

San Diego City College 2025-2026

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SAN DIEGO CITY COLLEGE

2025–2026 CATALOG

Fall 2025, Spring 2026, Summer 2026

1313 Park Blvd.,
San Diego, CA 92101
619-388-3400
www.sdcity.edu

Ricky Shabazz, Ed.D.
President

San Diego City College is accredited by the Accrediting Commission for Community and Junior Colleges (ACCJC) of the Western Association of Schools and Colleges, 428 J St., Suite 400, Sacramento, 95814, 415-506-0234, an institutional accrediting body recognized by the Council for Higher Education Accreditation and the U.S. Department of Education. GED is a registered trademark of the American Council on Education and may not be used or reproduced without express written permission of the American Council on Education.

Welcome to City College!

President's Message

Your Path to Success

Dear Students,

Welcome to San Diego City College!

San Diego City College has a rich history of serving students in our region for more than 109 years. We celebrate our diverse and vibrant student body and our caring and dedicated classified professionals and faculty. Although we come from different places, we join together here at City College focused on one goal: student success.

Whether your goals are to earn an associate degree or certificate, transfer to a four-year college or university, or acquire skills that will lead you to a better paying career, City College can help you there. All students are provided with a pathway to reach their academic, career, and life goals. What will your pathway be?

Take advantage of the many student resources that are available to you. As a student, you only have to ask for help to uncover all the tools that will help you develop an education plan, receive financial aid or scholarship dollars to help pay for your education, and set up time to meet with a counselor. Also, our faculty members are masters at helping our students build personal and professional networks to open up new journeys of exploration.

City College will help you reach your educational and career goals and prepare you for employment, family, and life. Enjoy the journey and I look forward to having you as a City College student.

Sincerely,

Ricky Shabazz, Ed.D.
President



Board of Trustees

Geysil Arroyo
President

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Executive Vice President

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Vice President for Diversity, Equity, and Inclusion

Mariah Jameson
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Vice President for Institutional Effectiveness

Student Members 2025–2026

The Associated Student Government (ASG) elections are held at the end of the Spring semester. The Associate Student Presidents at City, Mesa, Miramar, and Continuing Education colleges will collectively serve as the Student Trustee and sit at the Board of Trustees meetings on a rotating basis. The Associated Student Presidents, who take on the role of Student Trustee, are voted by the student body to serve yearly terms commencing June 1 through May 31.

Chancellor and Secretary to the Board
Gregory Smith

District Administration

Gregory Smith
Chancellor

Daniel Troy
Vice Chancellor, Finance and Business Services

Jared Burns, Ph.D., J.D.
Vice Chancellor, People, Culture, and Technology Services

Susan Topham, Ed.D.
Vice Chancellor, Educational Services

Joel L.A. Peterson, Ph.D.
Vice Chancellor, Operations, Enterprise Services, and Facilities

Jack Beresford
Vice Chancellor, Marketing, Communications, and Public Affairs

Michelle Fischthal, DBA
Vice Chancellor, Institutional Innovation and Effectiveness

Laurie Coskey, Ed.D.
Vice Chancellor, Development and Entrepreneurship

Margaret Lamb
Director, Chancellor's Office Operations

Insert New Photo Here

San Diego Community College District Board of Trustees: (from left, back row) Update names

San Diego City College Administrative and Supervisory Personnel

President	Ricky Shabazz, Ed.D.	Associate Dean, Strong Workforce	Sasha Knox, Ed.D.
Vice President, Administrative Services	John Parker, DBA	Director, Administrative Services	Roxann Solis
Vice President, Instruction	Matilda Chavez	Director, Development and Entrepreneurship	Erin Flanagan
Vice President, Student Services	Marciano Perez, Jr.	Director, Disability Support Programs & Services (DSPS)	Darren J. Walters, M.S., CRC Counselor
Dean, School of Information and Learning Technology	Robbi L. Ewell	Director, Enrollment Services	Dora Meza
Dean, Institutional Effectiveness	Susan Allen Murray, Ph.D.	Director, EOPS/CARE/NextUp	Mireya Gutierrez-Aguero
Dean, School of Arts, Humanities, Communications, and Telecommunications	Andrew MacNeill, Ed.D.	Director, Financial Aid	Wendy Wang
Dean, School of Behavioral and Social Sciences, and Consumer and Family Studies	Masahiro Omae, Ph.D.	Coordinator, Mental Health	Leslie Easton, LCSW
Dean, School of Business, Information Technology, Cosmetology, Engineering, and Trades	Jesse Lopez	Coordinator, MESA Program	Vacant
Dean, School of Mathematics, Sciences, and Nursing Education	Leticia Lopez, Ph.D.	Coordinator, Student Health Clinic	Vacant
Dean, School of Health, Exercise Science, and Athletics	Aaron Detty	Coordinator, Basic Needs	Nydia Dominguez
Dean, Outreach and Enrollment Services	Genevieve Esguerra	Coordinator, Undocumented Resource Center Coordinator	Magaly Corro Flores
Dean, Student Affairs	Adan Sanchez, Ed.D.	Director, Title III HSI STEM	Claudia Diaz Carrasco
Acting Dean, Student Development and Matriculation	Bernice Lorenzo, Ed.D.	Director, Tutorial Services	Anourack (Lance) Soukhaseum
Associate Dean, Nursing Education	Dometrives Armstrong, D.N.P., M.S.N., F.N.P., P.H.N., R.N.	Director, TRIO/Upward Bound	Elizabeth Vargas
		Coordinator, Affirmative Action Officer/Title IX Deputy	Amber Eckert
		Coordinator, CalWORKS	Mariam Mena
		Coordinator, CARE/EOPS	Margie Spikes-Tucker
		Coordinator, Career Center	Nesha Savage, Ed.D.

Co-Coordinator, Guided Pathways	Elsa Cristina Carrillo, Ed.D.	Supervisor, Digital Print Production/ Mail Room	Patricia Fernandez
Co-Coordinator, Guided Pathways	Vacant	Director of Campus Facilities and Operations	Jay Purnell
Coordinator, NextUp/EOPS	Oscar Duran	Supervisor, Facilities	Steven Devers
Acting Director, Outreach and Promise	Clarissa Padilla	Supervisor, Financial Aid	Alisia Rincon
Director, TRIO/Upward Bound	Elizabeth Vargas	Supervisor, Independent Learning Center (ILC)	Majeda Nasrawi
Coordinator, Job Placement	Roger Sanchez	Supervisor, Institutional Research	Brittney Carroll
Director, College Operations	Jay Purnell	Supervisor, Instructional Support, Library	Daniel Gonzalez
Coordinator, Occupational, Environmental Health & Safety	John Boyce	Supervisor, Office of Classroom Technology Management and Multimedia (OCTM)	Majeda Nasrawi
Coordinator, Professional Development	Marco Anzures	Acting Supervisor, Receiving/Stock Room	John Parker, DBA
Coordinator, San Diego Outreach & Promise Program	Vacant	Supervisor, Technical Support Group (TSG)	Al Cordeiro
Coordinator, Student Affairs	Lori Oldham	Supervisor, VA/Veterans Service Center	Carolina Guardado
Coordinator, Transfer Center	Dr. Erin Charlens	Supervisor, Welcome Center	Clarissa Padilla
Supervisor, Accounting/Student Accounting	Regie Balintec	Articulation Officer	Elizabeth Norvell
Supervisor, Admissions and Records	Alyssa Antonio	Public Information Officer	Cesar Gumapas
Supervisor, Business Office Support	Lydia Bakit		
Supervisor, Campus Events and Operations	Ginger Broussard		
Supervisor, Counseling/Evaluation	Josolyn Hill, Ed.D.		

Accreditation

San Diego City College is accredited by the Accrediting Commission for Community and Junior Colleges, Western Association of Schools and Colleges, 331 J St., Suite 200, Sacramento, CA 95814, (415) 506-0234, an institutional accrediting body recognized by the Council for Higher Education Accreditation and the U.S. Department of Education. Additional information about accreditation including the filing of complaints against member institutions, can be found on [ACCJC's](#) website under the Resources dropdown menu. City College is also approved by the California State Department of Education. In addition, certain programs at City College hold special accreditation:

The Associate Degree in Nursing program at San Diego City College is approved by the California Board of Registered Nursing and accredited by the Accreditation Commission for Education in Nursing ([ACEN](#)), 3390 Peachtree Road NE, Suite 1400, Atlanta, GA 30326.

City College is accredited by the Office of Private Postsecondary Education for the training of veterans, as

well as the U.S. Department of State and the U.S. Immigration Service for international student education. Courses paralleling university level work are accepted by the University of California, California State University, and by other universities and colleges.

Persons interested in the institution's accreditation and program approvals may review documents describing these activities in the President's Office. These documents will be available for such review at a mutually convenient time during regular business hours, and an appropriate interpretation of their contents will be provided if requested.

Disclaimer

The San Diego Community College District is governed by its Board of Trustees. No oral or written representation by any employee of the college is binding on the San Diego Community College District without the express approval of the Board of Trustees.

Academic Freedom & Freedom of Expression

(Board of Trustees Policy – BP 4030)

The San Diego Community College District is committed to an academic environment that embraces the principles of academic freedom and freedom of expression. This commitment is based upon the value that free expression is essential to excellence in teaching, learning, critical inquiry and service to the community.

You may view a full copy of the policy by accessing the [Board Policy website](#).

1. Academic Freedom

- a. Academic freedom affords the faculty the right to speak and write freely, without unreasonable restrictions or prejudices.
- b. In accordance with the doctrine of academic freedom, faculty have the following fundamental rights:
 1. Faculty primacy as a collective body in designing and approving curriculum and instructional methods regardless of delivery modality;
 2. Individual faculty member determination of instructional materials, course content, and presentation, and student evaluation methods, in concert with colleagues, so as to assure consistency of instruction; and academic standards;
 3. Individual faculty member freedom to discuss subject matter of the course, as appropriate to the standards of the discipline and academic community, even when that material is controversial;
 4. Individual faculty member authority to evaluate enrolled students on the basis of the academic merit of the students' performance;
 5. Individual faculty member freedom to choose of professional research topics and methods of investigation—subject to professional and peer-determined standards—as well as unconditional freedom to publish their work; and

6. Individual faculty member right to participate in curriculum review, accreditation processes, and other forms of participatory governance.

2. Freedom of Expression

- a. Freedom of expression affords the faculty, staff, and students the right to speak and write freely in accordance with the constitutional protections of free speech—without fear of retaliation. In particular:
 1. The District shall protect the rights of faculty to express their views in the classroom that pertain to class content. While it is understood that controversy is often at the core of inquiry, such controversy should be addressed in a mutually respectful manner;
 2. The District shall protect the rights of faculty, staff, and students to speak freely on matters of public concern;
 3. Faculty, staff, and students are free to explore a wide range of views and judge the merits of competing ideas;
 4. As outlined in board policies and administrative procedures, faculty, staff, and students have responsibilities which are based upon principles of fairness, integrity, confidentiality, safety, professionalism, and respect for others;
 5. Faculty, staff, and students have the right to join or form organizations in accordance with District policy and procedures; and
 6. Faculty, staff, and students have the right to participate in governance in accordance to District policy and procedures.

The San Diego Community College District

The San Diego Community College District is charged with educating all adults 18 years of age and older in the City of San Diego. The District provides education at several levels, from adult basic education through baccalaureate level college degree programs. The District has three fully accredited colleges, City, Mesa, and Miramar. The District also has a separately accredited noncredit Continuing Education Program. The District is governed by a Board of Trustees consisting of five voting members elected by the people of San Diego and a student trustee elected by District college students. The Chancellor is the Chief Executive Officer in charge of day to day operations.

Academic Calendar 2025-2026

Fall Semester 2025

16-WEEK
SEMESTER: Fall
Classes August 25, 2025 – December 20, 2025

April 11, 2025 Deadline to file an application for admission and receive a registration date and time for the Fall semester. Students who file an application after the deadline will register during open registration.

August 25, 2025 Residence Determination Date (Applies to All Sessions)

September 1, 2025 Holiday – Labor Day*

September 17, 2025 Constitution Day and Citizenship Day (Classes are in session)

November 11, 2025 Holiday – Veterans Day*

November 15, 2025 Last day to file a petition for graduation for an Associate Degree or Certificate of Achievement for Fall 2025 completion.

November 24 – 26, 2025 Classes not in session

November 27 – 28, 2025 Holiday – Thanksgiving*

December 22, 2025 – January 3, 2026 Winter Recess

Intersession 2026

4-WEEK
INTERSESSION: January 5 – 30, 2026

Spring Semester 2026

16-WEEK
SEMESTER: Spring
Classes February 2, 2026 – June 1, 2026

October 17, 2025 Deadline to file an application for admission and receive a registration date and time for the Spring semester and Intersession. Students who file an application after the deadline will register during open registration.

January 19, 2026	Holiday – Martin Luther King Day*
February 1, 2026	Residence Determination Date (Applies to all sessions including intersession)
February 13, 2026	Holiday – Lincoln Day*
February 16, 2026	Holiday – Washington Day*
March 30 – April 2, 2026	Spring Recess – Classes not in session.
April 3, 2026	Holiday – Cesar Chavez Day*
April 30, 2026	Last day to file a petition for graduation for an Associate Degree or Certificate of Achievement for Spring 2026 completion.
May 25, 2026	Holiday – Memorial Day*

Summer Semester 2026

Summer Classes	June 2, 2026 – August 8, 2026
Primary 8 Week	June 15, 2026 – August 8, 2026
April 10, 2026	Deadline to file an application for admission and receive a registration date and time for Summer semester. Students who file an application after the deadline will register during open registration.
June 1, 2026	Residence Determination Date (Applies to all sessions)
June 19, 2026	Holiday – Juneteenth*
July 3, 2026	Holiday – Independence Day* (July 4 Holiday Observed – Independence Day)
July 31, 2026	Last day to file a petition for graduation for an Associate Degree or Certificate of Achievement for Summer 2025 completion.

* No Saturday or Sunday classes after a Friday holiday. No Sunday classes before a Monday holiday. Note: Holidays apply to all sessions.

General Information

History

San Diego City College is a public, two-year community college administered by the San Diego Community College District. Serving as the educational cornerstone of downtown San Diego, the college comprises 60 acres and is 1/5 of the downtown footprint. The college offers more than 200 majors and certificate programs and 1,800 classes each semester to more than 13,000 students.

Chronology

1914

City College was the first community college in San Diego (San Diego Junior College) with 34 students and 4 instructors. City College was the fifth community college established in California.

1921

City College moved from the high school to share facilities with the State Normal School, the four-year teachers' college, which became San Diego State University.

1939

San Diego Evening Junior College was created by splitting the institution into two entities, day and evening. With the industrial growth in San Diego, the Evening College was needed to meet the demand for college courses for daytime working people.

1946

City College moved back to San Diego High School and reorganized into three branches: San Diego Vocational High School, San Diego College Arts and Sciences, and San Diego Evening Junior College.

1953–54

The first parcel of land, a single city block between Russ Boulevard and A Street, from 14th to 15th Streets, was purchased for the permanent home of what is now San Diego City College. The first buildings constructed were the "A" and "T" buildings.

1970s

Increasing enrollment resulted in a major expansion project bounded by Russ Boulevard, 17th, 12th and C Streets. The "L," "C," "S," "M," "E," "D" and "F" buildings were constructed.

1972

San Diego voters authorized a separate Community College District.

1988

A Facilities Master Plan was developed to recommend modifications to the existing facility, to meet current and future needs.

1989

City College celebrated its 75th Anniversary.

1992

The new 3,000 sqft. Fitness Center opened with full fitness and exercise facilities.

1998

City College leased to San Diego Unified School District the property on which Garfield High School and a 420-space parking structure is built. City students shared use of the parking and the College can offer classes in the facility.

2000

Construction completed on the 8,000 sqft. Educational Technology Center. The ETC is fully equipped with state-of-the-art media and conferencing equipment.

2002

The 67,000 sqft. Learning Resource Center (LRC) replaced the 30-year-old library. The facility offers the most advanced research and learning tools available with 300-internet connected computers, multiple electronic databases, plasma displays, a collection of more than 67,000 books and over a thousand periodicals. The three-level LRC also houses the Office of Classroom Technology and Multimedia Center, the Independent Learning Center, and CitySITE – a center for faculty and staff development.

2005

A new Facilities Master Plan was approved by the Board of Trustees and projects a 20-year build-out to accommodate 25,000 students.

2005

The 2,000-seat, 55,000 sqft. Harry West Gymnasium "P" building opened. Dedicated to beloved Coach West, students enjoy three regulation basketball courts, six badminton courts, three volleyball courts, intercollegiate team rooms, workout facilities, and new classrooms.

2007

Eight high-tech classrooms added to the LRC lower level, with additional offices and meeting space.

2009

The 27,800 sqft. Academic Success Center "L" building opened to provide a one-stop service area for students, including: Tutorials, Math and English Centers, and the EOPS, MESA (Math, Engineering, & Science Achievement), New Horizons, Puente, Umoja, and CalWORKs Programs.

2010

The new 88,000 sqft. "V" building CTC – Career Technology Center – opened. This five-level building at 16th & C Streets houses Cosmetology, Nursing, Photography and Digital Arts, a Student Gallery, the College Police and an 11-story 700-car parking structure.

2013

The 66,000 sqft. Mathematics and Social Sciences "MS" building opened. This five-story facility houses Psychology, Sociology, Anthropology, Alcohol and Other Drug Studies, Human Services, Peace Studies, Gender Studies, the Institute for Human Development, the Corporate Education Center and the District's Military Education program. A seven-story, 400-stall parking garage is adjacent to the building.

2014

In spring, the 98,000 sqft. Life Sciences and Physical Sciences "S" building opened. The four-story building includes classrooms, labs, an outdoor teaching garden, a rooftop observation deck and a planetarium.

In fall, the 128,000 sqft. Arts & Humanities and 62,000 sqft. Business and Technology buildings welcomed new students for classes in the Visual Arts, English, Speech, Foreign Languages, Business Studies, and Computer Systems. A new art gallery and sculpture garden hosts fine arts exhibits and events.

2015

The 15,000 sqft. "M" building renovation provided new homes for the Office of Student Affairs, and a working and gathering space for Associated Students Government and student clubs. Facilities operations are located on the lower floor.

2016

In spring, the 31,155 sqft. Center for the Media and Performing Arts "C" building opened with contemporary new spaces for Dance, Drama & Theater, Music, and Radio, TV & Film programs. Students now enjoy a cutting-edge, fully digital TV studio and recording studios for producing its weekly, student produced "Newscene" news show.

2018

In Fall 2018, the "A" building opened after an extensive remodel with an emphasis on Student Services.

2021

In spring, construction of the 10,000 sqft. Early Education Center was completed. The new space includes classrooms for infant, toddler, and preschool children; faculty offices; a kitchen; lobby/reception area; and a faculty conference room. Other features include a 14,000 sqft. playground space, equipment storage, and a parking/drop off area.

San Diego City College Foundation

Foundation Board**Officers****Chairperson**

Gerald A. Ramsey

Vice-Chairperson

Delonda Peppers

Executive Director

Vacant

Development and Entrepreneurship Director

Erin Flanagan

Treasurer

Roxann Solis

Secretary

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Arthur Benjamin

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Sheila Davis

Joseluis Frausto

L. James Haddan

Maurice Lyles

Janene McIntyre, J.D.

Lance Mueller

John Parker, DBA

Delonda Peppers

Sylvia Ramirez

Gerald Ramsey

Lupe Sandoval

Arthi Selvaraj

Ricky Shabazz, Ed.D.

Roxann Solis

Yolanda Tanner

Wendy Wang

Statement of Philosophy

The general education program at the colleges in the San Diego Community College District is designed to broaden students' knowledge and their understanding of methods of gaining knowledge in a variety of disciplines and to develop students' abilities in critical thinking, in oral and written communication, and in mathematics.

The awarding of an Associate Degree symbolizes an attempt on the part of the college to lead students

through patterns of learning experiences designed to develop an awareness of other cultures and times; to achieve insights gained through experience in thinking about ethical problems; and to develop the capacity for self-understanding. In addition to these accomplishments, students should possess sufficient depth in some field of knowledge to contribute to lifetime interest.

Institutional Learning Outcomes

(also referred to as Institutional Competencies)

The Institutional Student Learning Outcomes (ISLOs) for San Diego City College reflect the college's General Education philosophy and describe the knowledge, skills, abilities, and attitudes students will develop as a result of their overall experience at SDCC. Achievement of ISLOs is marked by the successful completion of an Associate's degree, completion of transfer curriculum and/or a Certificate of Completion. A single course is not expected to meet all the ISLOs; rather, it is the successful completion of a combination of courses in a specific program of study that enables the student to achieve the ISLOs.

SDCC has identified the following ISLOs, based upon established Institutional Core Competencies:

1. Communication/Interpersonal Skills

Students will be able to communicate effectively in a variety of settings using oral and written communication modalities.

2. Critical Thinking

Students will be able to apply critical thinking skills in order to analyze data, text and issues.

3. Analysis/Computation

Students will be able to apply mathematical concepts to perform computations and analyze and interpret data.

4. Cultural Sensitivity/Global Awareness

Students will be able to successfully interact with individuals representing a wide range of backgrounds, analyze varying cultural beliefs and behaviors, and identify social, political and economic issues relevant to the local community, the state, the nation, and the world.

5. Information Management/Literacy

Students will be able to obtain data from various sources, as well as organize, process and analyze data for relevancy.

6. Personal Responsibility

Students will be able to demonstrate self-awareness and navigate effectively between one's own value system, professional obligations and responsibilities as a member of society.

7. Civic and Environmental Responsibility

Students will be able to relate the natural environment to human health and happiness and

evaluate the effect of human activity on the welfare of the global environment.

Mission

San Diego City College has as its highest priority student learning and achievement. The college provides lower division and general education courses that lead to certificates, associate degrees or transfer to a four-year college or university; career technical education programs that meet specific industry needs, upgrade the employment skills of students and fulfill licensing requirements of the state of California as well as contribute to the economic development of our region; basic skills instruction to assist all students in meeting their educational goals; and essential student support services for all students.

Values

San Diego City College is a multicultural institution committed to providing open access to all who can benefit from instruction and to meeting the diverse and ever-changing educational, cultural, and economic needs of the urban core and surrounding communities of San Diego. We are committed to the tradition of academic freedom and responsibility, to employee empowerment, and to maintaining a climate that promotes learning, understanding and respect for students, faculty, staff, community, and the environment. The following are core tenets of our value system:

- The development of informed, active individuals who will be engaged in the global community, lifelong learners, social justice advocates, and literate in information technology;
- Institutional community involvement, community development and community service;
- Equity, inclusiveness and diversity in all of its manifestations;
- High quality instructional programs emphasizing creative and critical thinking;
- Essential student support services, including co-curricular and cultural activities;
- Environmental sustainability and a campus culture of conservation; and
- A continuous campus-wide cycle of assessment and program review with integrated planning and resource allocation.

Institutional Priorities

San Diego City College's Mission Statement is central to planning and decision-making. Derived from the mission

statement, there exists more specific college goals, our Institutional Priorities. All ongoing and new initiatives are linked to these priorities. There currently are eight institutional priorities:

- **Student Success**
 - Support improved student learning, achievement of student learning outcomes, course completion, certificate and degree completion, transfer rates, and workforce competencies.
- **Innovative Approaches**
 - Provide state-of-the-art general education, transfer, and career technical programs by utilizing current technologies, innovative teaching and learning approaches, and delivery systems, and academic and student support services which include essential student support services, including co-curricular and cultural activities.
- **Equity, Inclusiveness, and Diversity**
 - Strengthen and support an inclusive and diverse campus culture which enhances student, faculty, and staff success and *closes equity gaps*. *City College promotes lifelong learning, social justice advocacy, and information technology literacy.*
- **Collaborative & Outreach Ventures**
 - Develop collaborative and outreach ventures that enhance student learning within the college, district and community, public and private agencies, businesses, and industry—locally, nationally, and globally.
- **Environmental Stewardship**
 - Strengthen a measurable environmental stewardship effort that implements sustainable practices and educates the campus community.
- **Institutional Accountability**
 - Demonstrate accountability through the integrated process of assessment, program review, planning, resource allocation, accreditation, and on-going evaluation.

- **Strategic Planning**

- Links campus planning to District planning efforts.
-

Student Learning Outcomes

Student learning outcomes are defined for each program. Students should be aware that course outcomes link to the larger institution via program outcomes which map to institutional learning outcomes, institutional priorities and San Diego City College's mission.

Disclaimer

While every reasonable effort has been made to ensure that statements in this catalog are accurate, it must be understood that the information contained herein is subject to change or elimination without notice by the administration of the San Diego Community College

District. Students should consult the appropriate campus or department for current information, as well as for any special rules or requirements imposed.

Admissions and Registration

Student Success and Support Program

The goals of the Student Success and Support Program (SSSP) are to ensure that all students complete their college courses, persist to the next academic term, and achieve their educational objectives through admissions, orientation, assessment, educational planning with a counselor, and student follow-up.

Steps to Student Success

Step 1 – Admission Application

Step 2 – Apply for Financial Aid

Step 3 – Orientation

Step 4 – Placement

Step 5 – Educational Plan

Step 6 – Register and Pay

Step 7 – Follow up with a counselor

These services have been designed especially for students who intend to earn a certificate or degree at the college or to transfer to a four-year college or university. However, the services are available to all students admitted to the college, and all students are encouraged to participate in the various services of the program.

Step 1-Admission Application

Admission is open to anyone who meets one of the following criteria:

- Persons who possess a high school diploma or California high school proficiency exam certification or a high school equivalency certificate.
- Persons 18 years of age or older or emancipated minors who do not possess a high school diploma or equivalent may be admitted by the college under provisional admission status.
- High school students requesting concurrent enrollment may be admitted as “special part-time” students subject to the following criteria:
 - a. Students must have completed the 10th grade.
 - b. Students may enroll in fewer than 12 units and have their enrollment fees waived.
 - c. Students will be assessed ALL enrollment fees if enrolled in 12 or more units for classes taught on college campus.
 - d. All holds must be cleared prior to registration.
 - e. High school students must satisfy course prerequisites and eligibility requirements.
 - f. Enrollment in Physical Education classes will not be permitted.
 - g. The course is advanced scholastic or technical (college degree applicable).
 - h. The course is not available at the school of attendance.
 - i. Students will be given college credit for all courses. Grades will be part of the student’s permanent college record.
 - j. Students must maintain a 2.0 grade point average each semester in all college work.
 - k. If the number of units of W, I and NP reaches 50%, in any semester or session, the student will be academically dismissed. Students whose grade point average falls below a 2.0, or who do not complete more than 50% of all units attempted, will not be permitted to re-enroll without approval from a college counselor.
- Persons who are under 18 years of age who do not have a high school diploma and are not enrolled in a high school may be admitted as a special full-time student pursuant to Education Code §48800.5 subject to approval of the high school governing board and the college President where the student is planning to attend. Special full-time students will be admitted under provisional admission status.

- Persons who do not meet one of the admission criteria stated above will not be admitted under any circumstances.

In accordance with §76038 of the California Education Code, students seeking admission who have been previously expelled from a California community college within the past five years, or who are currently in the process of a formal expulsion hearing for any offense listed in *AP 5010, Student Admission Status, 2.a.1-7*, are required to inform the District. Admission eligibility shall be determined in accordance with *AP 5010, Student Admission Status*.

Important Note: All new students must file an application for admission. Students who have previously attended, but have not been in continuous attendance for one year must file a new application for admission.

Apply Online

Applications for admission to San Diego City, Mesa, and Miramar Colleges are available online. Students access the [online application](#).

Step 2-Apply for Financial Aid

To apply for financial aid applicants must complete the Free Application for Federal Student Aid (FAFSA), or a California Dream Act application for all financial aid, including the California College Promise Grant – CCPG. To complete your FAFSA, visit the [FAFSA website](#). To complete a California Dream Act application, visit the [California Student Aid website](#). FAFSA Application materials are available on October 1st for the following academic year. The priority filing deadline for aid is April 15th. Students filing their application by this date will be

Social Security Number

Your Social Security Number (SSN) or Individual Tax Identification Number (ITIN) is required for Federal and State reporting, and for students applying for Financial Aid. It is maintained in a secure manner and WILL NOT be visible or released to third parties for identification purposes for any reason.

Section 483 and 484 of the Higher Education Act of 1965, as amended, also gives the Financial Aid Office the authority to collect your SSN. The U.S. Department of Education uses your Social Security Number to verify your identity and retrieve your records. Providing incorrect information may result in penalties from the IRS.

All students will be assigned a unique 10-digit Student Identification number upon successful submission of their application that will be required to conduct all college business.

Important Reminder

Every male citizen of the U.S. and male immigrant residing in the U.S., ages 18 through 25, must register with the Selective Service.

considered first in the award process. Deadline to apply: The Central Processing System (CPS) must receive your application by your last day of classes for the term or June 30, 2023 whichever date comes first. The Deadline for Cal Grant application is March 2nd.

Step 3-Orientation

The orientation provides important information to students about the programs and services available at the college as well as strategies for student success. Orientation includes program planning. Non-Exempt students who have been admitted to the college are

expected to attend an assessment/ orientation session before registering for classes. Get started with the [New Student Orientation](#).

Step 4-Placement

Placement is a process that is designed to assist students in determining which English or English Language Acquisition (ELAC) and math courses they should start with, specifically identifying milestones in

each of these areas. Placement also helps students in meeting course prerequisites. Students may also meet course prerequisites based on other factors such as

English or ELAC and math course completion or other standardized tests.

Placement via College Application

Students who have graduated from a U.S. high school will receive the placement levels based upon high school performance information that is provided on the application for admission. The college application (CCCApply) will identify English and math courses that students can enroll in using prior high school history. Students will report cumulative, unweighted high school GPA, courses completed, and grades received in English and math courses.

Placement via Placement Assistant

Students who have graduated from a U.S. high school more than 10 years ago, completed the GED, or HiSet exam are eligible for this assessment. The Placement Assistant will identify courses that students can enroll in using prior academic history. Students will report cumulative, unweighted high school GPA, courses completed, and grades received in English and math courses. Based on the information reported, students will receive an English and math placement milestone. Students who graduated from a foreign high school should contact the Assessment Center for guidance.

English Language Acquisition (ELAC) Assessment

The ELAC guided self-placement process is designed for students primarily educated outside of the United States in a language other than English. Students who have completed a United States high school diploma or equivalent shall receive English and Math placement milestones.

Students who feel they may benefit from taking an English Language Acquisition class (ELAC) before a college-level English class (ENGL) are asked to use the [guided self-placement tool](#). Students will receive an ELAC placement milestone of L19, 20, 30, or 40, to help determine which ELAC class students should enroll.

Please contact your campus Assessment Center for guidance.

San Diego College of Continuing Education (SDCCE) students should use the SDCCE to College bridge as a guide to which ELAC and English courses they may be eligible to enroll in. They should then take the ELAC guided self-placement tool to receive an ELAC placement milestone.

Students who believe they have sufficient grounds may challenge a prerequisite, corequisite, or limitation on enrollment. A student may obtain a [Petition to Challenge form](#).

Continuing Education (CE) to College Bridge

CE Course/Course Completion Certificate	Enroll in College Course/ Level Recommendation
ESLA 431 Beginning Literacy 1	
ESLA 432 Beginning Low 2	
ESLA 433 Beginning High 3	ELAC 15 or ELAC 23 and ELAC 25
ESLA 434 Intermediate Low 4	ELAC 23 and ELAC 25 or ELAC 33 and ELAC 35
ESLA 435 Intermediate High 5	ELAC 35 or ELAC 145
ESLA 436 Advanced Low 6	ELAC 145
ESLA 437 Advanced High 7	ENGL 101X (ENGL 101/31) or ENGL 105X (ENGL 105/31)

Approved High School Senior Year-Long Courses

English:

- Expository Reading & Writing Course (ERWC)
- IB English
- AP Language and Composition
- AP Literature and Composition
- Weighted Honors English

Math:

- Trigonometry
- Math Analysis
- Pre-Calculus or Calculus
- AP Calculus AB or BC
- AP Statistics
- AP Physics

A qualifying score from the College Board Advanced Placement English or Math Exam may be taken directly to the college Counseling office for consideration. Please refer to the College Catalog for AP exam score requirements.

Step 5-Educational Plan

An education plan is an important tool to assist students in successfully attaining their goals without wasted time and effort. Counseling and career planning services are available to help students make informed choices concerning the programs and courses available.

The education plan is an agreement which contains the official requirements for graduation and/or transfer. Important Note: All official transcripts of prior college work must be on file and evaluated before an official education plan can be prepared. Transcripts from foreign institutions are not required. See the [Graduation section](#) for graduation filing requirements.

Education plans outline a suggested pathway for a student to take based on their major, transfer plans, or other pertinent objectives. These plans allow students to determine how long it will take to complete a program of study and to be sure that all program requirements can be met within a particular period of time. The student should review their education plan periodically with a counselor as goals or objectives change.

Career, interest, and aptitudes assessments are available for students who wish to explore other options or who are undecided on their educational goal.

Step 6-Register and Pay

Students who submit an application before the application deadline will be able to register on or after their assigned enrollment date and time. Enrollment appointments are emailed and posted in the [mySDCCD portal](#). Students who submit an application after the deadline may register during open enrollment. Online Registration Steps and Tips can be found [online](#).

Students are responsible for ensuring that all fees, including the Health Fee (which is not covered by the California College Promise Grant – CCPG waiver) are paid in full by the deadline or they may be dropped for nonpayment. Pay online or in person at the Accounting Office.

Step 7-Follow up with a counselor

Follow-up services are available to all students as part of the college's commitment to student success. These services include a periodic review of student progress and education plans to assist students in reaching their educational goal. Students who need additional support services will be referred to those services.

Exemptions

Students who meet the following criteria are exempt from components of the matriculation process:

1. Admission Application

- No exemptions

2. Apply for Financial Aid

- No exemptions

3. Orientation

- Students with the following educational goals:
 - Maintenance of a certificate or license, educational development, or completion of credits for high school diploma
 - Students who have an associate degree or higher
 - Students concurrently enrolled at a four-year college or university
 - Students concurrently enrolled in high school

4. Assessment

- Students with the following educational goals:
 - Maintenance of a certificate or license, educational development, or completion of credits for high school diploma

- Students who have an associate degree or higher
- Students concurrently enrolled at a four-year college
- Students concurrently enrolled in high school

5. Educational Plan

- Students with the following educational goals:
 - Maintenance of a certificate or license, educational development, or completion of credits for high school diploma
 - Students who have an associate degree or higher
 - Students concurrently enrolled at a four-year college
 - Students concurrently enrolled in high school

6. Register and Pay

- No exemptions

7. Follow up with a counselor

- No exemptions

Registration

With the exception of Special-Admit High School students, all students receive a registration appointment. Students can enroll in classes on or after this date and time within the San Diego Community College District's online registration system, mySDCCD. Special Part-Time High School students must complete the [Supplemental Application for High School Students](#).

By using the online class schedule and the online registration system (my.sdccd.edu), a student can enroll in any available course offered at ECC, City, Mesa, or Miramar Colleges. [Instructions](#) for the class schedule and online registration are available on campus and online.

The online services offered in my.sdccd.edu include:

- Enrollment – add, drop & withdraw from classes

- Student's current class schedule and waitlisted classes
- Pay fees and view payment records
- Enroll in a Payment Plan
- Purchase a parking permit or Bus Pass
- Purchase an Associated Students Membership
- Wait List activities – adding, dropping and view
- Wait List status
- Pass/No Pass grading options
- View Financial Aid
- View attendance hours for tracking classes
- View Milestones
- Academic deadlines and calendar

Important Note: You may only access one semester at a time.

The portal also grants access to:

- Grade information
- Academic history
- Petitions to graduate
- Ordering transcripts
- View 1098-T tax information

My Planner

Students now have access to My Planner, a tool to help you select classes from your education plan (academic requirements) and assign them to a specific term(s)/semester(s). Log into the mySDCCD Student Portal, under the My Classes banner, click on the **My Planner** link to get started.

Audit Policy

Auditing courses is not permitted under any circumstances. Students must be officially enrolled in all classes which they attend.

Online Class Restrictions

In accordance with federal regulations City, Mesa, and Miramar colleges may not permit students residing outside of California to enroll in online classes without approval of the state where the student resides. Students residing in a non-approved state/territory are not permitted to enroll in online classes and will be dropped. The following is an [up-to-date list of restricted states and territories](#).

Responsibility for Maintaining Accurate Registration

It is the student's obligation to add, drop, or withdraw from classes before the deadlines stated in the class schedule. This applies even if the student has never attended class. Any student who anticipates difficulty in paying fees should check with the Financial Aid Office about eligibility and sources of assistance. Registration may be canceled for nonpayment of fees.

Time/Schedule Conflicts

- Students may not register for classes with times that overlap (includes 10 minute passing period).
- Students may not enroll in two classes of the same subject and course number if the start and/or end date of one class, overlaps with the other class.

Online Class Schedule

Up-to-date class schedule information and course descriptions for each college and CE campus are available [online](#). A search engine allows students to search for classes by many factors including: academic subject, time and day, Instructor or a keyword.

Adding Classes

Students may add classes online until the deadline date published in the schedule of classes. Students will not be allowed to add classes beyond the published deadline.

To add a class once the semester has begun, students must obtain a permission number from the instructor, then must process and pay for the added class online or in person at the Accounting Office, K1-205.

Students are not officially enrolled until the permission number is processed through the online registration system and fees are paid in full. Permission number for Special Admit part-time high school and Joint Diploma students must submit an online form: [Supplemental Application for High School Students](#) and will be registered by the college Admissions Office prior to the add deadline.

If an instructor finds that a student has given his or her permission number to another student, the instructor should administratively drop the student who was not issued the permission number.

Class Attendance

Students who do not attend the first class meeting may be dropped by the instructor. Students, who cannot attend because of illness, religious observation, or a serious problem, should notify the instructor. Students who miss the first class meeting and do not plan to attend must log-in online and drop the class to avoid receiving an "F" grade.

Important Note: It is the student's responsibility to drop by the published deadlines.

Drop/Withdrawal from Classes

Students may drop or withdraw from classes online until the published deadline dates. Deadline dates are available in mySDCCD under "My Classes", click the 'Class Nbr' and select 'Deadline Dates', or find your class in the [class schedule](#) and select the class 'Dates'.

- It is the student's responsibility to drop all classes in which he/she is no longer participating.
- Students who remain enrolled in a class beyond the published withdrawal deadline, as stated in the online class schedule, will receive an evaluative letter grade.

- Final grades may be affected by attendance as described in the class syllabus.

Drop—ending enrollment in a class prior to about the 20% point of class meetings. A drop is not recorded on the student’s academic record.

Withdrawal—ending enrollment in a class between about the 20% point and up to about the 60% point of class meetings. A withdrawal is a permanent symbol on the student’s academic record and is included in progress probation and dismissal determination.

Administrative Drop

Registration may be administratively canceled for the following reasons:

1. Failure to pay all mandatory fees in accordance with the fee payment schedule;
2. Using a permission number issued to another student;
3. Failure to meet the terms and conditions of a fee deferment or payment plan;
4. Failure to meet academic or progress standards;
5. Denial of a “Petition to Challenge a Prerequisite”;
6. Failure to meet a prerequisite or co-requisite Requirement;
7. Enrolling in an online course while residing in a state not approved by the department of education;
8. Students who do not show proof of immunizations before beginning lab hours at the Child Development Center.

Exclusion from Classes

A student may be excluded from class or the college whenever the student:

1. Exhibits behavior which interferes with the educational process. An instructor may remove a student from two class sessions for disruptive behavior. (Refer to BP 5500: Student Rights, Responsibilities, Campus Safety and Administrative Due Process); or
2. Is found to have a communicable disease which requires isolation pursuant to a directive from the County Department of Public Health.

Study Load Limit

The maximum study load for a semester is 20 academic units including Exercise Science activity units.

Students are reminded that each unit of credit is calculated to involve a total of at least three hours of classroom and outside time per week. Thus, a 20-unit study load represents a minimum 60-hour work load each week. Students working full-time are advised NOT to attempt a full-time college program.

Twelve units of credit is considered a minimum full-time program during a semester; nine units is three-quarters time, and six units, half-time.

The maximum study load for summer session is 12 academic units including Exercise Science activity units.

Six units of credit is considered a minimum full-time during the summer session; four units is three-quarters time, and three units, half time.

Important Note: Study load requirements may vary at each college for financial aid purposes. Inquire at your college Financial Aid Office for detailed information.

Basic Skills Unit Limit

Title 5, 55035 states: “...no student shall receive more than 30 semester units of credit for basic skills coursework.” Registration will be blocked prior to students reaching this limit so that students can meet with a counselor to ensure that they are successful when this unit limit is met. Students with a verified learning disability are exempt from this limitation (contact the DSPS office for more information).

Priority Enrollment System

Consistent with state law and the goal of providing a fair and equitable registration system for all students, the San Diego Community College District has established the following priority system for assigning registration appointments.

Priority Groups

Group 1

- Active Military & Veterans who meet the eligibility criteria*, Current and Former Foster or Homeless Youth**, CalWorks, EOPS and DSPS students, Intercollegiate Athletes***, Apprenticeship Students****, Parents of children under the age of 18 (effective Spring 2024). Students who have not completed all three services: orientation, assessment, and have an education plan are placed at the end of this group.

Group 2

- Continuing Students who have completed orientation, assessment, and have an education plan (Abbreviated education plans only grant a student priority for 2 semesters.)

- Continuing CE Advantage Students

Group 3

- New & Returning Students who have completed orientation, assessment, and have an education plan (Abbreviated education plans only grant a student priority for 2 semesters.)

Group 4

- Continuing, New & Returning Students who have not completed all three services: orientation, assessment, and have an education plan.

Group 5

- Students with 100+ Units (Does NOT include Basic Skills units.)†

Group 6

- Students with a Baccalaureate Degree†

Group 7

- Students who are academically dismissed or dismissed for lack of progress or who have not yet returned to good academic standing†.

Group 8

- Students concurrently enrolled in High School

Within each priority group above, students are prioritized according to cumulative units, including transfer units.

Range

50.0 – 72.0 units

30.0 – 49.9 units

15.0 – 29.9 units

00.0 – 14.9 units

72.1 – 89.9 units

90.0+ units

* Students who are Active Duty Military or Veterans, discharged within the past fifteen (15) years, may be eligible for up to 4 years of priority registration. Students should contact the Admissions Office for additional information. A military ID card or DD214 will be required for verification.

** Current and Former Foster or Homeless Youth under 25 years of age may be eligible for priority registration. For information, contact the College Admissions Office or Financial Aid offices.

*** Intercollegiate Athletes participating and registered on a team roster may be eligible for priority registration. For information, contact the College Athletic Department.

**** Students enrolled in a restricted apprenticeship program may be eligible for priority Registration. Contact the College Admissions Office or the department of the Apprenticeship Program.

† Active Military & Veterans, Current and Former Foster or Homeless Youth, Intercollegiate Athletes, Apprenticeship, Parents, CalWorks, DSPS & EOPS students will receive first priority within this group.

Change of Name, Mailing or Email Address

All students must report immediately any change of address to the college Admissions Office or through the [mySDCCD portal](#). Failure to provide this information will result in delays in registration, and other important information sent by the college. Name changes must be supported with legal documentation and a picture ID and reported in person at the Admissions Office.

Prerequisites, Corequisites, Limitations on Enrollment and Advisories

Plan ahead! All prerequisites, corequisites, and limitations on enrollment stated in the course descriptions listed in this catalog will be strictly enforced at the time of registration. Students who do not meet the prerequisite requirements according to college records will not be permitted to register for the course. Students who believe they have met the prerequisite at another institution are strongly advised to have all transcripts of prior college work evaluated and on file

well in advance of registration to minimize registration delays.

Important Note: Unofficial transcripts are accepted for prerequisite clearance.

Students should plan their schedules early and see a counselor for assistance.

Prerequisites

Prerequisites are courses that must be completed with a "C" or better prior to registration in a specific course.

Corequisites

Corequisites are courses that are required to be taken the same semester as another course.

Limitations on Enrollment

Limitations on Enrollment are other restrictions that are stated in the course description such as "not open to students with credit in..."

Advisories

Advisories are departmental recommendations to be completed prior to enrolling in the course. Advisories do not prevent a student from enrolling, but are strongly

encouraged by the department for a student's academic success.

Challenge Procedures

Students who believe they have sufficient grounds may challenge a prerequisite, corequisite, or limitation on enrollment in a specific course (the student does not get units for a challenged class).

A student may obtain a petition to Challenge online via the mySDCCD Support Desk and then selecting the [Petition to Challenge form](#). The completed petition with supporting documentation must be filed in the Admissions Office at least 10 working days prior to the start of the primary term/semester. Contact the Admissions Office for additional information. For credit by examination, please refer to applicable section.

Residency

Residency is determined when a student applies for admission to the College. The following paragraphs summarize the rules and regulations related to student residency for tuition purposes. Details are found in the CA Education Code Section 68000, Title 5, sections 54000-54072.

Residency Status

Every person who is married or is age 18 or older and under no legal restriction may establish residence. Certain minors may also establish residence.

- A California "resident" is a person who has resided in the state for more than one year prior to the residence determination date and shows "intent" to make the state of California their permanent residence.
- An undocumented student is precluded from establishing residency. Restrictions also apply to some visas; please see the Admissions Office.
- The residence determination date is the day immediately preceding the first day of classes for each semester.

Factors Considered to Determine Residency

No one factor determines residency. The following factors are called "indices of intent." They, along with a person's presence in California, are among the factors considered in determining California residency:

- Filing California state and federal tax returns with W-2 form (required)
- Possessing a California driver's license and a vehicle registered in California
- Voting in California
- Owning residential property in California for personal use
- Being licensed to practice a profession in California
- Having an active checking and/or savings account in a California bank
- Showing California on military records (Leave and Earnings Statement)
- Possessing a marriage license or a divorce decree issued in California
- Having paid nonresident tuition in another state

Exceptions to Residency Requirements

Several exceptions to the residency rules apply. They include, but are not limited, to the following:

- Active duty military personnel and their dependents stationed in California
- Active military and dependents previously stationed in California, who are currently enrolled, and subsequently receive orders to change their duty station to out-of-state
- A Veteran or dependent using or intending to use their GI Bill® benefits while currently living in California and has enrolled at San Diego City, Mesa or Miramar College. "GI Bill®" is a registered trademark of the U.S. Department of Veterans

Affairs (VA). Information on the clause is located on the GI Bill Trademark form included in the application.

Nonresident Students

A student's residency status is determined at the time of application. Nonresident students must pay nonresident tuition in addition to the enrollment fee and other fees for credit classes. Tuition must be paid in full at the time of registration.

Assembly Bill (AB) 540

Assembly Bill 540 exempts nonresident students who meet the following criteria, from paying nonresident tuition:

- have attended a California school full-time for three or more years.
- have received a high school diploma or equivalent, or an Associate Degree or fulfillment of transfer requirements for CSU/UC Institutions.
- have registered as an entering student at, or concurrent enrollment at an accredited institution of higher education in California.

Students who meet the criteria must file an affidavit with the college stating that he or she has filed an application to legalize his or her immigration status.

Incorrect Classification

A student incorrectly classified as a California resident is subject to reclassification as a nonresident and payment of all nonresident tuition. If incorrect classification results from false or misleading facts, a student may be excluded from classes or the college upon notification.

Reclassification

Reclassification to resident status must be requested by the student. Financial independence during the current year and preceding two years will be considered at the

time the student requests reclassification. Information regarding requirements for reclassification is available in the Admissions Office.

Tuition may not be refunded to a student classified as a nonresident due to lack of documentation if, at a later date, documentation is presented for a previous semester.

Appeals

To appeal a residency determination decision, a student may file a Residency Determination Appeal form with the college Admissions and Records Supervisor.

Limitation of Residency Rules

Students are cautioned that this summary of rules regarding residency determination is by no means a complete explanation of their meaning or content.

For further information, contact the residency clerk in the Admissions Office. Changes may have been made in the statutes and in the regulations since this catalog was published.

False Information

Providing false information necessary for establishing residency will result in disciplinary action up to and including dismissal from the college. Contact the Admissions Office for more details.

International Students

(F-1 Visa Students)

San Diego City College welcomes applications from nonimmigrant F-1 visa students. Acceptance into a program at the college is necessary before U.S. Citizenship and Immigration Services (formerly INS) Form I-20 (certificate of eligibility) is issued by the college Admissions Office located in Enrollment Services. The decision to grant an acceptance will be

based on all evidence received prior to the deadlines. The application forms are available [online](#).

International Student Admissions Office A-241

San Diego City College
1313 Park Blvd.

San Diego, CA 92101

619-388-3476

General Information

1. An international student must register for and maintain a minimum of 12 units each semester while at Mesa College. Part-time F-1 status will not be approved. The registration status and academic performance of all international students will be monitored by the college.
2. A recent photograph must be submitted with an application (passport size is acceptable).
3. Prospective international students are advised that they must comply with all requirements of the U.S. Citizenship and Immigration Services and of San Diego Mesa College to be admitted as international students.
4. Restriction on Aviation Program. The Federal government prohibits all F-visa (F-1 and F-2) students from enrolling in any Aviation Maintenance Technology (AVIM) and/or Aviation Operations (AVIA) classes and programs. No exceptions will be made. Student enrollment is monitored and students will be administratively dropped. The Transportation Security Administration (TSA) requires all students that are enrolled in AVIA 101L, 195L, or 196L to either provide documentation of their US citizenship OR complete a background check. For more information refer to the [Flight Training Security Program website](#).
5. A transfer student from another accredited United States college or university must:
 1. Follow set transfer procedures of the U.S. Citizenship and Immigration Services; and
 2. Have pursued a full-time course of study with a minimum GPA of 2.0 ("C") at the college the student was last authorized to attend (an official transcript must be filed).

Admission Requirements

Admission for Fall Semester

Students must complete all admissions requirements no later than May 15 to be admitted for the fall semester. The processing of an application normally requires a minimum of three to five months. Students who meet the May 15 deadline will be notified as soon as possible of their admission status.

Admission for Spring Semester

Students must complete all admissions requirements no later than October 15 to be admitted for the Spring semester. Students who meet the October 15 deadline will be notified as soon as possible of their admission status.

Academic Achievement

1. An international student must have graduated from high school (or its equivalent) with a GPA of 2.0 ("C") or better, or have obtained a GED® certificate (General Education Development).
2. Official transcripts of all previous secondary and college/university education must be submitted, including an English translation of the transcript, before an application will be considered.

English Proficiency Requirements

To be considered for admission, an international student whose native language is not English must take an International Test of English as a Foreign Language (TOEFL) and score a minimum of 500 on the paper-based test, 173 on the computerized version, or 61 on the internet-based test. For questions regarding the TOEFL test, please visit the Educational Testing Service website at: www.ets.org/toefl/. Institutional reports or photocopies will not be accepted. Students may petition to waive the TOEFL requirement under one of the following conditions:

1. Completion of a transfer level college English composition course at an accredited United States institution with a grade of "C" or higher;
2. Completion of ELAC guided self-placement at L40 (ELAC 145); in addition, the student must take the prescribed course work at the level of assessment; or
3. A minimum SAT verbal score of 450.

Advanced Degrees

An international student in possession of an associate degree or its equivalent, or higher (completion of about 60 semester units) may be determined to be beyond the course offerings of Mesa college and is encouraged to apply to a four-year college or university.

Financial Resources

1. Each international student must submit verification of sufficient financial resources. The verification must indicate the ability of the student to finance each year's education and living expenses.

Minimum of \$31,654 required for one school year (two semesters).

2. An international student attending the college must pay all mandatory fees, including nonresident tuition, enrollment fees and health services fees.
3. Financial aid is not available to international students.
4. An international student may not accept off-campus employment while attending college unless approval is granted by the U.S. Citizenship and Immigration Services and the International Student Advisor.

Health Clearance

Report of Health Examination

Students must be in good health and free of communicable diseases. The "Report of Health Examination" form or a medical examination report by a physician must be submitted prior to admission. The medical examination must certify immunization against polio, diphtheria, measles, rubella, and tetanus, and must provide tuberculosis clearance.

Mandatory Health Insurance

Each student is required to provide a notarized letter (in English) certifying that he/she has secured a health insurance coverage in the United States for the duration of their studies.

Housing

The college is located near public transportation and housing. There are no housing facilities on campus and the college does not assist with housing. However, there is housing within walking distance of the college.

Visa Students (other than F-1)

All other visa categories or immigrant classifications must see the Admissions Office.

Students who are residing in the United States on other than F-1 student visas must comply with all restrictions on total units enrolled as specified by the U.S. Citizenship and Immigration Services.

Fees

Community College Enrollment Fee

The enrollment fee is assessed of all students, including nonresidents. The fee is currently \$46.00 per unit. Enrollment fees subject to change.

- Waiver of the enrollment fee is available to students who petition and qualify as recipients of benefits under the Temporary Assistance to Needy Families (TANF) program, the Supplemental Security Income/State Supplementary (SSI) program, or the General Assistance program.
- Indentured apprentices are exempt from enrollment fees for Apprenticeship Program classes only.
- Financial Aid may be available to students who qualify for assistance.

- Students who meet the income standards for the California College Promise Grant – CCPG-A Only. Contact the Financial Aid Office for eligibility determination.
- Students attending under an approved apprenticeship program, enrolled only in apprenticeship courses.
- Students who depend on prayer for healing, in accordance with the teachings of a bona fide religious sect, denomination, or organization, may petition to have the fees waived. To apply for an exemption contact the Admissions Office.

For more information, contact the Admissions Office.

Nonresident Tuition

In addition to the enrollment fee and health fee, tuition is charged to students who are not residents of California for tuition purposes. The 2024–2025 nonresident tuition fee is \$356.00 per unit.

Library

Overdue fines and fees apply to late and lost library materials.

Health Services Fee

All students are assessed a mandatory fee for health services and accident insurance, whether or not they choose to use the health services available to them. The health services fee is currently \$21.00 per semester for Fall and Spring semesters, and \$17.00 for the Summer session. The following students are exempt from the health fee:

Baccalaureate Degree Program Fee

A baccalaureate degree program fee will be charged for all upper division coursework. The fee is \$84.00 per unit and will be assessed in addition to the \$46.00 per unit enrollment fee. Nonresident students in upper division coursework will be charged the \$84.00 per unit in addition to the \$46.00 enrollment fee, and the nonresident tuition fee of \$356.00 per unit.

Additional Fees

Automobile permits per semester (Fall and Spring)	\$40.00
Automobile permits per semester (Summer)	\$29.00
Carpool permits per semester	\$30.00
Motorcycle permits per semester	\$17.50
Transcript of Record (after two have been issued free of charge)	\$5.00
Loss or damage of equipment and books	Cost
A.S. College Membership (per academic year)	\$8.00
Student Representation Fee	\$2.00

Important Note: Students receiving public assistance, or who are determined eligible for financial aid, may purchase a single car permit for \$25.00.

Important Note: All fees are subject to change.

Students are expected to buy all books and supplies needed for their courses. Certain occupational programs may require additional expenditures for tools, uniforms.

Student Representation Fee

All students attending classes are required to pay a \$2.00 student representation fee per semester. This fee is expended equally to support the: (1) Student Senate of California Community Colleges (SSCCC) and (2) colleges for the purpose of student advocacy efforts to Federal, State and Local governments. Students have the right to refuse to pay the fee for religious, moral, political, or financial reasons.

Returned Check Fee

A \$25.00 fee will be assessed for any returned checks

Debt Owed to the College

In alignment with Assembly bill 1313 (Chaptered October, 2019) and California Education Code 66022 and 76225, diplomas, and registration privileges, or any combination thereof, may be withheld from any student or former student who has been provided with written notice that he or she has failed to pay a proper financial obligation. Any item(s) withheld shall be released when the student satisfactorily meets the financial obligation. A service fee may be charged for all delinquent loans; any service fee would be determined by the total cost required to collect the delinquent loans.

Refunds

1. Fees will be refunded to students who reduce their program in accordance with the following schedule:
 - Refunds for Fall and Spring Primary (16 Week Session) is Friday of the second week
 - Refund deadlines for all other classes are located in the class search under the calendar icon ("refund deadlines")
 - Refund deadlines are also located for a specific term on the [SDCCD website](#) under "Dates and Deadlines"
 - No refund is given for classes dropped after the published deadline.
 2. Students who are administratively dropped when a Petition to Challenge is denied will receive a full refund of the class(es) petitioned.
 3. Students who are academically dismissed and administratively dropped will receive a full refund.
- No refund is given for classes dropped after the deadline.
4. In order to receive a refund, parking permits must be returned to College Police or the Accounting Office within the refund deadlines described in #1.

Students with a valid address on file and who do not have an outstanding financial obligation to the district will receive a refund in the mail or credit to their credit card. Refunds will be sent to students after the add/drop deadline. For payments by check, there is a five week waiting period for checks to clear the bank before refunds will be processed. For more information contact the Accounting Office on campus.

Important Note: Students who drop all classes and wish to receive a refund must also submit their parking permit before the refund will be granted. If the permit is not returned within the two-week refund period, the student will not receive a refund for the permit.

Academic Information and Regulations

Academic Information

Statement of Open Courses

It is the policy of the San Diego Community College District that, unless specifically exempted by statute, every course, section, or class offered by the District and reported for state aid shall be fully open to enrollment and participation by any person who has been admitted to the college and who meets course prerequisites.

Honest Academic Conduct

Honesty and integrity are integral components of the academic process. Students are expected to be honest and ethical at all times in their pursuit of academic goals in accordance with Policy 5500, Student Rights, Responsibilities, Campus Safety and Administrative Due Process.

Academic dishonesty occurs when a student attempts to show possession of a level of knowledge or skill which he or she does not possess. The two most common kinds of academic dishonesty are cheating and plagiarism. Cheating is defined as the act of obtaining or attempting to obtain credit for academic work by the use of any dishonest, deceptive, or fraudulent means. Plagiarism is defined as the act of incorporating ideas, words, or specific substance of another, whether purchased, borrowed or otherwise obtained, and submitting the same as one's own work to fulfill academic requirements without giving credit to the appropriate source.

Students who engage in practices of cheating or plagiarism may warrant two separate and distinct courses of disciplinary action which may be applied concurrently in response to a violation of this policy. Students are responsible for knowing what constitutes academic dishonesty and for consulting with instructors about questions or concerns. Procedure 3100.3 describes the Academic and Administrative Sanctions for Students who are found to be cheating or Plagiarizing. Copies of the procedures can be obtained in the Office of the Vice President of Student Services and [online](#).

Responsibility for Meeting Requirements

Each student must assume responsibility for compliance with the regulations of the college set forth in this catalog, for satisfying prerequisites for any course, and for selecting courses which will facilitate attainment of educational objectives. The college does not assume

responsibility for misinterpretation of policies and procedures as presented in this catalog. Counselors and advisors are available to assist in planning students' programs. Any questions or doubts concerning this catalog material should be referred to the Office of the Vice President, Student Services.

Dean's List

A Dean's Honor List is compiled after each spring term for the academic year (fall to spring). To be eligible for the Dean's Honor List, a student must complete 12 units or more during the academic year and have earned a grade point average of 3.5 or better.

Honors Program

The Honors Program is open to any student who meets appropriate general and departmental criteria. Honors classes are designed to provide strongly motivated students with a more in-depth or cross-disciplinary curriculum and a highly interactive classroom experience.

The Honors core curriculum, "A World of Ideas," is intended for prospective transfer students who are interested in a multicultural, multinational perspective in their courses. The goal of the program is to facilitate and increase transfer to the University of California, California State University, and distinguished private universities, as well as to enhance employability for vocational students.

Special transfer agreements also exist for City College Honors students at the following four-year colleges and universities: UCLA, UC Santa Cruz, UC Irvine, UC Riverside, USC, Pomona College, Occidental College, SDSU, Pepperdine University, Chapman University, Whitman College and Pitzer College. For information on eligibility requirements and course offerings, see the schedule of classes or call (619) 388-3512.

The Honors Program is open to all students (part-time or full-time, day or evening) and can be found in all disciplines (vocational, liberal arts, fine arts, sciences, business, etc.). For specific criteria and other information, please consult the schedule of classes or contact the campus Honors Coordinator.

Students enrolled in an Honors section (including an honors contract), may not transfer to a regular section after the deadline to make a schedule adjustment for

the class. Petition for Honors Credit after the course has been completed will not be permitted.

SDCCD Online Learning Pathways

San Diego City, Mesa, and Miramar Colleges

QUALITY ONLINE LEARNING

Learn anytime, anywhere with our convenient, flexible online courses that fit your busy schedule. Enjoy interactive communication with your classmates and instructor as you complete your coursework in an engaging, supportive learning environment. Our quality online courses are developed and taught by experienced instructors from our three colleges—City College, Mesa College, and Miramar College.

Want to get started? Visit the [SDCCD website](#) to find out if online learning is for you.

Get ready for online learning success! Visit the [online learning success website](#) for more information.

Online students receive 24/7 Technical Support by accessing the [Canvas support webpage](#) or by calling toll free 844-612-7421. For login instructions go [online](#).

Off-Campus Programs

City College offers credit courses at various locations throughout San Diego such as the Educational Cultural Complex (ECC), and other educational and social service agency sites. These classes are open to all City College students and are designed to provide an opportunity for students to attend classes in the community that are short term, easily accessible, and have convenient parking. Off-Campus courses are listed in the class schedule each semester under the subject in which they are offered. Classes held at the ECC location are also listed in the ECC section of the class schedule. If you have questions about enrolling in off-campus classes, call the Off-Campus Programs office at 619-388-3924.

Study Abroad Programs

San Diego City College has offered students the opportunity to study in different countries around the world in order to develop global competencies and to increase cultural awareness while making progress towards completion of academic goals.

Classes are held at educational institutions in the host country. Field trips, excursions, and visits to sites of cultural and historical interest are components of the program. Housing arrangements include family homestays, student apartments, and/or residence halls. Financial aid and scholarships are available for students who qualify.

Semester Abroad Programs

These enhanced learning opportunities have been offered in countries such as Argentina, Australia, Costa Rica, France, Italy, Spain, and the United Kingdom. Courses are taught by faculty from California community colleges. Classes offered abroad meet general education requirements, are CSU and mostly UC transferable, and are selected to take advantage of the host country's history, environment, and culture.

Summer Abroad Programs

Programs from 10 days to 4 weeks have been available during the summer. Spanish immersion in Mexico and Costa Rica has been offered; as well as, photography in Italy and the United Kingdom, and graphic design and dance in Mexico.

Contact Information: Additional information can be obtained from the [International Education Office](#).

Work Experience

Work Experience students can receive academic credit for their current employment or volunteer service. For registration information, call 619-388-3488 or contact the Work Experience Office in BT-215.

Distance Education

The San Diego Community College District offers students the opportunity to take online credit courses at San Diego City College, San Diego Mesa College, and San Diego Miramar College. Online courses offer the same curriculum as traditional courses except that lectures and course materials are accessed via the district's web-based learning management system.

Students engage in classroom discussions and online collaborations with other students and the instructor.

Online registration, counseling, tutoring, and library services are available. SDCCD offers a variety of courses including general education and transfer requirements online. Courses offered meet the Americans with Disabilities Act (42 U.S.C. §12100 et seq.) and section 508 of the Rehabilitation Act of 1973, as amended, (29 U.S.C. §794d).

To ensure student authentication and academic integrity, students have secure logins and are required to perform activities that demonstrate meaningful participation on a weekly basis. Students must logon the first day of class.

In accordance with federal regulations there are restrictions on enrollment in online classes for students residing outside of California. For more information access the list of [restricted states and territories](#).

Academic Regulations

Course Repetition Policy

- No course in which a "C" or better grade has been earned may be repeated, unless students meet the following exception criteria:
 - Legally Mandated Training Requirement
 - Disabled Student as part of a Disability-Related Accommodation
 - Extenuating Circumstances beyond the control of the student (documentation required)
 - Significant Lapse of Time
- Students will not be allowed more than four enrollments in similar active participatory courses in Exercise Science and Visual and Performing Arts, regardless of grade or symbol earned.
- Academic renewal is not allowed for work experience courses.
- Each course in which an unsatisfactory grade ("D," "F," or "NP") has been earned may be repeated twice without a petition. The course being repeated must be the same as the original course, not its equivalent. Only the newly-earned units and grades will be used in computing the grade point average.
- Students will not be allowed more than three enrollments in any course, regardless of grade or symbol earned.
- Academic renewal by course repetition for the second substandard course will only be applicable if the third attempt was completed Spring 2010 or later.

Course Repetition—Limitations on Active Participatory Courses

Due to changes in the regulations that govern community colleges, enrollment limits have been placed on certain types of active participatory courses that are related in content. Active participatory courses include courses in exercise science, visual arts, and performing arts (e.g., music, art, photography, theatre arts). These courses have been put into groups of courses related in content. A student may enroll in active participatory courses in exercise science, visual arts, or performing arts that are in a group of related content for no more than four (4) courses in each content area (group). All grades, including "W's," will count toward the four course enrollment maximum for each group of courses. See the current listing of groups of courses related in content in the Documents section under "Course Repetition - Limitations on Active Participatory Courses"

[online](#). For further information regarding course groupings, please consult with a counselor.

Academic Renewal Without Course Repetition

A student with substandard academic performance (GPA below 2.0) that is not reflective of present demonstrated ability may petition to have a maximum of 30 units of substandard performance disregarded in computation of grade point average.

The following conditions apply:

1. To be eligible for academic renewal without course repetition a student must:
 - a. have transcripts from all institutions attended officially on file.
 - b. successfully complete, in an accredited college or university, 15 units with a grade point average of at least 2.0 subsequent to the work to be disregarded. All courses taken during the semester/session in which the student reaches or exceeds the 15-unit minimum will be used in computing the 2.0 grade point average.
 - c. have one year elapsed since the coursework to be disregarded was completed.
2. A maximum of 30 units may be disregarded;
3. If grade alleviation has already been applied two times for a course, the course will not be eligible for academic renewal without repetition and will remain on the academic record.
4. If previous action for academic renewal has been applied to coursework included in the semester to be disregarded, the course will not be eligible for academic renewal without repetition and will remain on the academic record.
5. Academic renewal without course repetition may be applied to substandard course(s)/semester(s) from another accredited institution.
6. The permanent academic record will be annotated in such a manner that the record of all work remains legible, ensuring a true and complete academic record.
7. Recalculation of the grade point average will be used toward qualification for graduation with honors.
8. Academic standing for the semester/session(s) will not be adjusted.
9. Once the petition is approved, the action is not reversible.
10. Once an associate degree has been posted to the student's academic record, academic renewal

without course repetition may only be applied to classes with an evaluative symbol of "F". For more information see AP 4240 - Academic Renewal Without Course Repetition.

Course Repetition—Lapse of Time

Academic departments may require that courses for the major be completed within a specified number of years prior to the granting of the Associate Degree, Certificate of Achievement, or Certificate of Performance. Students may be required to repeat a course in which a satisfactory (A, B, C, or P) grade has already been earned. Students with questions about the applicability of previous coursework are advised to consult the department as early as possible.

Disability Support Programs and Services (DSPS) Repeat

Additional repetitions of a DSPS course to accommodate a student's disability-related needs may be permitted. For students with disabilities, course repetition is determined on an individual student basis. Contact the DSPS Office on campus for more information.

Mandated Training

Students who are required to meet a legally mandated training requirement as a condition of continued paid or volunteer employment may repeat a credit course any number of times. Students should complete the Mandated Training Course Repetition form.

For more information on course repetition, consult the Counseling Office at your college.

Academic Transcripts

Transcripts of Record

A student may order an official transcript of record online, in person, by mail or via fax. To order an official transcript online, visit the [transcripts website](#). Transcripts ordered online will be mailed within 1–2 business days.

To order a transcript in person, a student may complete a request at the Accounting Office at the college, or in person at the District Office of the Registrar, San Diego Community College District, Administrative Office, 3375 Camino del Rio South, San Diego, CA 92108.

Payment of fees must be made prior to processing a request for transcripts.

The following policy has been adopted by the San Diego Community College District Board of Trustees regarding the issuance of transcripts of record:

1. The first two transcripts will be issued without charge.
2. There will be a charge of \$5.00 for each additional transcript.
3. A \$10.00 special handling fee will be charged for all "RUSH" order transcript requests, including hand

carried transcript requests ordered at the District Office. Rushed transcripts are processed immediately upon receipt. The special handling fee will be charged per request.

Requests will not be processed if students have outstanding holds preventing the release of the official transcript.

All official copies of the student's permanent record are in the Office of the Registrar. The Office of the Registrar will certify only to the accuracy of the records prepared by and issued directly from that office to another institution.

More information on ordering transcripts is available on the [transcripts website](#).

Credit for Prior Learning

Credit for Prior Learning (CPL) is college credit awarded for validated college-level skills and knowledge gained outside of a college classroom. Credit for prior learning

may be earned for eligible courses approved by the faculty for students who satisfactorily pass an authorized assessment. Authorized assessments may include the

evaluation of approved external standardized examinations, military service/training, the evaluation of industry recognized credentials, student-created portfolios, and credit by examination. Students should meet with a Counselor for specific information regarding CPL and the petition process. Details may be found in administrative procedure 5235.

Students may demonstrate proficiency in a course eligible for Credit for Prior Learning and receive college credit through the approved alternative methods for awarding credit listed below:

- Achievement of a satisfactory score on an Advanced Placement (AP) examination
- Achievement of a satisfactory score on a higher-level International Baccalaureate (IB) examination
- Achievement of a satisfactory score on the College Level Examination Program (CLEP)
- Achievement of a satisfactory score on DANTES Subject Standardization Test (DANTES/DSST)
- Satisfactory completion of an institutional examination, known as Credit by Examination, administered by the college in lieu of completion of an active course listed in the current college catalog
- Evaluation of Military Transcripts
- Evaluation of industry recognized credential documentation
- Evaluation of student-created portfolios

Determination of Eligibility for Credit for Prior Learning

- The course is on the approved credit for prior learning list at the college
- The student must have previous academic history (previously earned credit or noncredit from the District) or be currently enrolled in a college at the San Diego Community College District and in good standing
- All student holds must be cleared prior to verification of eligibility
- Official transcripts from all prior colleges are on file
- Official test scores must be submitted for the processing of AP, IB, CLEP, and/or DANTES
- A student education plan is on file

- The student is not currently enrolled in the course
- The student has not received credit on their academic record(s) for an equivalent course

High school students enrolled in CTE transitions should refer to the High School Courses for College Credit Chart (Credit by Examination)

Limitations on Credit for Prior Learning

- Credits acquired by Credit for Prior Learning are not applicable to meeting of such unit load requirements as Selective Service deferment, Veterans, or Social Security benefits.
- Credits acquired by Credit for Prior Learning shall not be counted in determining the 12 semester hours of credit in residence required for an Associate degree.

Important Note: CPL may be used to fulfill the District requirement for six units in the major.

- Credit granted by SDCCD does not necessarily transfer to other institutions. Final determination regarding transfer of credit rests with the receiving institution. Students intending to transfer to a four-year institution should consult a counselor or the individual university regarding their credit for prior learning policy.
- Credit awarded through credit for prior learning may not be used for grade alleviation.

Students may petition for credit for prior learning, by accessing the [Forms and Documents page](#).

Credit by Examination

(Administrative Procedure AP-3900.1)

Students interested in Credit for Prior Learning using credit by examination shall receive credit as recommended by the appropriate department chair or

faculty designee. The term "examination" means any written, oral or performance standards determined by the individual departments. Students must meet specific

credit for prior learning criteria. Approved list of courses are available in the College Evaluations Office.

Students may petition for credit for prior learning, by accessing the [Forms and Documents website](#).

You may view a full copy of the policy by accessing the following [website](#).

See eligibility requirements and limitations on credit for prior learning.

High School and Noncredit Courses for College Credit (Credit by Examination)

(Administrative Procedure AP-3900.1)

As part of an early college program called Career Technical Education (CTE) Transitions (formerly known as Tech Prep), high school and noncredit students may earn college credit equivalent to the courses in the table below. To receive credit, students must be enrolled in a high school or noncredit CTE course tied to an active agreement, meet overall course and final assessment grade requirements, and complete related paperwork including the submission of a SDCCD online college application. Full eligibility and process requirements are available online.

For questions and more information, contact the CTE Transitions Program at 619-388-6572.

For the most up-to-date listing of active agreements and student requirements, please go [online](#).

See Limitations on credit for prior learning listed.

CTE (Career Technical Education) Transitions High School Credit by Examination Active Agreements

High School to San Diego City College

For the most up-to-date listing of active agreements and student requirements, please go [online](#).

[High School to San Diego City College](#)

San Diego College of Continuing Education to San Diego City College CTE Transitions Credit by Examination

For the most up-to-date listing of active agreements and student requirements, please go [online](#).

[San Diego College of Continuing Education to San Diego City College](#)

Industry Recognized Credentials

Students interested in Credit for Prior Learning using industry recognized credential(s) shall receive credit as recommended by the appropriate department chair or faculty designee. Approved list of courses are available in the College Evaluations Office.

Students may petition for credit for prior learning, by accessing the [website](#).

See eligibility requirements and limitations on credit for prior learning.

Acceptance and Application of Military Credit

(Administrative Procedure AP-3900.3 and 3900.5)

San Diego City, Mesa, and Miramar Colleges apply credit for educational experience completed during military service toward the associate degree in accordance with the associate/baccalaureate credit recommendations contained in "A Guide to the Evaluation of Educational Experiences in the Armed Services" published by the American Council on Education (ACE). Students must submit documentation of educational experiences during military service. Acceptable documents include:

- Joint Services Transcript
- AARTS or SMART Transcript
- DD-214
- DD-295
- NAV/PERS 1070/604
- DD-2586

- National Guard Bureau (NGB) Form 22E
- Coast Guard Institute
- Community College of the Air Force (CCAF)

Military service credit may be granted upon verification of six (6) months of continuous active duty, or completion of basic training for National Guard/ Reservists. Four (4) units of credit may be awarded to meet the district graduation requirements in Health and PE. Three (3) of those units may also be used to satisfy Area E of the CSU General Education Breadth pattern.

Other educational experiences during military service may also fulfill additional major, general education, or elective degree requirements. More specific information is available in the San Diego Community College District Evaluations Office.

You may view a full copy of the policy by accessing the following [website](#).

U.S. Air Force and U.S. Army ROTC Programs

Under the provisions of a special agreement, students may participate in the Army or Air Force Reserve Officers Training Program (ROTC) at SDSU. San Diego City, Mesa and Miramar College students may enroll and attend ROTC classes at SDSU by contacting the SDSU Military Science Department 619-594-5545. Financial assistance may also be available. The credits earned in these classes may be transferred as electives to meet the degree requirements of City, Mesa and Miramar Colleges.

See eligibility requirements and limitations on credit for prior learning.

Servicemembers Opportunity Colleges Degree Network System (SOC DNS)

San Diego City College is a member of the Servicemembers Opportunity Colleges Degree Network

System (SOC DNS). As member, the college provides educational assistance to active duty service members and agrees to accept credit for educational experiences during military service as recommended by the American Council on Education (ACE). In addition, the college accepts credit from other non-traditional sources such as DANTES and CLEP examinations. The San Diego Community College District is committed to military personnel who may choose to participate in the SOC DNS Program network through the campus of San Diego City College. SOC DNS was established to better serve highly mobile service members and their families. For more information on these programs, contact the Military Education advisor at the following locations:

Marine Corps Air Station Miramar (MCAS)

858-536-4329

Academic Credit for AP, IB, CLEP, and DANTES/DSST

(Standardized Exams)

(Administrative Procedure AP-3900.4)

The linked tables below indicate the score necessary, the credit allowed, and the area(s) satisfied for each of the examinations accepted for credit.

You may view a full copy of the policy by accessing the following [the list of Board policies](#).

Limitations on AP, IB, CLEP, and DANTES/DSST include:

- Grades are not assigned, nor is the credit used in calculating grade point average.
- Credit awarded through credit for prior learning may not be used for grade alleviation.

Advanced Placement Test (AP)

[Advanced Placement Chart \(AP\)](#)

International Baccalaureate (IB) Credit

[International Baccalaureate Chart \(IB\)](#)

College Level Examination Program (CLEP)

[College Level Examination Program \(CLEP\)](#)

DANTES Subject Standardized Test (DANTES/DSST)

[DANTES Subject Standardized Test \(DANTES/DSST\)](#)

Student-Created Portfolio Assessment

Students interested in Credit for Prior Learning using a student-created portfolio shall receive credit as recommended by the appropriate department chair or faculty designee. Approved list of courses are available in the College Evaluations Office.

Students may petition for credit for prior learning: student-created portfolio assessment by accessing the [SDCCD website](#).

See eligibility requirements and limitations on credit for prior learning.

Grading System

Unit of Credit

A unit of credit represents one hour of lecture or recitation and two hours of preparation per week, or three hours of laboratory per week for one semester.

Academic Grades

Grades	Standing	Grade Points per Unit
A	Excellent	4
B	Good	3
C	Satisfactory	2
D	Passing - Less than satisfactory	1
F	Fail	0
P	Pass	Units earned not counted in GPA
NP	No Pass	Units not counted in GPA

The grade point average (GPA) is determined by dividing the total grade points earned by the total grade point units completed as listed in the chart above.

Administrative symbols

P/NP—Pass/No Pass; I—Incomplete; W—Withdrawal; IP—In Progress; EW—Excused Withdrawal; RD—Report Delayed. Administrative symbols are not used in the computation of GPA. See below for further explanation.

Pass/No Pass (P/NP)

P/NP is a non-punitive grading system where such units earned will be counted in satisfaction of curricular requirements but will be disregarded in determining a student's grade point average. For more specific information, refer to the discussion of the Pass/No Pass Grading Policy.

Incomplete

A symbol of "I," Incomplete, may be assigned by an instructor when a student has been unable to complete academic work for unforeseeable emergency and/or justifiable reason at the end of term. A copy of the "Assignment of Incomplete" form will be mailed to the student and the original retained in the District Records Office. A final grade will be assigned when the work

stipulated has been completed and evaluated by the instructor or when the time limit for completion of the work has passed. An "I" must be made up no later than one year following the end of the term in which it was assigned. In the event of unusual, verifiable circumstances beyond the student's control, a petition may be filed in the Office of the Vice President, Student Services for extension of the one-year time limit. Important Note: Course repetition is not permitted to remove an Incomplete.

Withdrawal

An official withdrawal from classes may be requested by the student or initiated on his/her behalf by the instructor or Vice President, Student Services.

The following conditions apply to official withdrawal:

1. No record of the class will be entered on the student's permanent record if the official withdrawal is made by the deadline to drop without a "W" being recorded as published in the schedule of classes.
2. If the withdrawal is made after the deadline for withdrawing without a "W" and prior to the deadline for withdrawal published in the class schedule for that session, a "W" will be recorded on the student's permanent record. No exceptions to this policy will be made. Petitions will not be accepted for exception to policy.
3. A student attending a session after the deadline for withdrawal will not be eligible to receive a "W" and must be assigned an academic grade or other administrative symbol by the instructor. Exceptions to this policy will be made only upon verification of extreme circumstances beyond the control of the student. Petitions requesting exception must be filed in the Admissions Office.
4. Withdrawal (W) symbols will be used in the calculation of lack of progress probation and dismissal status.
5. Students on active duty or reserve duty may petition for a "military" withdrawal. This withdrawal is not calculated in the determination of academic progress and is noted on the student's academic record.
6. Students will be allowed a maximum of three withdrawals in any course.

In Progress

A symbol of "IP," In Progress, will be assigned when a class extends beyond the normal end of a semester or summer session, that is, when the class "carries over" from one term to the next. The "IP" will appear on a

student's record for the term during which the course is completed until the appropriate grade is assigned by the instructor. The "IP" shall not be used in the calculation of a student's grade point average.

Excused Withdrawal

A symbol of "EW", Excused Withdrawal, may be assigned when a student is permitted to withdraw from a course(s) due to specific circumstances beyond the control of the student affecting his or her ability to complete a course(s).

- Excused withdrawal will not be counted in progress probation and dismissal calculations.
- Excused withdrawal will not be counted as an enrollment attempt.

Students requesting an Excused Withdrawal can obtain a [Petition for Excused Withdrawal \(EW\)](#).

- Excused withdrawal (EW) petitions will be accepted up to one year after the completion of the semester in which the student is requesting an EW.
- All petitions must be accompanied by supporting documentation substantiating the student's extenuating circumstances, including pertinent dates and times.
- It is recommended that students visit with a counselor to discuss alternative options to an Excused Withdrawal to be sure that this choice is the best course of action for the student's academic career.
- Students receiving financial aid should contact the Financial Aid Office to understand the possible implications to financial awards.

Grade Challenge

Final grades will be issued at the end of each semester. In the absence of mistake, fraud, incompetence, or bad faith, the determination of the student's grade by the instructor shall be final once it has been recorded by the Registrar's Office. A student may challenge a grade or request a change to his/her academic record within two years from the date of issuance. Requests beyond two years will not be accepted. Students wishing to

challenge a grade should first attempt to resolve the challenge informally with the instructor. Grade challenges must be processed under District Procedure 3001.2, Grade Challenge Procedure.

Copies of Procedure 3001.2 are available in the Office of the Vice President, Instruction.

Pass/No Pass Grading Policy

There are courses in which Pass/No Pass grades are used exclusively; these are designated in the catalog course description by the statement "Pass/No Pass Only." In addition, there are courses which cannot be taken on a Pass/No Pass basis; these are designated in the course description by the statement "Letter Grade Only." Some courses may be taken for either "Pass/No Pass" or "Letter Grade.

Consistent with District policy, a student in good standing may elect to be graded on a Pass/No Pass basis in courses where there is an option. A grade of "Pass" (P) shall be awarded only for work which otherwise would have received a grade of "C" or better. Work that would have received a "D" or "F" will be graded "No Pass" (NP). The units earned will be counted in satisfaction of program requirements, but will be disregarded in determining a student's grade point average.

Students who plan to transfer to a four-year institution should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.

Conditions

1. Students may change from a 'Letter Grade' option to a 'Pass/No Pass' option during registration or up until the published deadline. To select a Pass/No Pass option for the course go to the 'EDIT Class Enrollment Options' page on the mySDCCD portal. The deadline is listed in the class search details page when you click the calendar icon ("Deadlines"). After the Pass/No Pass Deadline, the 'Letter Grade' or 'Pass/No Pass' option may not be changed for that class.
2. No exceptions to this condition will be made. Petitions will not be accepted for exception to policy.

Standards of Academic Progress

Students are in good academic standing when they have a 2.0 grade point average or higher and have completed more than 50% of units they have attempted. There are two kinds of probation and dismissal, one based upon GPA (Academic Performance) and the other based upon the number of units completed (Progress Performance).

Certain programs may have more stringent standards for academic progress. Consult the program director for more information.

Students enrolled in the core curriculum of medically-related programs will be governed by the probation and dismissal policies as outlined in the program policy manuals that reflect the tenets of safe medical practice and respond to program accreditation guidelines.

Academic Probation

A student whose cumulative grade point average falls below a 2.0. A student on academic probation will return to good standing once his/her cumulative grade point average reaches or exceeds 2.0.

Academic Dismissal

A student on academic probation status for three consecutive primary semesters shall be dismissed. An enrollment hold will be placed on the student's record.

Lack of Progress Probation

A student shall be placed on lack of progress probation when the percentage of all (cumulative) units for which entries of "W," "I," and "NP" are recorded reaches or exceeds 50%.

Lack of Progress Dismissal

A student who has been placed on lack of progress probation for three consecutive primary semesters shall be dismissed and an enrollment hold placed on the student's record when the percentage of units for which entries of "W," "I," and "NP" are recorded in a subsequent semester (non-cumulative), reaches or exceeds 50%.

Exceptions

Provisional, Joint Diploma and Special Admit High School students who receive a substandard grade (D, F,

NP) or lack of progress (W, I, NP) in any class will be automatically dismissed. Important Note: Probationary Status will not apply.

If dismissed:

- Special Admit High School students will not be permitted to re-enroll without approval from a high school counselor.
- Special Admit High School students who attempt/earn 12 units or more-must meet with a college counselor and complete a student academic contract.
- Joint Diploma students must see a JD counselor for readmission.

Readmission after Dismissal

Important Note: Dismissal status is determined based upon Progress Performance, Academic Performance, or a combination of both.

1st Dismissal

- Student must meet with a counselor and complete a Student Academic Contract.
- Readmission will be based upon meeting contract conditions.
- Student will lose registration priority until they return to 'Good' Standing.
- Student will lose eligibility for the California College Promise Grant (CCPG) until they return to 'Good' Standing or sit out one full academic year.

Transfer of Credits

Transcripts of Prior Academic Credit

Students with credit from other colleges and universities must have official transcripts on file with the college.

- Official transcripts are those sent directly from one institution to another.
- Transcripts will only be accepted for one year after issuance.
- Transcripts brought in by students not in an official, sealed envelope will be considered unofficial.
- Transcripts are required even if prior credits do not appear relevant or if units were taken years ago.
- Students receiving veterans benefits must have transcripts on file within one semester.
- Certain programs require transcripts before admission to the program.
- Official transcripts from other institutions become the property of the college and will not be duplicated or returned.
- Official transcripts should be sent to the following address:

San Diego Community College District
3375 Camino del Rio South, Rm. 100
San Diego, CA 92108-3883

Upper Division Coursework

The San Diego Community College District (SDCCD) accepts all lower division courses taken at U.S. regionally accredited colleges. All lower division courses will be counted toward the Associate degree. Petitions to use upper division courses from U.S. regionally accredited colleges will only be accepted if needed to meet minimum Associate degree requirements for the major or district requirements. All petitions must be approved by the faculty in the discipline, or an appropriate designee, and/or college committee.

International Transfer Credits

Students who elect to submit transcripts from international colleges and universities must submit their transcripts to an approved credential evaluation service, and request a comprehensive evaluation be sent to San

Diego City, Mesa, or Miramar College. Credit for transfer courses taken at an institution outside the United States are evaluated dependent upon course equivalency and student learning outcomes on a course by course basis. Coursework from foreign institutions will not be made equivalent to SDCCD courses, and cannot be used to meet transfer major (ADT) or transfer general education requirements. International transcripts are not required. For more information contact the College Evaluations Office.

Credits from Other Regionally Accredited Institutions

Credits from other regionally accredited institutions may be accepted for transfer credit after evaluation by District evaluators. San Diego Mesa College will not accept the transfer credits from another institution if the evaluation by the District evaluators determines that the credits received from another accredited institution do not meet the equivalent standards for a similar course taken at San Diego City College.

Student Rights, Responsibilities and Campus Policies

Placeholder for image at landing page

Disclaimer: SDCCD continuously reviews and updates policies and procedures to ensure compliance with state and federal regulations and changes in business practices. Please refer to the [SDCCD website](#) for the most up-to-date information.

Support Services, Programs and Disability Discrimination Procedures for Students with Disabilities

(Board of Trustees Policy - BP 5140)

The District is committed to educational opportunity for students with disabilities and will comply with all provisions of Section 504 of the Rehabilitation Act of 1973, the Americans with Disability Act, as amended, and Section 508 of the Rehabilitation Act of 1973. Students with disabilities will be reasonably accommodated in compliance with federal and state requirements in all applicable programs of the District. Disability Support Programs and Services (DSPS) shall be primarily responsible for authorizing academic adjustments, auxiliary aids, services, or instruction that facilitate equal educational opportunities for disabled students who can benefit from instruction as required by federal and state laws. The fundamental principles of nondiscrimination and accommodation in academic programs provide that:

1. DSPS services will be available to students with verified disabilities, including but not limited to, reasonable accommodations, academic adjustments, disability management, vocational and academic counseling, technology accessibility, accessible facilities, equipment, instructional programs;
2. No student with a qualified disability will, because of the disability, be excluded from participation in, be denied the benefit of, or otherwise be subjected to discrimination under any post-secondary education activity or program; and
3. The institution will create an educational environment where disabled students have equal access to instruction, including those taking place in work preparation and clinical settings, without

compromising the essential components of the course, educational program, or degree.

The District will respond in a timely manner to academic accommodation requests. See Administrative Procedure, AP 5140, Support Services and Disability Discrimination Procedures for Students with Disabilities, for implementation of this policy, which provides for an interactive and individualized review of each request.

The District identifies DSPS, or the 504 Officer, as the office or individual to determine academic accommodations under Section 504 of the 1973 Rehabilitation Act. DSPS will notify the appropriate administrator when unable to resolve a student complaint about the provision of a requested accommodation.

The Site Compliance Officer (SCO) is identified as the campus individual to handle all discrimination grievances under the Americans with Disabilities Act and can also be found through the District's Equal Employment Opportunity and Diversity Office.

All programs and services of the District, including the DSPS program, shall conform to all requirements established by the relevant law and regulations.

You may view a full copy of the Student Services policy and administrative procedure by accessing the following [website](#).

Students with verified disabilities who may require academic accommodations or auxiliary aids are strongly recommended to contact the Disability Support Programs and Services (DSPS) Department, Room A-122, 619-388-3513, [disAbility Support Programs & Services webpage](#) and complete the orientation procedures well before classes begin to ensure timely provision of services. Students are encouraged to identify themselves to the appropriate instructors to discuss the details and time lines necessary to provide appropriate accommodations. Students enrolled in online courses are encouraged to contact the college DSPS department where the courses are being offered to request academic accommodation. Questions regarding academic accommodations and disability discrimination, including how to file a complaint or a formal grievance with regards to academic accommodations should be directed to the college 504 Officer, Poppy Fitch at 858-847-5045, District Office in room 275.

Students may file a complaint with the Chancellor of the California Community Colleges within thirty calendar days of the event or following the completion of the college [Accommodation Grievance process](#).

Students may file a complaint with the Federal Office of Civil Rights in San Francisco, California, if he or she believes that the college or one of its representatives is violating his or her rights, by accessing the [U.S. Department of Education website](#).

Exclusion from Classes

A student may be excluded from class or the college whenever the student:

1. Exhibits behavior which interferes with the educational process. An instructor may remove a student from two class sessions for disruptive behavior. (Refer to BP 5500: Student Rights,

- Responsibilities, Campus Safety and Administrative Due Process). You may view a full copy of the policy by accessing the following [website](#); or
2. Is found to have a communicable disease which requires isolation pursuant to a directive from the County Department of Public Health.

Minor Children on Campus

Minor children who are not enrolled are not permitted in any classroom at any time.

Minor children who are not enrolled are not to be left unattended at any time while on the campus.

Consumer Information

The Student Consumer Information Regulations of the United States Department of Education require all colleges and universities to provide their students access

to certain information to which they are entitled to as consumers. Under these regulations, San Diego City, Mesa, and Miramar College and Continuing Education

annually distributes to all students a notice of the availability of consumer information. Please visit our [webpage](#) to review the information outlined for consumer disclosure by the Higher Education Opportunity Act (HEOA).

This information is available in a hard-copy form upon request.

Student Right to Know

In compliance with the federal Student-Right-to-Know and Campus Security Act of 1990, it is the policy of the college district to make available completion and transfer rates for all certificate, degree and transfer seeking first-time, full-time students who began in Fall 2017, a three year tracking period.

The completion and transfer rates are listed below:

	Completion Rates	Transfer-Out Rates
City	22.72%	10.15%
Mesa	28.71%	14.36%
Miramar	41.78%	14.02%

These rates do not represent the success rates of the entire student population at the college. Our statewide completion indicators for student success include a six-year tracking period for all first-time students. Current information can be found, by accessing the [California Community Colleges website](#).

Athlete Graduation Rate for Fall 2018 Cohort

	Initial Cohort	Completion Rate	Transfer Rate
City College/ ECC	27	11%	15%

	Initial Cohort	Completion Rate	Transfer Rate
Mesa College	19	16%	11%
Miramar College	17	18%	12%

Source: SDCCD Information System and National Student Clearinghouse

The cohort includes first-time athletes who are enrolled full-time. Athletes are identified in a fall term based on enrollment in intercollegiate athletic courses. Student athletes are tracked for three years to measure their outcomes. Two measures are provided. The first measure, completion rate, is the total number of students who earn a degree, certificate, or reach transfer prepared status (60 transferable units with a GPA greater than or equal to 2.0). The second measure is transfer rate, which includes all non-completers who transferred to a four-year institution. These definitions match the methodology used for the Student Right-To-Know (SRTK) graduation rates, which are also consistent with how the NCAA reports Athlete graduation rates.

Nondiscrimination Policy

(Board of Trustees Policy – BP 3410)

San Diego Community College District Board of Trustees Policy BP 3410 prohibits discrimination in accordance with state and federal laws. The San Diego Community College District is committed to equal opportunity in

educational programs, employment, and all access to institutional programs and activities.

The District, and each individual who represents the District, shall provide access to its services, classes, and programs without regard to national origin, religion,

age, gender, gender identity, gender expression, race or ethnicity, color, medical condition, genetic information, ancestry, sexual orientation, marital status, physical or mental disability, pregnancy, military or veteran status, or because he/she is perceived to have one or more of the foregoing characteristics, or based on association with a person or group with one or more of these actual or perceived characteristics. No qualified student with a disability shall, by reason of such disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the district or be subjected to discrimination by it. Lack of English speaking skills and/or visual/hearing impairment will not be a barrier to admission or participation in Career Technical Education programs.

Students wishing to file complaints based upon discrimination should contact the campus Equal Employment Opportunity (EEO) Site Compliance Officer, Claudia Perkins at 619-388-2699 in I4-408. Appeals may be made to the District Equal Opportunity & Diversity Officer at the District Administrative Office, 3375 Camino del Rio South, San Diego, CA 92108.

Students with disabilities who want to file a grievance under Section 504 of the 1973 Federal Rehabilitation Act should contact the campus 504 Officer Claudia Perkins

at 619-388-2699 in I4-408. Students who want to file a disability discrimination grievance under the Americans with Disabilities Act (ADA) should contact the campus Site Compliance Officer (SCO) Claudia Perkins at 619-388-2699.

You may view a full copy of the policy by accessing the following [website](#).

Free Speech

Free speech areas have been designated on the college campuses to maximize the opportunity for free discussion and expression, while minimizing the potential for disruption of classroom and college activities.

Information concerning free speech areas is available in the office of the Vice President of Student Services, or the Dean of Student Affairs office on campus.

Gender Equity

The Gender Equity Coordinator facilitates the development or updating of the campus Gender Equity Plans in cooperation with committees that are responsible for equity concerns. The Title IX Coordinator can be reached at 619-388-6660.

Title IX. Prohibiting Gender Discrimination and Sexual Harassment

San Diego City, Mesa, and Miramar College are committed to support all regulations under Title IX. Title IX states: "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance." – 20 USC 1681

San Diego City, Mesa, and Miramar Colleges do not discriminate on the basis of sex, gender, or sexual orientation in its education programs or activities. Title IX of the Education Amendments of 1972, and certain other federal and state laws, prohibit discrimination on the basis of gender, gender identity, or sexual orientation in employment, as well as all education programs and activities, and protect all people regardless of their gender or gender identity from sex discrimination, which includes sexual harassment and sexual violence. These procedures are used when a complaint concerns discrimination on the basis of gender, including sexual harassment.

The sexual harassment of students, including sexual coercion, sexual assault, domestic violence, dating violence and stalking, is a form of sex discrimination and interferes with students' right to receive an education free from discrimination and harassment.

Sexual assault, as that term is used in this section, encompasses several physical sexual acts perpetrated against a person's will or where a person is incapable of giving consent. A person may be unable to give consent due to their use of drugs or alcohol or because of an intellectual or other disability.

A number of different conduct falls into the category of sexual assault, including rape, sodomy, fondling, and sexual assault with an object. All such acts of sexual assault are forms of sexual harassment covered under Title IX.

Further information and procedures for filing a formal complaint of discrimination on the basis of sex, gender, or sexual harassment are found [online](#).

Title IX Coordinator

Poppy Fitch, Ed.D.
Director, Disability Support Programs and Services, Title IX Coordinator
titleix@sdccd.edu
619-388-6983

Amber Eckert
Title IX Coordinator
titleix@sdccd.edu
619-388-6660

Deputy Title IX Coordinators

San Diego City College (A-222)

Marciano Perez
Vice President, Student Services
mperez@sdccd.edu
619-388-3981

San Diego Mesa College (I4-408)

Victoria Miller
Dean of Student Affairs
vmiller@sdccd.edu
(619) 388-2699

San Diego Miramar College (K1-210)

Cheryl Barnard, Ph.D.
Dean of Student Affairs
cbarnard@sdccd.edu
(619) 388-7313

San Diego Continuing Education (Room 104, Educational Cultural Complex (ECC))

Michele Madrid Novak, M.Ed.
Student Affairs Coordinator
mnovak@sdccd.edu
(619) 388-4850

Drug Abuse and Alcohol Prevention Program (DAAPP)

The Drug-Free Schools and Communities Act and Drug and Alcohol Abuse Prevention Regulations (Education Department General Administrative Regulations

[EDGAR]), specifies that no institution of higher education shall be eligible to receive funds or any other form of financial assistance under any Federal program,

including participation in any federally funded or guaranteed student loan program, unless the institution certifies to the Secretary that the institution has adopted and has implemented a program to prevent the use of illicit drugs and the abuse of alcohol by students and employees. In response, the San Diego Community College District (SDCCD) has adopted and implemented program and policies to prevent the unlawful possession, use, or distribution of illicit drugs and alcohol by students and employees.

The San Diego Community College District (San Diego City College, San Diego Mesa College, San Diego Miramar College and Continuing Education) is committed to providing a drug free environment. The institutions also prohibit the use of tobacco products and electronic delivery devices on campus or at college/district sponsored events. Any type of drug use, including alcohol, is dangerous and potentially life

threatening. Drugs and alcohol adversely affect the body, mind and behavior. The effects vary from person to person and from usage to usage. Even low doses of drugs and alcohol can impair judgment and coordination. If you use drugs or alcohol, you risk overdose, accidents, dependence, ill health, as well as legal, financial and personal problems. The federal laws against drugs are divided into two categories: possession and distribution. The penalties are severe depending upon the type of drug, quantity of the drug, and any prior offenses. Possession will earn up to one year in prison and a \$5,000 fine. Distribution will earn up to life in prison and an \$8 million fine. State laws vary and may be more severe.

For more information, please visit the [Drug Abuse and Alcohol Prevention Program \(DAAPP\)](#).

Smoking Regulation

(Board of Trustees Policy – BP 0505)

CITY COLLEGE IS A SMOKE AND TOBACCO-FREE CAMPUS

All campuses and facilities of the San Diego Community College District, City College, Mesa College, Miramar College, and Continuing Education operate in compliance with the provisions of Government Code 7597 and San Diego Municipal Code section 43.1003(a) regulating smoking in a public place or place of employment. In accordance with Board Policy (BP 0505) Smoke and Tobacco Free District Property smoking and the use of any tobacco product are prohibited on all properties owned or controlled by the District.

City College is committed to creating a clean, healthy working and learning environment for students, faculty,

staff and visitors. All students, employees and visitors on the City College property are subject to BP 0505 regulations, which will be strictly enforced at all times. Student Health Services at City College offers Cessation Program Referrals to educate the college community about the risks of tobacco and the availability of Smoking Control Programs. Visit or call the Student Health Services on campus for additional information at 619-388-3450.

Additional information is available in the Campus Police Office. For complete SDCCD Policy 0505 and Procedure 0505.2 information, please visit the [website](#).

Crime Awareness and Campus Security

Jeanne Clery Act Crime Statistics

The Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act is the landmark federal law, originally known as the Campus Security Act, which requires colleges and universities across the United States to disclose information about crime on and around their campuses.

The San Diego Community College District Annual Security Report, titled "Safe and Sound, a guide to safety and security in the San Diego Community College

District", includes statistics for the previous three years concerning reported crimes that occurred on campus; in certain off-campus buildings or property owned or controlled by the San Diego Community College District; and on public property within, or immediately adjacent to and accessible from, the campus. The report also includes institutional policies concerning campus security, such as policies on drug use, crime prevention, the reporting of crimes, sexual assault and other matters. You can obtain a copy of this report by contacting any campus admissions office, Vice President of Student

Services (I-422) office or college police business office. At any time you may view a full copy by accessing the following [website](#).

Pursuant to State and Federal Law information concerning registered sex offenders enrolled or employed by the college may be obtained through the College Police Office.

Elder and Dependent Adult Abuse

An elder is defined as a resident of the State of California who is 65 years of age or older; or a dependent adult, defined as a resident of the State of California between the ages of 18 and 64 years, who has a physical or mental limitation that restricts his or her ability to carry out normal activities or to protect his/her rights.

Post-secondary educational institutions serving dependent adults are designated as mandated reporters

with an individual, personal responsibility to comply with the reporting requirements.

Any mandated reporter, who, in his or her professional capacity, or within the scope of his or her employment, has observed or had knowledge of an incident that reasonably appears to be physical abuse, abandonment, isolation, financial abuse, or neglect, or is told by an elder or dependent adult that he or she has experienced behavior constituting physical abuse, abandonment, isolation, financial abuse, or neglect, or reasonably suspects abuse shall report the known or suspected instance of abuse immediately to Adult Protective Services at 1-800-510-2020.

Copyright Responsibility

Any duplication request of copyrighted materials for use in the college's instructional programs must be accompanied by written permission from the copyright owner. Any duplication of copyrighted materials by student, staff, or faculty is to be for the sole purpose of private scholarly study. Since the liability for infringement of statutory or common-law copyright occurs during misuse of duplicated materials, the duplicated copies cannot be sold or distributed. A designated portion of the duplicated copy cannot be

included in another's work without the written permission of the copyright owner. All copyright responsibility is assumed by the individual requesting the duplication. San Diego Miramar College, its agents, representatives, and employees are held harmless against all claims, suits, damage costs, and expenses of charges of statutory or common-law infringement resulting from the college's efforts to provide services, materials, and equipment to the requester.

Student Rights, Responsibilities, Campus Safety and Administrative Due Process

(Board of Trustees Policy – BP 5500)

This policy specifies that students are subject to adhering to the policies and procedures of the San Diego Community College District, as well as all federal, state, and local laws. Students are subject to charges of misconduct concerning acts committed on District-owned or controlled property or the District-sponsored activities as specified in the policy.

You may view a full copy of the policy by accessing the following [website](#).

Student Grievance Procedures

The purpose of this procedure is to provide a prompt and equitable means for resolving student grievances.

The procedures enumerated in Student Grievance Procedures AP 5530 shall be available to any student who believes a district decision or action has adversely affected his/her rights as a student as specified in Student Rights and Responsibilities, Policy 5500, Section a through j. Note that grades are not grievable under this policy. Refer to the [Grade Challenge section](#) of this catalog.

You may view a full copy of the policy by accessing the following [website](#).

Volunteer/ Visitor Conduct Expectations

In accordance with Procedure 3100.4, all visitors and volunteers are expected to adhere to the policies and procedures of the San Diego Community College District, as well as all federal, state and local laws. Visitors and volunteers will be subject to removal from classrooms, service areas, and activities of the campus for any of the following acts (but not limited to) while on campus. Any violation may be subject to permanent removal from campus. Violations of state, federal, or local laws or ordinances, while on district premises, will be addressed by college police in accordance with the California Penal Code.

- Act or threat of damage to or theft of property belonging to or located on District-controlled property or facilities.
- The physical or verbal intimidation or harassment of such severity or pervasiveness as to have the purpose or effect of unreasonably interfering with a student's academic performance, or a District employee's work performance, or of creating an intimidating, hostile, or offensive educational or work environment.
- Physical or verbal disruption that is incompatible with instructional or student services activities, administrative procedures, public service functions, authorized curricular or co-curricular activities or prevention of authorized guests from carrying out the purpose for which they are on campus when such a disruption occurs inside of any classroom or facility or in such proximity as to appear reasonably likely to interfere with activities inside of the classroom or facility, or the substantial and material

disruption of any other regular campus activity which occurs in any other portion of District-controlled property.

- Disorderly, lewd, indecent or obscene conduct or expression or habitual profanity or vulgarity; any expression which is obscene, libelous or slanderous according to current legal standards or which so incites students as to create a clear and present danger of the commission of unlawful acts, or the substantial disruption of the orderly operation of the community college. (Ed. Code 76120)
- Assault or battery upon a student or district personnel on district premises or at any time or place while under the authority of District personnel.
- Possession of weapons, explosives, unlicensed dangerous chemicals or objects which may be used as weapons or to threaten bodily harm, as specified in District Policy, the California Penal Code, or other applicable laws.

Failure to comply with the reasonable directions of staff members of the district who are acting within the scope of their employment. Continued and willful disobedience or open and persistent defiance of the authority of district personnel, provided such authority is related to district activities or college/center attendance.

You may view a full copy of the policy by accessing the following [website](#).

Student Records, Release, Correction and Challenge

(Administrative Procedure AP-5040)

San Diego Community College District strictly adheres to the Family Education Rights and Privacy (FERPA). This procedure specifies limitations on Federal and State law, and ensures that appropriate record maintenance and destruction systems are in place.

Pursuant to the "Family Rights and Privacy Act of 1974" (Public Law 93-380) and the California Education Code, a student may request to inspect all his/her official school records, files, and related data that are classified as Student Records. The records will be available for review at a mutually convenient time during regular working hours. Contact the Vice President, Student Services. If

information in the file is inaccurate, misleading, or inappropriate, a student may request removal of the information or include a statement disputing the material that is challenged.

The law provides that no individual, agency or organization shall have access to a student's records without the written consent of the student, except under very specific conditions:

You may view a full copy of the policy by accessing the following [website](#).

Complaint Processes

San Diego City, Mesa, and Miramar Colleges are committed to an educational environment that is free from interference and disruption, and that fosters equity and mutual respect.

Students may file a complaint when they believe that a College faculty or staff member has violated the following Board Policies and Administrative Procedures:

1. Student Rights, Responsibilities, Campus Safety and Administrative Due Process: Policy 5500
2. Student Grievance: Procedure 5530
3. Student Discipline: Procedure 5520
4. Honest Academic Conduct: Procedure 3100.3
5. Academic Accommodations and Disability Discrimination for Students with Disabilities: Procedure 3105.1
6. Prohibition of Harassment: Policy 3430
7. Prohibition of Sexual Harassment under Title IX Policy 3433
8. Nondiscrimination: Policy 3410
9. Fraud/Whistle Blower: Policy 6125
10. Grade Challenge: Procedure 3001.2

Board Policies and Administrative Procedures are available to Individuals [online](#).

Most complaints, grievances or disciplinary matters should be resolved at the campus level. Individuals are strongly encouraged to make every attempt to resolve matters through the appropriate administrative processes.

More information on the complaint processes can be found [online](#).

Academic Complaint

An academic complaint may be filed with the department chair or instructional dean when a student feels that a faculty member has violated state law, federal law, or College policies and procedures relative to grading or other academic matters*. Students may directly contact the department chair or instructional dean or submit their complaint [online](#).

Important note: All grades awarded by the instructor of record shall be final. The California Code of Regulations, Title 5 §55025, states "the determination of the student's grade by the instructor shall be final in the absence of mistake, fraud, bad faith, or incompetency."

Academic Accommodation Due to Disability Complaint (Section 504/ADA)

Students who have a complaint regarding access to, or quality of, their academic accommodations may contact the DSPS counselor.

Students may submit a complaint [online](#) or contact the campus 504 Officer.

Students with disabilities who want to file a complaint regarding access to or quality of their academic accommodation under Section 504 and/or the American Disabilities Act (ADA) may go through the informal process with the DSPS counselor, if no agreement is reached with the informal process, students may submit a complaint online or contact the campus 504 Officer:

Campus 504 Officer
San Diego City College (District Office Rm 275)
Poppy Fitch pfitch001@sdccd.edu (858) 847-5045
San Diego Mesa College (I4-408)
Claudia Perkins cperkins@sdccd.edu (619) 388-2699
San Diego Miramar College (Room K1-303)
Allison Douglas-Chicoye agonzales@sdccd.edu (619) 388-7270
San Diego Continuing Education (Room 104, Educational Cultural Complex (ECC))
Michele Madrid-Novak mnovak@sdccd.edu (619) 388-1257

General Complaint

A general student complaint may be filed by a student who feels an action of a College staff member, office, or group violates existing College rules, policy, or

procedures or other local, state, and federal laws. A complaint of gender discrimination or sexual assault or harassment is not included in this category; please see Title IX complaint below.

The complaint procedures are formalized procedures to ensure timely resolution at the lowest possible level. The first step is the informal resolution stage, which involves the student who has a complaint and the faculty/staff member or specific group with whom the student has a complaint. The student must notify the faculty/staff person or representative of a group that he or she wishes to make an appointment for an informal meeting to review an action. In the absence of the instructor or staff person and after a good faith effort to make contact, the student may directly contact the instructional dean or appropriate administrator or submit their complaint [online](#).

Unlawful Harassment or Discrimination Complaint not Based on Sex or Gender

San Diego City, Mesa and Miramar Colleges are committed to providing an academic environment free of unlawful harassment and unlawful discrimination. Board Policy 5500 defines verbal, physical, visual or written, environmental and harassment and other forms of harassment on campus, and sets forth a procedure for the investigation and resolution of complaints of harassment by or against any staff, or faculty member, or student within the District.

You may view a full copy of the policy by accessing the following [website](#).

These procedures are used when a complaint concerns matters of discrimination or failure to comply with College policy or procedures or federal and/or state regulations including the Civil Rights Act; Executive Orders 11246 and 11375; the Vietnam Era Veterans Readjustment Act of 1974; the Age Discrimination and Employment Act of 1967; Section 504 of the 1973 Federal Rehabilitation Act and Americans with Disabilities Act (ADA); and the nondiscrimination laws of the State of California.

Students who wish to file a complaint may do so [online](#) or contact your college Site Compliance Officer (SCO):

Campus Site Compliance Officer
San Diego City College (District Office Rm 275)
Poppy Fitch

Campus Site Compliance Officer
<p>pfitch001@sdccd.edu (858) 847-5045</p>
San Diego Mesa College (I4-408)
<p>Claudia Perkins cperkins@sdccd.edu (619) 388-2699</p>
San Diego Miramar College (Room M-211E)
<p>Francois Bereaud fbereaud@sdccd.edu (619) 388-7503</p>
San Diego Continuing Education (Room 115F, North City Campus)
<p>Lynda Reeves lreeves@sdccd.edu (619) 388-1827</p>

Students wishing to pursue a civil rights complaint beyond the college/district level should direct their inquiries to the Office of Civil Rights, United States Department of Education, 50 Beale Street, Suite 7200, San Francisco, CA 94105-1813.

Other Complaint Process

If your complaint is associated with the institution's compliance with academic program quality and accrediting standards, you may contact the [Accrediting Commission for Community and Junior Colleges \(ACCJC\)](#). ACCJC is the agency that accredits the academic programs of the California Community Colleges.

If your complaint does not concern the California Community College's compliance with academic program quality and accrediting standards, you may contact the California Community College Chancellor's Office by completing the [web form](#).

Academic Requirements

The Baccalaureate Degree

The Bachelor of Science (BS) degree is intended for students interested in a high-level career in technical education.

The following is required for all California community college BS degrees:

- A combination of lower division and upper division coursework totaling a minimum of 120 semester units applicable to a baccalaureate degree.
- Completion of (TBD lower division general education pattern)
- Completion of a minimum of 40 semester units of upper-division courses, including a minimum of nine semester units of upper-division general education.

- An identified major that includes a minimum of 18 semester units of lower division courses and 40 semester units of upper-division coursework, including units in the major and general education.
- All courses designated as upper division major requirements must be completed with a grade of "C" or better.
- A minimum of 12 degree applicable units must be completed in residence at an SDCCD college.

Limitation on Enrollment: Students must be admitted to a baccalaureate degree program at a California community college.

The Associate Degree

On the recommendation of the faculty, the colleges of the San Diego Community College District award the Associate of Arts degree or the Associate of Science degree.

The Associate of Arts degree is awarded in the social sciences, humanities, the arts, and similar disciplines. The Associate of Science degree is awarded in engineering, physical and biological sciences, and occupational curricula.

- A "major" is a focused program of study within a specific discipline, which may include some coursework outside the primary discipline. Programs designed to provide transfer preparation must be designed to meet specific lower-division requirements in comparable baccalaureate majors.
- An "area of emphasis" is an interdisciplinary program of study encompassing a broad range of courses from multiple related academic disciplines, providing the student with an academic pathway broader than a specific major but more focused than general education.

All Degrees Have the Following Requirements in Common

Minimum Units in Residence

Satisfactory completion of a minimum of 12 degree applicable semester units must be completed in residence within the San Diego Community College District.

The 12-unit in residence requirement is effective for all degrees awarded regardless of catalog year.

Courses completed via credit for prior learning, including credit by exam, do not qualify for the 12-unit in residence requirement.

Major/Area of Emphasis Requirements

A minimum of 18 semester units (27 quarter units) of focused study in a major or interdisciplinary area of emphasis.

Six semester units must be completed at City, Mesa, or Miramar College. Refer to the Degree Curricula and Certificate Programs section of this catalog for specific requirements for each major.

Recency of Coursework Limitation

Academic departments may require that courses for the major be completed within a specified period of time prior to the granting of the Associate Degree, Certificate of Achievement, or Certificate of Performance. Students with questions about the applicability of previous coursework are advised to consult the Department as early as possible.

Associate in Arts for Transfer (AA-T) or Associate in Science for Transfer (AS-T) for California State University (CSU)

The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Each AA-T or AS-T is accepted by some but not all CSU campuses. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree in that major. Please see a counselor and visit the [California Community Colleges website](#) for more information.

Students intending to transfer to a CSU should consult a counselor and visit [ASSIST](#) for guidance on appropriate transfer coursework.

Degree Requirements

The following is required for all AA-T or AS-T degrees:

1. Completion of 60 semester units that are eligible for transfer to the California State University.
2. Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major.
3. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
4. Minimum grade of "C" or "P" or better for each course in the major. Students should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern. See the California General Education Transfer Curriculum pattern for more information.

Associate of Arts and Associate of Science Degree Requirements

Minimum 60 Units Required

A minimum of 60 semester units (90 quarter units) of degree-applicable lower division credit courses, including courses that apply to the major or area of emphasis in career technical fields and courses in composition, reading, and mathematics or quantitative reasoning not more than one level below transfer. Below transfer level course requirements must align with Education Code section 78213.

1. Satisfactory completion of at least 12 semester units (18 quarter units) in residence within the San Diego Community College District.
2. Completion of a minimum 21 semester units (or 28–31.5 quarter units) general education pattern pursuant to section 55061, or completion of the requirements for an approved intersegmental lower-division general education pattern used for

transfer to the University of California or the California State University.

Grade Point Average (GPA) and Minimum Grade Requirements

1. Students must earn a grade of "C" or better in courses required for the major. A "P" (pass) grade meets this requirement.
2. A grade point average of at least 2.0 (a "C" average) is required in the curriculum upon which the degree is based.

Credit for Prior Learning

1. Students may receive credit for knowledge or skills acquired through a district's procedures for

awarding credit for prior learning. See Credit for Prior Learning.

2. Students may petition to have completion of a noncredit course counted toward satisfaction of requirements for an associate degree. See High School and Noncredit Courses for College Credit (Credit by Examination).

Select One of the Following Six General Education Options:

Students who plan to transfer to a four-year institution should review the Transfer Requirements section of this catalog.

- **Option 1**—San Diego Community College District General Education and District Requirements. See District Requirements (Option 1) of this catalog.
- **Option 2**—CSU General Education Breadth (CSU GE Pattern). Effective Fall 2025, Option 2 is deactivated. Students who have established and maintained catalog rights prior to Fall 2025 may continue to use this general education pattern as it applies to their designated catalog year. Option 2 is not eligible for new or revised programs beginning in Fall 2025 or later.
- **Option 3**—Intersegmental General Education Transfer Curriculum (IGETC) pattern. Effective Fall 2025, Option 3 is deactivated. However, students who have established and maintained catalog rights prior to Fall 2025 may continue to use this general education pattern as it applies to their designated catalog year. Option 3 is not eligible for new or revised programs beginning Fall 2025 or later.
- **Option 4**—San Diego Community College District General Education Requirements. See General Education Requirements (Option 4) of this catalog. Students selecting this option should meet with a counselor to determine the appropriate General Education courses for their individual transfer goals. **NOTE:** Option 4 is only available for the following City College degrees designed for transfer students:
 - Visual and Performing Arts
 - Language Arts and Humanities
 - Scientific Studies:
 - Biological Science
 - Mathematics and Pre-Engineering
 - Physical and Earth Sciences Specialization
 - Social and Behavioral Sciences
 - Nursing Education
- **Option 5**—Students who submit an official transcript showing they have earned a baccalaureate degree from a regionally accredited institution will have satisfied the SDCCD associate degree general education and District requirements by having previously completed the baccalaureate degree.

Students seeking the Associate in Arts for Transfer (AA-T) or Associate in Science for Transfer (AS-T) degree must complete the California General Education Transfer Curriculum (Cal-GETC) or the requirements for an approved intersegmental lower-division general education pattern used for transfer to the University of California or the California State University based on catalog rights.

- **Option 6**—California General Education Transfer Curriculum (Cal-GETC). See General Education Requirements in the Transfer Guide of this catalog.

District Requirements (Option 1)

Students choosing Option 1 must complete the District Requirements as outlined below. Additionally, students choosing Option 1 must fulfill the General Education requirements detailed in the General Education Requirements section of this catalog.

1. American Institutions/California Government

Students are required to complete the United States History, Constitution and American Ideals before being awarded an associate degree. This requirement may be fulfilled by completing any combination of two classes that, when combined, fulfill areas: US-1, US-2, and US-3. A course may be used to fulfill more than one area.

A check mark [✓] indicates course has been approved to meet the requirement for the area.

Course	Area US-1: Development of American Institutions	Area US-2: US Constitution	Area US-3: California State & Local Governments
^ BLAS 140A African American History to Reconstruction (C,M,MMR)	✓	✓	
^ BLAS 140B African American History since Reconstruction to the Present (C,M,MMR)	✓		✓
^ CHIC 141A United States History from a Chicano Perspective (C,M,MMR)	✓	✓	
^ CHIC 141B United States History from a Chicano Perspective (C,M,MMR)	✓		✓
HIST 109 History of the United States I (C,M,MMR)	✓	✓	✓
HIST 110 History of the United States II (C,M,MMR)	✓		✓
^ HIST 115A History of the Americas I (C,M,MMR)	✓	✓	
^ HIST 115B History of the Americas II (C,M,MMR)	✓		✓
^ HIST 123 U.S. History from the Asian Pacific American Perspective (C,M, MMR)	✓		✓
HIST 141 Women in United States History I (M,MMR)	✓	✓	
HIST 142 Women in United States History II (M,MMR)	✓		✓
^ HIST 150 Native Americans in United States History I (M)	✓	✓	
^ HIST 151 Native Americans in United States History II (M)	✓		✓
HIST 175 California History (M)			✓
^ POLI 121 American Political Development (C,M,MMR)	✓	✓	
POLS C1000 American Government and Politics (C,M,MMR)		✓	✓

NOTES:

- Courses designated with a caret (^) may also be used to fulfill the District Multicultural studies requirement.

Course	Area US-1: Development of American Institutions	Area US-2: US Constitution	Area US-3: California State & Local Governments
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- Completion of the Advanced Placement examination in U.S. History with a score of 3 or higher will satisfy the requirement for the CSU American Institutions Area US-1 only.
- Completion of the Advanced Placement examination in U.S. Government & Politics with a score of 3 or higher will satisfy the requirement for Area US-2.
- Students who have completed the American Institutions requirement except for the California government portion must complete one course approved in Area US-3.

2. Health Education

This requirement is met by completing Health Education 101: Health and Lifestyle, three units.

*Note: This requirement is waived for students who earn degrees in Nursing Education, Physical Therapist Assistant, or are graduates of a certified paramedic training program. U.S. Veterans and active duty U.S. military personnel may be granted **three units** of college credit to fulfill the Health Education Requirement if service has been continuous for at least six months. Copies of form DD-214 or DD-295 or Joint Services Transcript (JST) or CCAF Transcript covering all periods of military service must be on file in the Records Office.*

3. Exercise Science Activity

Students must complete two activity courses. Exercise Science courses numbered below PHYE 240 or below EXSC 229 are acceptable. Dance courses are also acceptable, except for DANC 181, 183 and 253. Administration of Justice 127A, 127B, 127C, 127D, 128A, 128B, 128C, 128D, 260, 323A, 381 and 382 are also acceptable. Fire Protection Technology 100D, 150A, 150B, 160, 360A, 380W, 381F are also acceptable. Students with physical conditions which prevent participation in regular exercise science activity classes must file a physician's statement with the College Evaluations Office. Adapted Exercise Science classes are available. A Physician's medical release form is required.

*Note: This requirement is waived for students who possess an accredited Fire Fighter I certification or are graduates of a POST Commission certified regional law enforcement academy. U.S. Veterans and active duty U.S. military personnel may be granted **one unit** of college credit (0.5 units EXSC 140A and 0.5 units EXSC 140B) to fulfill the Exercise Science Activity requirement if service has been continuous for at least six months. Copies of form DD-214 or DD-295 or Joint Services Transcript (JST) or CCAF Transcript covering all periods of military service must be on file in the Records Office.*

4. Multicultural Studies

Students may satisfy the District multicultural studies graduation requirement by satisfactorily completing a course related to the culture of one or more of the ethnic groups which are represented in American society. The course shall include a focus on the role of men and women in the origin, development, and current status of these cultures.

Note: Each student seeking the Associate Degree must complete a three-unit multicultural studies course selected from the general education courses marked with a ^ indicating that it meets the Multicultural Requirement. The three units may be applied to the 18 units required in general education.

This requirement is met by completing one of the following courses (these courses are also on the District General Education list).

Course Subject and Number	Course Title	College
^ AAPI 124	Introduction to Asian American and Pacific Islander Studies	C, M, MMR

Course Subject and Number	Course Title	College
^ AAPI 125	Asian American and Pacific Islander Identities and Cultures	M
^ AAPI 130	Asian American and Pacific Islander Women	M
^ ADJU 106	Diversity and Community Relations	MMR
^ AMSL 150	Introduction to Deaf Culture	M
^ ANTH 103	Introduction to Cultural Anthropology	C, M, MMR
^ ANTH 200	Introduction to North American Indians	M
^ ANTH 210	Introduction to the Indigenous People of California	C, M
^ ARTF 113	Arts of Africa, Oceania, and the Americas	M, MMR
^ ARTF 115	African Art	C, M
^ ARTF 120	Native American Art	M
^ BLAS 100	Introduction to Black Studies	C, M, MMR
^ BLAS 104	Black Psychology	C, M, MMR
^ BLAS 110	African American Art	C, M
^ BLAS 111	Cultural Influences on African Art	M
^ BLAS 115	Sociology from a Black Perspective	C
^ BLAS 116	Contemporary Social Problems from a Black Perspective	C, M
^ BLAS 120	Black Music	C, M
^ BLAS 125	Dynamics of the Black Community	M
^ BLAS 130	The Black Family	C, M
^ BLAS 135	Introduction to Black Politics	C
^ BLAS 140A	African American History to Reconstruction	C, M, MMR
^ BLAS 140B	African American History since Reconstruction to the Present	C, M, MMR
^ BLAS 145A	Introduction to African History	C, M
^ BLAS 145B	Introduction to African History	C
^ BLAS 150	Black Women in Literature, Film and the Media	C, M, MMR
^ BLAS 155	African American Literature	C, M, MMR
^ CHIC 110A	Introduction to Chicana and Chicano Studies	C, M, MMR

Course Subject and Number	Course Title	College
^ CHIC 110B	Introduction to Chicano Studies	C, M
^ CHIC 135	Chicana/o Literature	C, M, MMR
^ CHIC 140	Chicana/o Sociology	C, M
^ CHIC 141A	United States History from a Chicano Perspective	C, M, MMR
^ CHIC 141B	United States History from a Chicano Perspective	C, M, MMR
^ CHIC 155	Introduction to Central American Studies	M
^ CHIC 190	Chicano Images in Film	C, M
^ CHIC 210	Chicano Culture	C, M
^ CHIC 250	Introduction to Chicana/o Dramatic Art	C, M
^ CHIL 141	The Child, Family and Community	C, M, MMR
^ COMS 180	Intercultural Communication	C, M, MMR
^ DRAM 109	Theatre and Social Issues	C, M
^ ENGL 202	Introduction to Linguistics	C, M
^ ENGL 230	Asian American Literature	M, MMR
^ ENGL 234	Hip Hop Literature: A Poetry Class	C, M, MMR
^ FASH 122	Ethnic Costume	M
^ FILI 100	Filipino American Experience	M, MMR
^ FILI 101	Filipino American Psychology	MMR
^ GEND 101	Introduction to Gender Studies	C, MMR
^ GEOG 102	Cultural Geography	C, M, MMR
^ HIST 115A	History of the Americas I	C, M, MMR
^ HIST 115B	History of the Americas II	C, M, MMR
^ HIST 120	Introduction to Asian Civilizations	C, M, MMR
^ HIST 121	Asian Civilizations in Modern Times	C, M, MMR
^ HIST 123	U.S. History from the Asian Pacific American Perspective	C, M, MMR
^ HIST 130	The Modern Middle East	M
^ HIST 150	Native Americans in United States History I	M
^ HIST 151	Native Americans in United States History II	M

Course Subject and Number	Course Title	College
^ INTE 125	History of Furniture and Interiors	M
^ MUSI 109	World Music	C, M, MMR
^ MUSI 217A	Gospel Choir I	MMR
^ MUSI 217B	Gospel Choir II	MMR
^ MUSI 217C	Gospel Choir III	MMR
^ MUSI 217D	Gospel Choir IV	MMR
^ NUTR 153	Cultural Foods	C, M
^ PHIL 125	Philosophy of Women	C, M
^ POLI 103	Comparative Politics	C, M, MMR
^ POLI 121	Amerian Political Development	C, M, MMR
^ POLI 140	Contemporary International Politics	C, M, MMR
^ SOCO 101	Principles of Sociology	C, M, MMR
^ SOCO 110	Contemporary Social Problems	C, M, MMR
^ SOCO 125	Sociology of the Family	C, M
^ SOCO 150	Sociology of Latinos/Latinas	C, M
^ SOCO 207	Introduction to Race and Ethnicity	C, M, MMR
^ SOCO 223	Globalization and Social Change	C, M, MMR
^ WMNS 101	Introduction to Gender and Women's Studies	M

General Education Requirements Defined

The Associate Degree provides a framework within which students complete patterns of learning experiences designed to develop capabilities and insights to support their academic and career goals. Among these capabilities and insights are competencies that are germane to all aspects of higher education and comprise a "general education" curriculum, such as the ability to think critically and to communicate clearly and effectively both orally and in writing, to use quantitative reasoning, understand the modes of inquiry of the major disciplines, to be aware of other cultures and times, to achieve insights gained through experience in thinking about ethical problems, and to develop the capacity for self-understanding.

Furthermore, general education introduces students to the variety of means through which people comprehend the modern world. It reflects the conviction of colleges that those who receive their degrees must have mastered principles, concepts, and methodologies both unique to and shared by the various disciplines. A general education program should create coherence and integration among the separate requirements and involve students actively in examining values inherent in proposed solutions to major social problems. General Education Requirements Title 5 Section 55063:

(1) English Composition, Oral Communication, and Critical Thinking

(minimum of 6 semester/8 quarter units) including:

(1A) English Composition

(minimum of 3 semester/4 quarter units).

Courses fulfilling this requirement must be baccalaureate-level and include expository and argumentative writing.

(1B) Oral Communication and Critical Thinking

(minimum of 3 semester / 4 quarter units).

Courses fulfilling this requirement must be baccalaureate-level and may include oral communication and critical thinking courses.

Students who complete English Composition, Oral Communication, and Critical Thinking courses will be able to:

- demonstrate an understanding of the principles of clear and coherent communication
- use verbal and non-verbal languages in a clear and precise manner
- develop logical and rational thinking skills while analyzing and communicating processes

- evaluate different quantitative and qualitative symbol expressions and systems

(2) Mathematical Concepts and Quantitative Reasoning

(minimum of 3 semester / 4 quarter units).

Courses fulfilling this requirement must be at least college-level and may include mathematics or quantitative reasoning courses, including logic, statistics, computer languages, and relate disciplines.

Students who complete Mathematical Concepts and Quantitative Reasoning courses will be able to:

- evaluate different quantitative and qualitative symbol expressions and systems

(3) Arts and Humanities

(minimum of 3 semester / 4 quarter units).

Courses in the humanities study the cultural activities and artistic expressions of human beings.

Such courses develop students' awareness of how people throughout the ages and in different cultures respond to themselves and the world around them in artistic and cultural creation, and develop students' aesthetic understandings and abilities to make value judgments. Courses fulfilling this requirement may include introductory or integrative baccalaureate-level courses in the visual and performing arts, art history, foreign languages, literature, philosophy, religion, and related disciplines.

Students who complete arts and humanities general education courses will be able to:

- express understanding and appreciation of varieties of cultural and artistic expression
- articulate an understanding of the complex relationships between the arts and their cultural, historical, and economic contexts
- evaluate the various elements of artistic works

(4) Social and Behavioral Sciences

(minimum of 3 semester / 4 quarter units).

Courses in the social and behavioral sciences focus on people as members of society and develop awareness of the methods of inquiry used by the social and behavioral

sciences. They stimulate critical thinking about how people act and have acted in response to their societies and promote appreciation of how societies and social subgroups operate. Courses fulfilling this requirement may include introductory or integrative baccalaureate-level courses in cultural anthropology, cultural geography, economics, history, political science, psychology, sociology, and related disciplines.

Students who complete social and behavioral sciences general education courses will be able to:

- express understanding of how people act and have acted in response to their societies and the natural environment
- articulate how societies and social subgroups operate in specific historical and contemporary contexts
- use methods of inquiry and measurement appropriate to the particular discipline being studied

(5) Natural Sciences

(minimum of 3 semester / 4 quarter units).

Courses in the natural sciences examine the physical universe, its life forms, and its natural phenomena, helping students appreciate and understand the scientific method and the relationships between science and other human activities. Courses fulfilling this

requirement may include introductory or integrative baccalaureate-level courses in astronomy, biology, chemistry, general physical science, geology, meteorology, oceanography, physical geography, physical anthropology, physics, and other scientific disciplines.

Students who complete natural sciences general education courses will be able to:

- demonstrate an understanding and appreciation of the scientific method
- express an understanding of the relationships between science and other human activities
- examine the natural physical world and its life forms in a variety of courses
- utilize critical thinking skills in a variety of scientific applications

(6) Ethnic Studies

(minimum of 3 semester/4 quarter units).

Courses fulfilling this requirement may include baccalaureate-level courses in the four autonomous disciplines within Ethnic Studies: Black Studies, African American Studies, Africana Studies; Native American Studies; Chicano/a/x, Latino/a/x Studies/La Raza Studies; and Asian American Studies.

General Education Requirements (Option 1 and 4)

A minimum of 21 semester units (28 – 31.5 quarter units)

⁰ Colleges in parenthesis indicate where the course is approved for General Education Requirements.

C-City College

M-Mesa College

MMR-Miramar College

[^] Courses with a caret fulfill District multicultural studies graduation requirement.

^{*} Courses with an asterisk may satisfy more than one area and/or general education requirement but may not be counted more than once for this.

Students selecting General Education Option 1 or Option 4 must fulfill the general education requirements outlined below. Additionally, students choosing Option 1 must complete the District Requirements, as detailed in the District Requirements section of this catalog.

Note: Courses may meet multiple requirements, including general education, a major or area of emphasis, and additional requirements. However, one course may not be counted in more than one general education area, even if the course is approved in multiple general education areas. Students may use the same course to meet a local general education requirement and to satisfy a general education requirement at the California State University or the University of California if that segment accepts the course for this purpose.

The following information is based on **2025–2026** course offerings and is subject to change. Please contact the Counseling Department for updates.

The State of California requires the completion of a minimum of 21 units of general education with at least a 2.0 grade point average. One course must be selected from each of the following areas: English Composition; Oral Communication and Critical Thinking; Mathematical Concepts and Quantitative Reasoning; Arts and Humanities; Social and Behavioral Sciences; Natural Sciences; and Ethnic Studies.

English Composition, Oral Communication, and Critical Thinking

(minimum of 6 semester units/8 quarter units Including:

(1A) English Composition

(minimum of 3 semester/4 quarter units). Courses fulfilling this requirement must be baccalaureate-level and include expository and argumentative writing.

ENGL C1000	Academic Reading and Writing	(C, M, MMR)
ENGL 105	Composition and Literature	(C, M, MMR)

(1B) Oral Communication and Critical Thinking

(minimum of 3 semester / 4 quarter units)

COMM C1000	Introduction to Public Speaking	(C, M, MMR)
COMS 135	Interpersonal Communication	(C, M, MMR)
COMS 160	Argumentation and Critical Thinking	(C, M, MMR)
COMS 170	Small Group Communication	(C, M, MMR)
^ COMS 180	Intercultural Communication	(C, M, MMR)
ENGL C1001	Academic Reading and Writing	(C, M, MMR)
HIST 205	Methodology and Practice in History	(M)
PHIL 100	Logic and Critical Thinking	(C, M, MMR)
PHIL 205	Critical Thinking and Writing	(C, M, MMR)

(2) Mathematical Concepts and Quantitative Reasoning

(minimum of 3 semester / 4 quarter units)

BANK 103	Introduction to Investments	(MMR)
BIOL 200	Biological Statistics	(M)

BUSE 101	Business Mathematics	(C, M, MMR)
BUSE 115	Statistics for Business	(C, M, MMR)
CHEM 251	Quantitative Analytical Chemistry	(C, M, MMR)
CISC 150	Introduction to Computer and Information Sciences	(C, M)
CISC 181	Principles of Information Systems	(C, M, MMR)
CISC 187	Data Structures in C++	(C, M, MMR)
CISC 190	Java Programming	(C, M, MMR)
CISC 192	C/C++ Programming	(C, M, MMR)
CISC 201	Advanced C++ Programming	(C, M)
CISC 205	Object Oriented Programming using C++	(C)
CISC 246	Discrete Mathematics for Computer Science	(M, MMR)
ECON 120	Principles of Macroeconomics	(C, M, MMR)
ECON 121	Principles of Microeconomics	(C, M, MMR)
ENGE 151	Engineering Drawing	(C, M)
ENGE 200	Statics	(C, M)
ENGE 240	Digital Systems	(C, M)
ENGE 250	Dynamics	(C, M)
ENGE 260	Electric Circuits	(C, M)
GISG 104	Geographic Information Science and Spatial Reasoning	(C, M)
HEIT 256	Statistics for Healthcare	(M)
MATH 92	Applied Beginning and Intermediate Algebra (City Apprenticeship Students Only)	(C)
MATH 96	Intermediate Algebra and Geometry (City Apprenticeship Students Only)	(C)
MATH 98	Technical Algebra and Geometry (City Apprenticeship Students Only)	(C)
MATH 104	Trigonometry	(C, M, MMR)
MATH 107	Introduction to Scientific Programming	(C)
MATH 107L	Introduction to Scientific Programming Lab	(C)
MATH 109	Explorations in Mathematical Statistics	(C)

MATH 115	Gateway to Experimental Statistics	(C)
MATH 116	College and Matrix Algebra	(C, M, MMR)
MATH 118	Math for the Liberal Arts Student	(C, M, MMR)
MATH 121	Basic Techniques of Applied Calculus I	(C, M, MMR)
MATH 122	Basic Techniques of Applied Calculus II	(C, M, MMR)
MATH 141	Precalculus	(C, M, MMR)
MATH 150	Calculus with Analytic Geometry I	(C, M, MMR)
MATH 151	Calculus with Analytic Geometry II	(C, M, MMR)
MATH 210A	Concepts of Elementary School Mathematics I	(C, M)
MATH 210B	Concepts of Elementary School Mathematics II	(C, M)
MATH 215	Introduction to Teaching Mathematics	(M)
MATH 245	Discrete Mathematics	(C, M, MMR)
MATH 252	Calculus with Analytic Geometry III	(C, M, MMR)
MATH 254	Introduction to Linear Algebra	(C, M, MMR)
MATH 255	Differential Equations	(C, M, MMR)
MFET 210	Statistical Process Control	(C)
MFET 220	Programmable Logic Controllers	(C)
PHIL 101	Symbolic Logic	(C, M, MMR)
PHYS 125	General Physics	(C, M, MMR)
PHYS 126	General Physics II	(C, M, MMR)
PHYS 180A	General Physics I	(C, M, MMR)
PHYS 180B	General Physics II	(C, M, MMR)
PHYS 195	Mechanics	(C, M, MMR)
PHYS 196	Electricity and Magnetism	(C, M, MMR)
PHYS 197	Waves, Optics and Modern Physics	(C, M, MMR)
POLI 201	Elementary Statistics for Political Science	(C, M)
PSYC 258	Behavioral Science Statistics	(C, M, MMR)
STAT C1000	Introduction to Statistics	(C, M, MMR)

(3) Arts and Humanities

(minimum of 3 semester / 4 quarter units)

^	AAPI 124	Introduction to Asian American and Pacific Islander Studies	(C, M, MMR)
	AMSL 120	American Sign Language Level I	(C, M, MMR)
	AMSL 121	American Sign Language Level II	(C, M, MMR)
	AMSL 220	American Sign Language Level III	(C, M)
	AMSL 221	American Sign Language Level IV	(C, M)
	ARAB 101	First Course in Arabic	(C)
	ARAB 102	Second Course in Arabic	(C)
	ARAB 201A	Third Course in Arabic	(C)
	ARCH 126	History of Ancient World Architecture	(M)
	ARCH 127	History of World Architecture: Renaissance Through Contemporary	(M)
	ARTF 100	Art Orientation	(C, M, MMR)
	ARTF 106	Art of the United States: Colonial to Modern Period	(M)
	ARTF 107	Contemporary Art	(M, MMR)
	ARTF 108	Women in Art	(M)
	ARTF 109	Modern Art	(C, M, MMR)
	ARTF 110	Art History: Prehistoric to Gothic	(C, M, MMR)
	ARTF 111	Art History: Renaissance to Modern	(C, M, MMR)
^	ARTF 113	Arts of Africa, Oceania, and the Americas	(M, MMR)
^	ARTF 115	African Art	(C, M)
^	ARTF 120	Native American Art	(M)
	ARTF 125	Art History: Arts of the Asian Continent	(C, M, MMR)
	ARTF 130	Pre-Columbian Art	(M)
	ARTF 188	Women and Gender in Photography	(M)
	ARTF 191	Cultural Influences on Photography	(M)
	ARTF 194	Critical Photography	(M)
	ARTF 212	Sustainable Art and Design	(C)

^	BLAS 110	African American Art	(C, M)
^	BLAS 111	Cultural Influences on African Art	(M)
^	BLAS 120	Black Music	(C, M)
^	BLAS 150	Black Women in Literature, Film and the Media	(C, M, MMR)
^	BLAS 155	African American Literature	(C, M, MMR)
	CHIC 130	Mexican Literature in Translation	(C, M)
^	CHIC 135	Chicana/o Literature	(C, M, MMR)
	CHIC 138	Literature of La Raza in Latin America in Translation	(C, M)
^	CHIC 190	Chicano Images in Film	(C, M)
^*	CHIC 210	Chicano Culture	(C, M)
	CHIC 230	Chicano Art	(C, M)
	CHIN 101	First Course in Mandarin Chinese	(M)
	CHIN 102	Second Course in Mandarin Chinese	(M)
	CHIN 201	Third Course in Mandarin Chinese	(M)
	CHIN 202	Fourth Course in Mandarin Chinese	(M)
	DANC 181	History of Dance	(C, M)
	DFLM 101	Introduction to Film	(MMR)
	DFLM 102	The American Cinema	(MMR)
	DRAM 105	Introduction to Dramatic Arts	(C, M)
	DRAM 107	Study of Filmed Plays	(C, M)
	DRAM 108	Playwriting	(C, M)
^	DRAM 109	Theatre and Social Issues	(C, M)
	DRAM 111	Chicana/o Theatre	(C)
	DRAM 136	History of Canonized Theatre - Ancient Greece to the Restoration	(C, M)
	DRAM 137	History of Canonized Western Theatre - Restoration to the Present	(C, M)
	DRAM 150	Cinema as Art and Communication I	(M)
	DRAM 151	Cinema as Art and Communication II	(M)
	DRAM 205	The American Musical on Stage and Screen	(C, M)

	DSGN 104	Graphic Design History	(C)
	ENGL 207	The Art of the Sentence	(M)
	ENGL 208	Introduction to Literature	(C, M, MMR)
	ENGL 209	Literary Approaches to Film	(C, M, MMR)
	ENGL 210	American Literature I	(C, M, MMR)
	ENGL 211	American Literature II	(C, M, MMR)
	ENGL 215	English Literature I: 800-1799	(C, M, MMR)
	ENGL 216	English Literature II: 1800-Present	(C, M, MMR)
	ENGL 220	Masterpieces of World Literature I: 1500 BCE-1600 CE	(C, M, MMR)
	ENGL 221	Masterpieces of World Literature II: 1600-Present	(C, M, MMR)
^	ENGL 230	Asian American Literature	(M, MMR)
^	ENGL 234	Hip Hop Literature: A Poetry Class	(C, M, MMR)
	ENGL 237	Women in Literature	(C, M, MMR)
	ENGL 238	Evaluating Children's Literature	(C)
	ENGL 240	Shakespeare	(C, M)
	FASH 120	Fashion History and Trends	(M)
^	FASH 122	Ethnic Costume	(M)
	FJMP 100	Introduction to Cinema	(C)
	FREN 101	First Course in French	(C, M)
	FREN 102	Second Course in French	(C, M)
	FREN 201	Third Course in French	(C, M)
	FREN 202	Fourth Course in French	(C, M)
	GERM 101	First Course in German	(C, M)
	GERM 102	Second Course in German	(C, M)
	GERM 201	Third Course in German	(C, M)
*	HIST 100	World History I	(C, M, MMR)
*	HIST 101	World History II	(C, M, MMR)
*	HIST 105	Introduction to Western Civilization I	(C, M, MMR)
*	HIST 106	Introduction to Western Civilization II	(C, M, MMR)

^*	HIST 120	Introduction to Asian Civilizations	(C, M, MMR)
^*	HIST 121	Asian Civilizations in Modern Times	(C, M, MMR)
^*	HIST 123	U.S. History from the Asian Pacific American Perspective	(C, M, MMR)
*	HIST 131	Latin America Before Independence	(M)
*	HIST 132	Latin America Since Independence	(M)
	HUMA 101	Introduction to the Humanities I	(C, M, MMR)
	HUMA 102	Introduction to the Humanities II	(C, M, MMR)
	HUMA 103	Introduction to the New Testament	(C, M)
	HUMA 104	Introduction to the Old Testament	(M)
	HUMA 106	World Religions	(C, M, MMR)
	HUMA 118	Eastern Humanities	(M)
	HUMA 119	Western Humanities	(M)
	HUMA 201	Mythology	(C, M, MMR)
	HUMA 202	Mythology: Hero's Journey	(C)
	HUMA 205	Exploring Human Values Through Film	(M)
	HUMA 210	Women in Religion and Myth	(M)
^	INTE 125	History of Furniture and Interiors	(M)
	ITAL 101	First Course in Italian	(C,M)
	ITAL 102	Second Course in Italian	(C,M)
	ITAL 201	Third Course in Italian	(C,M)
	JAPN 101	First Course in Japanese	(M)
	JAPN 102	Second Course in Japanese	(M)
	JAPN 201	Third Course in Japanese	(M)
	JAPN 202	Fourth Course in Japanese	(M)
	MULT 116	Unity Game Development	(M)
	MUSI 100	Introduction to Music	(C, M, MMR)
	MUSI 103	History of Rock Music	(C, M, MMR)
^	MUSI 109	World Music	(C, M, MMR)
	MUSI 111	Jazz History	(C, M, MMR)

MUSI 114	Music of The Beatles	(M)
MUSI 117	Music in the United States	(M)
MUSI 118	Asian & Pacific Music	(M)
MUSI 119	Music in Latin America & North America	(M)
MUSI 125	Music, the Arts, and Society	(M)
MUSI 126	Rap Music and Hip Hop Culture	(M)
MUSI 131	Music of California	(M)
MUSI 138	Women in Music	(M)
PHIL 102A	Introduction to Philosophy: Reality and Knowledge	(C, M, MMR)
PHIL 102B	Introduction to Philosophy: Values	(C, M, MMR)
PHIL 103	Historical Introduction to Philosophy	(M)
PHIL 104A	History Of Western Philosophy: Ancient to Medieval	(C, M, MMR)
PHIL 104B	History of Western Philosophy: Modern to Contemporary	(C, M)
PHIL 105	Contemporary Philosophy	(C, M)
PHIL 106	Asian Philosophy	(C, M)
PHIL 107	Reflections on Human Nature	(C, M, MMR)
* PHIL 108	Perspectives on Human Nature and Society	(C, M)
PHIL 110	Philosophy of Religion	(M)
PHIL 111	Philosophy In Literature and Other Fiction	(C, M)
PHIL 112	Philosophy of Science	(M)
^* PHIL 125	Philosophy of Women	(C, M)
PHIL 130	Philosophy of Art and Music	(C, M)
PHIL 131	Environmental Ethnics	(C, M, MMR)
PHOT 150	History of Photography	(C)
RUSS 101	First Course in Russian	(C, M)
RUSS 102	Second Course in Russian	(C, M)
RUSS 201	Third Course in Russian	(C, M)
SPAN 101	First Course in Spanish	(C, M, MMR)
SPAN 102	Second Course in Spanish	(C, M, MMR)

SPAN 201	Third Course in Spanish	(C, M, MMR)
SPAN 202	Fourth Course in Spanish	(C, M, MMR)
SPAN 215	Spanish for Spanish Speakers I	(C, M)
SPAN 216	Spanish for Spanish Speakers II	(C, M)
SPAN 221	Hispanic Literature for Spanish Speakers	(M)
SPAN 222	Hispanic Culture and Civilization for Spanish Speakers	(M)
TAGA 101	First Course in Tagalog	(MMR)
TAGA 102	Second Course in Tagalog	(MMR)
TAGA 201	Third Course in Tagalog	(MMR)
VIET 101	First Course in Vietnamese	(M)
VIET 102	Second Course in Vietnamese	(M)
VIET 201	Third Course in Vietnamese	(M)

(4) Social and Behavioral Sciences

(minimum of 3 semester / 4 quarter units)

*^	AAPI 124	Introduction to Asian American and Pacific Islander Studies	(C, M, MMR)
*^	AAPI 125	Asian American and Pacific Islander Identities and Cultures	(M)
^	AAPI 130	Asian American and Pacific Islander Women	(M)
	ADJU 101	Introduction to Administration of Justice	(C, MMR)
^	ADJU 106	Diversity and Community Relations	(MMR)
	ADJU 230	Constitutional Law I	(MMR)
	AGRI 100	Principles of Sustainable Agriculture	(C)
^	AMSL 150	Introduction to Deaf Culture	(M)
^	ANTH 103	Introduction to Cultural Anthropology	(C, M, MMR)
	ANTH 107	Introduction to Archaeology	(C, M, MMR)
	ANTH 110	Anthropology of Magic, Witchcraft, and Religion	(C, M)
	ANTH 117	Anthropology of Gender and Sexuality	(M)
	ANTH 140	Primatology	(C, M)
^	ANTH 200	Introduction to North American Indians	(M)

	ANTH 205	Introduction to Medical Anthropology	(M)
^	ANTH 210	Introduction to California Indians	(C, M)
	ANTH 215	Cultures of Latin America	(C, M)
^*	BLAS 100	Introduction to Black Studies	(C, M, MMR)
^	BLAS 104	Black Psychology	(C, M, MMR)
^	BLAS 115	Sociology from a Black Perspective	(C)
^	BLAS 116	Contemporary Social Problems from a Black Perspective	(C, M)
^	BLAS 125	Dynamics of the Black Community	(M)
^	BLAS 130	The Black Family	(C, M)
^	BLAS 135	Introduction to Black Politics	(C)
^	BLAS 140A	African American History to Reconstruction	(C, M, MMR)
^	BLAS 140B	African American History since Reconstruction to the Present	(C, M, MMR)
^	BLAS 145A	Introduction to African History	(C, M)
^	BLAS 145B	Introduction to African History	(C, M)
	BLAS 165	Sexuality and Black Culture	(C, M)
	BLAS 175	Psycho-History of Racism and Sexism	(M)
	BUSE 100	Introduction to Business	(C, M, MMR)
	BUSE 140	Business Law and the Legal Environment	(C, M, MMR)
^*	CHIC 110A	Introduction to Chicana and Chicano Studies	(C, M, MMR)
^*	CHIC 110B	Introduction to Chicano Studies	(C, M)
^	CHIC 140	Chicana/o Sociology	(C, M)
^	CHIC 141A	United States History from a Chicano Perspective	(C, M, MMR)
^	CHIC 141B	United States History from a Chicano Perspective	(C, M, MMR)
	CHIC 150	History of Mexico	(C, M)
^	CHIC 155	Introduction to Central American Studies	(M)
	CHIC 170	La Chicana	(C, M, MMR)
	CHIC 201	The Indigenous Tradition of Mexico and Ancient Mesoamerica	(C, M)
^*	CHIC 210	Chicano Culture	(C, M)

	CHIL 101	Human Growth and Development	(C, M, MMR)
	CHIL 103	Lifespan Growth and Development	(MMR)
^	CHIL 141	The Child, Family and Community	(C, M, MMR)
	COMS 201	Communication and Community	(C, MMR)
	CRES 101	Conflict Resolution and Mediation	(C)
	DSST 101	Introduction to Disability Studies	(C)
	ECON 120	Principles of Macroeconomics	(C, M, MMR)
	ECON 121	Principles of Microeconomics	(C, M, MMR)
	ECON 220	Economics of the Environment	(C, M)
^	ENGL 202	Introduction to Linguistics	(C, M)
^*	FILI 100	Filipino American Experience	(M, MMR)
	FJMP 101	Introduction to Mass Media	(C)
^	GEND 101	Introduction to Gender Studies	(C, MMR)
^	GEOG 102	Cultural Geography	(C, M, MMR)
	GEOG 104	World Regional Geography	(C, M, MMR)
	GEOG 154	Introduction to Urban Geography	(C, M)
*	HIST 100	World History I	(C, M, MMR)
*	HIST 101	World History II	(C, M, MMR)
*	HIST 105	Introduction to Western Civilization I	(C, M, MMR)
	HIST 106	Introduction to Western Civilization II	(C, M, MMR)
	HIST 109	History of the United States I	(C, M, MMR)
	HIST 110	History of the United States II	(C, M, MMR)
^	HIST 115A	History of the Americas I	(C, M, MMR)
^	HIST 115B	History of the Americas II	(C, M, MMR)
^*	HIST 120	Introduction to Asian Civilization	(C, M, MMR)
^*	HIST 121	Asian Civilizations in Modern Times	(C, M, MMR)
^*	HIST 123	U.S. History from the Asian Pacific American Perspective	(C, M, MMR)
^	HIST 130	The Modern Middle East	(M)
*	HIST 131	Latin America Before Independence	(M)

*	HIST 132	Latin America Since Independence	(M)
	HIST 135	History of Technology	(M)
	HIST 141	Women in United States History I	(M, MMR)
	HIST 142	Women in United States History II	(M, MMR)
^	HIST 150	Native Americans in United States History I	(M)
^	HIST 151	Native Americans in United States History II	(M)
	HIST 154	Ancient Egypt	(M)
	HIST 175	California History	(M)
	HUMS 101	Introduction to Human Aging	(C)
	JOUR 202	Introduction to Mass Communication	(C, M, MMR)
^	NUTR 153	Cultural Foods	(M)
	PADM 110	Introduction to Law and Society	(C, M)
	PADM 200	Introduction to Public Administration	(C, MMR)
	PEAC 101	Introduction to Peace Studies	(C)
*	PHIL 108	Perspectives on Human Nature and Society	(C, M)
	PHIL 109	Issues in Social Philosophy	(M)
^*	PHIL 125	Philosophy of Women	(C, M)
	PHIL 126	Introduction to Philosophy of Contemporary Gender Issues	(C, M)
	POLI 101	Introduction to Political Science	(C, M, MMR)
^	POLI 103	Comparative Politics	(C, M, MMR)
^	POLI 121	American Political Development	(C, M, MMR)
	POLI 123	Gender and Politics	(M)
	POLI 124	Power and Justice: An Introduction to Political Theory	(C, M)
^	POLI 140	Contemporary International Politics	(C, M, MMR)
	POLS C1000	American Government and Politics	(C, M, MMR)
	PSYC 101	General Psychology	(C, M, MMR)
	PSYC 111	Psychological /Social Aspects of Aging, Death and Dying	(C, M)
	PSYC 112	Interpersonal Relations	(M)
	PSYC 121	Introduction to Child Psychology	(M)

PSYC 123	Adolescent Psychology	(C, MMR)
PSYC 133	Psychology of Women	(M, MMR)
PSYC 135	Marriage and Family Relations	(C, M, MMR)
PSYC 137	Human Sexual Behavior	(C, M, MMR)
PSYC 155	Introduction to Personality	(C, M, MMR)
PSYC 166	Introduction to Social Psychology	(C, M, MMR)
PSYC 211	Learning	(C, M, MMR)
PSYC 230	Psychology of Lifespan Development	(C, M, MMR)
PSYC 245	Abnormal Psychology	(C, M, MMR)
PSYC 283	Introduction to Cognitive Psychology	(C, M, MMR)
^ SOCO 101	Principles of Sociology	(C, M, MMR)
^ SOCO 110	Contemporary Social Problems	(C, M, MMR)
^ SOCO 125	Sociology of the Family	(C, M)
SOCO 145	Health and Society	(C, M, MMR)
^ SOCO 150	Sociology of Latinos/Latinas	(C, M)
SOCO 201	Advanced Principles of Sociology	(C, M, MMR)
^ SOCO 207	Introduction to Race and Ethnicity	(C, M, MMR)
SOCO 220	Introduction to Research Methods in Sociology	(C, M, MMR)
^ SOCO 223	Globalization and Social Change	(C, M, MMR)
SUST 101	Introduction to Sustainability	(C, M, MMR)
^ WMNS 101	Introduction to Gender and Women's Studies	(M)

(5) Natural Sciences

(minimum of 3 semester / 4 quarter units)

AGRI 107	Introduction to Agricultural Plant Science	(C)
AGRI 125	Introduction to Soil Science	(C)
ANTH 102	Introduction to Biological Anthropology	(C, M, MMR)
ANTH 104	Laboratory in Biological Anthropology	(C, M, MMR)
ASTR 101	Descriptive Astronomy	(C, M, MMR)

ASTR 102	Exploring the Solar System and Life Beyond The Earth	(C, M, MMR)
ASTR 109	Practice in Observing - Laboratory	(C, M, MMR)
ASTR 111	Astronomy Laboratory	(C, M, MMR)
AVIA 115	Aviation Weather	(MMR)
BIOL 100	Natural History – Environmental	(M, MMR)
BIOL 101	Issues in Environmental Science & Sustainability	(C, MMR)
BIOL 107	General Biology- Lecture and Laboratory	(C, M, MMR)
BIOL 110	Introduction to Oceanography	(C, M)
BIOL 111	Cancer Biology	(C)
BIOL 115	Marine Biology	(C, M, MMR)
BIOL 120	The Environment of Man	(M)
BIOL 130	Human Heredity	(C, M, MMR)
BIOL 131	Introduction to Biotechnology	(MMR)
BIOL 135	Biology of Human Nutrition	(C, MMR)
BIOL 160	Elements of Human Anatomy & Physiology	(M, MMR)
BIOL 180	Plants and People	(C, M, MMR)
BIOL 205	General Microbiology	(C, M, MMR)
BIOL 210A	Introduction to the Biological Sciences I	(C, M, MMR)
BIOL 210B	Introduction to the Biological Sciences II	(C, M, MMR)
BIOL 215	Introduction to Zoology	(M)
BIOL 230	Human Anatomy	(C, M, MMR)
BIOL 235	Human Physiology	(C, M, MMR)
BIOL 250	Introduction to Botany	(M)
CHEM 100	Fundamentals of Chemistry	(C, M, MMR)
CHEM 100L	Fundamentals of Chemistry - Laboratory	(C, M, MMR)
CHEM 103	General, Organic, and Biological Chemistry	(M, MMR)
CHEM 111	Chemistry in Society	(C, M, MMR)
CHEM 111L	Chemistry and Society Laboratory	(C, M)
CHEM 130	Introduction to Organic & Biological Chemistry	(C, M, MMR)

CHEM 130L	Introduction to Organic & Biological Chemistry	(C, M, MMR)
CHEM 152	Introduction to General Chemistry	(C, M, MMR)
CHEM 152L	Introduction to General Chemistry	(C, M, MMR)
CHEM 160	Introductory Biochemistry	(M, MMR)
CHEM 200	General Chemistry I- Lecture	(C, M, MMR)
CHEM 200L	General Chemistry I- Laboratory	(C, M, MMR)
CHEM 201	General Chemistry II- Lecture	(C, M, MMR)
CHEM 201L	General Chemistry II- Laboratory	(C, M, MMR)
CHEM 231	Organic Chemistry I- Lecture	(C, M, MMR)
CHEM 231L	Organic Chemistry I- Laboratory	(C, M, MMR)
CHEM 233	Organic Chemistry II- Lecture	(C, M, MMR)
CHEM 233L	Organic Chemistry II- Laboratory	(C, M, MMR)
CHEM 251	Quantitative Analytical Chemistry	(C, M, MMR)
GEOG 101	Physical Geography	(C, M, MMR)
GEOG 101L	Physical Geography	(C, M, MMR)
GEOL 100	Physical Geology	(C, M, MMR)
GEOL 101	Physical Geology Laboratory	(C, M, MMR)
GEOL 104	Earth Science	(C, M, MMR)
GEOL 111	The Earth Through Time	(C, M, MMR)
GEOL 120	Earth Science	(C, M)
GEOL 130	Field Geology of San Diego County	(C, M, MMR)
MEDA 55	Fundamentals Human Anatomy and Physiology	(M)
NUTR 150	Nutrition	(C, M, MMR)
NUTR 155	Advanced Nutrition	(M, MMR)
OCEA 101	The Oceans	(M, MMR)
PHYN 100	Survey of Physical Science	(C, M, MMR)
PHYN 101	Survey of Physical Science Laboratory	(C, M, MMR)
PHYN 105	Physical Science for Elementary Education	(M, MMR)
PHYN 114	Weather and Climate	(C, M, MMR)

PHYS 100	Introductory Physics	(C, M)
PHYS 125	General Physics	(C, M, MMR)
PHYS 126	General Physics II	(C, M, MMR)
PHYS 180A	General Physics I	(C, M, MMR)
PHYS 180B	General Physics II	(C, M, MMR)
PHYS 181A	General Physics Lab I	(C, M, MMR)
PHYS 181B	General Physics Lab II	(C, M, MMR)
PHYS 195	Mechanics	(C, M, MMR)
PHYS 196	Electricity and Magnetism	(C, M, MMR)
PHYS 197	Waves, Optics and Modern Physics	(C, M, MMR)
PSYC 260	Introduction to Physiological Psychology	(C, M, MMR)
PSYC 260L	Introduction to Physiological Psychology Laboratory	(M)

(6) Ethnic Studies

(minimum of 3 semester / 4 quarter units)

^* AAPI 124	Introduction to Asian American and Pacific Islander Studies	(C, M, MMR)
^* AAPI 125	Asian American and Pacific Islander Identities and Cultures	(M)
AAPI 130	Asian American and Pacific Islander Women	(M)
^* BLAS 100	Introduction to Black Studies	(C, M, MMR)
^* BLAS 140A	African American History to Reconstruction	(C, M, MMR)
^* BLAS 140B	African American History since Reconstruction to the Present	(C, M, MMR)
^* CHIC 110A	Introduction to Chicana and Chicano Studies	(C, M, MMR)
^* CHIC 110B	Introduction to Chicana and Chicano Studies	(C, M)
^* FILI 100	Filipino American Experience	(M, MMR)

Certificate of Achievement

On the recommendation of the faculty, the colleges of the San Diego Community College District award the Certificate of Achievement to students who complete

the specified requirements. Programs in which a Certificate of Achievement may be awarded are described in the Degree Curricula and Certificate

Programs section of this catalog. Certificate programs are designed for students with specific personal or occupational goals. To qualify for the Certificate of Achievement, students must satisfy the following requirements:

1. Meet all standards for admission to the desired certificate program;

2. Earn a grade of "C" or higher in each course. A "P" (pass) grade meets this requirement; and
3. A minimum of six semester units of the required courses for the major must be completed at City, Mesa or Miramar College.

Certificate of Performance

Programs in which a Certificate of Performance may be awarded are described in the Degree Curricula and Certificate Programs section of this catalog. A Certificate of Performance recognizes the attainment of knowledge and/or skill through the successful completion of two or more courses as specified by a department. Certificates of Performance are designed to prepare students for employment, job enhancement and/or job advancement. To qualify for the Certificate of Performance, students must satisfy the following requirements:

1. Achieve a grade of "C" or better in each of the required courses. A "P" (pass) grade meets this requirement.
2. Complete all required course work in the San Diego Community College District.
3. Course substitutions or course equivalencies from other colleges may not be used to satisfy Certificate of Performance requirements.

For additional information, contact the campus Evaluations Office or subject-area department.

Graduation

Apply for Graduation

Graduation from Miramar is not automatic. Students who expect to receive an Associate Degree or Certificate of Achievement must [Apply for Graduation](#).

Students who expect to receive an Associate Degree and/or a Certificate of Achievement are encouraged to apply for graduation after they have registered for the semester in which they plan to complete the requirements for their degree program.

The deadline dates for applying to graduate, can be found online at, by accessing the [Graduation Deadlines website](#).

Official college transcripts from all colleges attended must be on file before submitting the graduation application for an Associate Degree.

In cases where a student has taken courses at institutions outside of the San Diego Community College District (SDCCD) that are necessary for completing their Certificate of Achievement requirements, only the transcript from the institution where the relevant course(s) was completed is required.

An evaluation is a summary of college work completed and of requirements to be completed for the associate

degree or the certificate of achievement. Only evaluations completed by one of the Evaluators are official.

Petition for Exceptions

Petitions for exceptions to graduation requirements, substitutions, or waiver of requirements are filed with the Counseling Office. All petitions are acted upon by the appropriate college committees/offices.

Catalog Rights

Students who maintain continuous enrollment may choose to graduate under the (City College, Mesa College, and Miramar College) catalog in effect at the time they began their studies in a California Community College, California State University, or University of California campus, or under the catalog in effect at the time of graduation.

Certification of a student's completion of the California General Education Transfer Curriculum (Cal-GETC) or the requirements for an approved intersegmental lower-division general education pattern used for transfer to the University of California or the California State University is not a graduation requirement. Therefore, students do not have catalog rights to a certification

pattern used by a certifying institution or a CSU or UC campus.

Continuous Enrollment

Continuous enrollment is defined as enrollment within a calendar year in either the CSU, UC, or California Community College System. Withdrawals are considered enrollment.

Awarding of Degrees or Certificates

Associate Degrees/Certificates of Achievement will be awarded at the end of the semester in which the requirements are completed.

The graduation ceremony is held once a year. Candidates for Fall, Spring and Summer graduation may participate in the ceremony which is held at the end of the Spring semester.

Associate Degree Initiative

The San Diego Community College District proactively reviews student academic records to determine if program requirements for an associate degree have been met.

Student academic records will be reviewed if the student:

- completed at least 70 degree applicable units,
- submitted all transcripts from other institutions attended, and
- has an education plan on file.

If the degree requirements are met, students will be notified via email and awarded a diploma. Students have until the end of the semester to decline the degree.

All students may participate in the commencement ceremony which occurs annually at the end of the spring semester. Note that students who plan to transfer to a California State University (CSU), may want to consider an Associate Degree for Transfer and should consult a counselor or the Transfer Center for options.

Diplomas

Diplomas are issued only after completion of all graduation requirements has been verified. Diplomas will be issued in the name and to the address of record at the time the diploma is awarded. For information on obtaining your diploma or certificate of achievement, or a duplicate copy, please visit the [Graduation Deadlines website](#).

Graduation with Distinction

Graduation with honors distinction will be based upon all coursework that is associate degree and lower division baccalaureate degree applicable.

Graduation with Honors is granted to students who achieve an overall 3.5 GPA, High Honors is granted to students who achieve an overall 3.75 GPA, and Highest Honors is granted to students who achieve an overall 4.0 GPA for coursework for the degree or certificate.

Students will be notified that this distinction is pending at the time of the graduation ceremony, when the GPA will be calculated based upon degree or certificate applicable coursework completed through the Fall semester of the year of the ceremony. The final distinction will be determined for the degree or certificate upon completion of all coursework completed through the Fall semester for fall graduates or the Spring semester for spring graduates or the summer term for summer graduates.

Additional College Degree

A student having received an associate or baccalaureate degree may qualify for an additional Associate of Arts or Associate of Science degree in a new major or concentration.

An additional degree:

1. Permits upgrading or preparation for upgrading current employment.
2. Prepares for employment in an area different from that provided by previous training
3. Provides general knowledge leading to fulfillment of personal goals.
4. Allows the student to improve priority of transfer applications by earning an Associate Degree for Transfer (ADT).

The following requirements are applicable:

1. A student must earn a minimum of 6 mutually exclusive required semester units in the new major or emphasis. A minimum of twelve (12) semester degree-applicable units must be completed in residence at the college granting the degree.
2. A student must fulfill current catalog degree requirements if continuous enrollment has not been maintained.
3. Counselors will review all previous college work to determine the student's eligibility for a second degree. The student must Apply for Graduation online, by accessing the [mySDCCD portal](#).

ADT Exemption: Students who have previously been awarded an Associate Degree, and wish to receive one

ADT in the same or similar major, will be exempt from the additional unit requirement of 6 new units.

Gainful Employment

Data on Gainful Employment and Licensure Eligibility Requirements are available, by accessing the [CTE report](#).

Transfer Guide

University Transfer

What is Transfer?

Transfer is the process of continuing your education at a baccalaureate-degree granting college or university, usually after completing your major preparation and general education at a community college. If planned correctly, the courses that you pass at community college will count towards requirements for your Bachelor degree just as if they had been taken at the four-year institution. City College students transfer to a wide variety of universities within California and throughout the world.

Transfer Services

Students are advised to plan transfer programs as early as possible and enroll in transferable courses in both general education and in courses that prepare for the specific university major. Questions related to transfer programs should be discussed with counselors or the Transfer/Career Center staff. Students interested in transfer should meet a counselor in the Counseling Department, A-366, or in the Transfer/Career Center, room A-301, to develop a Transfer Educational Plan which will identify the courses needed to transfer. For additional information about Transfer Services, call 619-388-3722.

The City College Transfer Center is designed to help you during each step of your transfer experience to ensure a smooth and positive transition. A variety of resources are available, including:

- Academic/Career Counseling
- Guidance in researching and selecting a transfer institution
- Individual appointments with representatives from UC, CSU, and independent colleges and universities
- Transfer Workshops
- Transfer Admissions Agreements and Guarantees with selected universities
- A library of catalogs & college publications
- Information on important dates and deadlines
- Computer software for college research
- Transfer Fairs
- Field Trips

For additional information regarding specific services, contact the San Diego City College Transfer/Career Center in Room A-301 at 619-388-3722 or the Counseling Department in Room A-366 at 619-388-3540, or visit the [Transfer Center website](#).

Steps to Transfer

STEP 1: Career Exploration

Career Objective Developing a career objective is a key part of your transfer journey, as it helps determine the type of degree you'll pursue and guides your major

selection. See a counselor for guidance and support in your career exploration process

STEP 2: Choosing Your University Major

A major is a field of study that you emphasize in your college education. It is what you "specialize" in with your degree. It's important to remember that your major is what you will study at the university you transfer to. At City College, you can prepare to transfer into virtually any major at any university-there are literally thousands to choose from. To narrow down the options, students often begin to select their major by one of the following techniques:

- If you have an idea of the career field you want to enter, you can find majors that are related to, or prepare for, that career field. Majors and career fields are not always "perfectly matched." However, knowing your intended career field can help narrow your options. You can visit the Counseling Department or Transfer/Career Center for assistance in researching career fields.

- If you know what university you want to attend, you can go to the official website of the university and review majors under the "academics" or "undergraduate majors" section, or find their college catalog online, and select your major from the list of majors.
- If you think you might be interested in a particular major but are not sure, consider taking a general education class in the major and see how you like it. Students often select their major based simply on the courses that are the most interesting to them.

STEP 3: Choosing Your Transfer University

Each university may have different transfer requirements, so choosing a transfer university (first, second, and third choice) is important to ensure you complete the right courses. Universities in the United States are organized into different systems and categories. Choosing a transfer university is also important because:

- The majors offered at each university are different.
- Each university has unique features, including factors like its student body, its location, and its extracurricular activities.
- You are more likely to do well academically in a university environment that you enjoy.

The most common universities that City College students transfer to include:

University of California (UC)

Combines undergraduate education (leading to a Bachelor's degree) with emphasis on graduate programs (Master and Doctor degrees) and research. Relatively inexpensive for California residents. UC San Diego (UCSD) is one of the ten universities in the University of California system. See the [UC website](#) for details.

UC Minimum Admission Requirements

Transfer students will be eligible for admission if they meet the following requirements:

1. Complete a minimum of 60 UC-transferable semester units or 90 transferable quarter units.
2. Obtain a minimum 2.4 GPA (2.8 for California non-residents). Some campuses and majors may require a higher GPA for admission selection.
3. Complete two transferable college courses in English composition (3 semester or 4–5 quarter units each) and one transferable college course in mathematical concepts and quantitative reasoning (3 semester or 4–5 quarter units).
4. Complete four transferable college courses chosen from at least two of the following subject areas: arts and humanities, social and behavioral sciences, physical and biological sciences.
5. Complete four transferable college courses chosen from at least two of the following subject areas: arts and humanities, social and behavioral sciences, physical and biological sciences.

The UC gives high priority to students who complete major preparation coursework early in their academic career.

Students who complete the California General Education Transfer Curriculum (Cal-GETC) pattern prior to transferring to the UC system will meet the transfer eligibility coursework requirement listed above (for details on Cal-GETC, see appropriate section of this guide for details). Students are strongly recommended to meet with a counselor to discuss additional requirements for competitive admissions based on major and campus choice.

UC Transfer and Physical Education Activity Courses

The University of California grants a maximum of four semester units of credit for appropriate Physical Education activity courses. Courses that are subject to this limit are listed as such on the college's UC Transfer Course Agreement, available on web [ASSIST](#), under the UC Transferable Courses link. Physical Education Theory courses or courses that do not fit either the Theory or Activity category are not included in the four semester credit limit.

UC Transfer and Variable Topics Courses

These courses are also called "Independent Studies", "Special Studies", "Special Topics", "Internships", "Field Work", etc. Credit for variable topics courses is given only after a review of the scope and content of the course by the enrolling UC campus. This usually occurs after transfer and may require recommendations from faculty. UC does not grant credit for variable topics courses in Journalism, Photography, Health, Business Administration, Architecture, Administration of Justice (Criminology) or Library Departments because of credit restrictions in these areas.

California State University (CSU)

Emphasizes undergraduate education (leading to a Bachelor's degree) but also offers Master degrees. Professors spend more time in the classroom and less time on research than those in the University of California system. Emphasizes preparation for specific careers. Relatively inexpensive for California residents. San Diego State University (SDSU) and CSU San Marcos

are two local universities in the 23-campus California State University system. Access the [CSU website](#) for details.

CSU Minimum Admission Requirements

Transfer students will be eligible for admission if they meet the following requirements:

1. Complete a minimum of 60 CSU-transferable semester units or 90 transferable quarter units.
2. Obtain a minimum 2.0 GPA (2.4 for California non-residents). Impacted majors may have higher GPA Requirements.
3. Complete "The Golden Four" (Oral Communications, Written Communication, Critical Thinking, and Mathematics/Quantitative Reasoning) with a grade of "C" or better. Pass/ No-Pass grades are not recommended in these areas.

Students are urged to complete a General Education pattern such as Cal-GETC (see appropriate section of this guide for details).

Students are strongly recommended to meet with a counselor to discuss additional requirements for competitive admissions based on major and campus choice.

Associate Degrees for transfer are another option to transfer to the CSU system. See your counselor or Transfer Center for details.

Private Colleges and Universities

Colleges and universities that are not funded by public taxes, sometimes also called "independent." Each university is unique with its own programs, majors, and degrees. Some offer academic programs grounded in a specific religion or philosophy. Others offer programs in only one discipline, such as the arts or technical degrees. Others specialize in providing continuing education to working adults. Usually smaller and more focused in academic emphasis than public universities. Useful websites: [AICCU](#); [San Diego Education Consortium](#)

Historically Black Colleges and Universities (HBCU's)

Historically Black Colleges and Universities (HBCUs) were founded during the 19th century in the Southern and Eastern United States to offer higher education

opportunities for people of African decent, who were excluded from existing public and private institutions despite legislative changes. Today, there are more than 100 HBCUs recognized by the U.S. Department of Education. These schools provide a range of degrees, from bachelor's to doctoral levels, often at affordable tuition rates. HBCUs are known for their vibrant culture, smaller class sizes and the supportive, and student-centered teaching practices by dedicated faculty. Currently there are 39 HBCU partner schools that offer admission guarantees to California Community College students. To learn more about our partner schools visit [HBCU's website](#) for more info.

Hispanic-Serving Institutions

The Hispanic Association of Colleges and Universities (HACU) is a national educational association that represents colleges and universities committed to Hispanic Higher education success in the United States (including Puerto Rico), Latin America, and Spain. HACU has 193 member Hispanic-Serving Institutions (HSIs) located in 11 U.S. states and Puerto Rico. To be considered a Hispanic-Serving Institution, the Hispanic enrollment at a college or university must be at least 25 percent of the total student enrollment. California is home to 54 Hispanic-Serving Institutions. Access the [HACU website](#) for details.

Tribal Colleges and Universities

There are 35 federally recognized Tribal Colleges and Universities in the United States. Located mainly in the Midwest and Southwest, Tribal Colleges and Universities service approximately 30,000 full- and part-time students. They offer two-year associate degrees in over 200 disciplines with some providing a bachelor's and master's degree. They also offer 200 vocational certificate programs. For details, access [online](#).

Out-of-State Colleges and Universities

Colleges and universities that are not in California. May be public or private. Useful websites:

- [Western Interstate Commission for Higher Education](#)
- [Regional Admission Counselors of California](#)
- [College Source Online](#)

STEP 4: Application

Major Preparation

Some majors require specific lower-division courses to be admitted to a major upon transfer. For public

universities in California, visit [ASSIST](#) for this articulation information. Articulation is the process whereby a course (or set of courses) offered at one institution is accepted as equivalent to or in lieu of a comparable course (or set

of courses) at another institution. For current City College articulation agreements with private/independent universities, visit the [Transfer Center website](#).

General Education Requirements:

General Education requirements are courses required of everyone regardless of major. Each university has different general education patterns. City students can choose from the following:

- a. Complete specific general education requirements for an individual university, or
- b. Complete the approved California General Education Transfer Curriculum (Cal-GETC) pattern of courses acceptable at all campuses of the CSU, most campuses of the UC, and some private institutions.

It is strongly advised that you work closely with a counselor to discuss how to approach your general education courses.

General Education Certification

General Education Certification is a legal agreement between the UC or CSU systems and the California Community Colleges that permits a student to transfer from a community college to a UC or CSU campus without the need to complete additional lower division general education courses to satisfy university GE requirements after transfer. City College will provide a Cal-GETC certification to one university campus when specifically requested by the student. This certification may include courses taken from other colleges, or credit earned through other means, such as Advanced Placement (AP) test credit. Students do not have "catalog rights" to a certification pattern. Additional information on certification rules that are specific to the Cal-GETC pattern are discussed later in those sections.

Students who transfer without certification may have to meet additional GE requirements at the university. This often means taking additional courses after transfer.

Completion of the Cal-GETC pattern also fulfills the requirements for a Certificate of Achievement in General Education (see "General Education"). Students who complete one of these patterns and additional transfer coursework may also qualify to complete the City College associate degree in Liberal Arts & Sciences. The following Areas of Emphasis or Specialization are available:

- Language Arts and Humanities
- Scientific Studies Biological Science
- Scientific Studies Mathematics and PreEngineering
- Scientific Studies Physical and Earth Sciences Specialization

- Social and Behavioral Sciences
- Visual and Performing Arts

Electives

Electives are additional courses taken to meet the number of required units or to meet additional lower-division graduation requirements. Make sure the courses you select are transferable courses by referring to the course descriptions in this catalog.

Other Transfer General Education Options

Some transfer students are best served by following a general education pattern other than the Cal-GETC pattern. These typically include students who fall into one of the following three categories:

1. Students entering high unit majors such as an engineering or science discipline. Major preparation for the engineering and science fields typically consists of a high number of units. Most universities prefer (and some require) that these preparation for major courses be completed prior to transfer. Therefore, it may be more beneficial for students entering these majors to complete relatively fewer GE courses and more major preparation courses at the community college, while still meeting the minimum admission requirements of the university. Students should review the catalog or other published advising materials of the university and major to which they intend to transfer and then consult a City counselor for assistance in selecting appropriate courses.
2. Students transferring to a private/independent or out-of-state university. Some private/ independent and out-of-state universities accept Cal-GETC, but most do not. Instead, each university has its own unique GE pattern. City College has established articulation agreements with many of these institutions. These agreements specify the courses students can complete at City to fulfill the university's GE requirements. They are available [online](#). For more information on transferring to a private/ independent or out-of-state university, visit the Transfer Center (A-301) or see a counselor.
3. Students who wish to complete the general education requirements of one specific university. Some students decide to complete the GE requirements for one specific university, rather than the more universally applicable Cal-GETC pattern, for several reasons:
 - Some universities and/or majors do not accept Cal-GETC and instead suggest following the university's own GE pattern.

- Some students know that they will attend only one university (such as those with a guarantee of transfer admission) and so plan to complete the specific GE pattern for that institution only.
- Some university-specific GE patterns require fewer total units than Cal-GETC.

Each university's unique GE pattern can be found in the university catalog. In addition, some UC and CSU campuses have posted their unique general education patterns to the [ASSIST website](#).

Guarantee Admission Programs

City College offers a number of Guaranteed Admission Programs. Come to the Transfer Center for program requirements. Plan early as some agreements must be signed at least a year in advance of the transfer semester/quarter. Interested students are strongly urged to meet with a Counselor for program details as requirements and eligibility often change.

Please refer to the Academic Requirements for Associate in Arts for Transfer (AA-T) or Associate in Science for Transfer (AS-T) for California State University (CSU) offered at San Diego City College.

STEP 5: Applying to a University

About applying for admission

Universities require you to apply and be admitted before you start attending school there. All students who apply must meet the minimum requirements (usually certain coursework requirements and a minimum transferable GPA). Some schools accept all transfer students who meet the minimum requirements, while others go through a selection process to determine which students will be offered admission.

Application dates and deadlines

Different systems have different dates and deadlines to apply. If you plan to attend a private/independent or out-of-state university, you should check with that school to find their application deadline and procedures. The following dates and deadlines apply to California public universities only:

California State University

Term of Transfer	Initial Filing Period
Summer	February 1 – 28/29 of current year
Fall	October 1–November 30 of preceding year
Winter	June 1 – 30 of preceding year
Spring	August 1 – 31 of preceding year

University of California

Term of Transfer	Initial Filing Period
Fall Semester or Quarter	October 1 – November 30 of preceding year
Winter Quarter	July 1 – 31 of preceding year
Spring Quarter	October 1 – 31 of preceding year

All campuses are open for any given Fall term. For Winter/Spring terms, students should verify that the specific campus accepts transfers for that specific term. Check for [CSU](#) campuses and visit the [website](#) for UC campuses.

Each campus accepts applications until the end of the filing period or until capacities are reached. If applying after the initial filing period check the campus websites to verify if the campus is still open.

How to apply

The UC and CSU systems strongly encourage all students to apply using the online application process. Not only does it make it easier to read and evaluate your application, but the websites also “check your work” to make sure you are not missing any required information before you submit your final application.

The UC application is available [online](#)

The CSU application is available [online](#)

STEP 6: Final Steps to Transfer

Many universities require you to submit documents, take assessment exams, attend orientations, or meet other requirements before you enroll. It's also a good idea to apply for your degree and General Education certification from City College prior to transfer. You should do as much as you can now to make the transition to your university as smooth as possible.

Apply to Graduate from City

Graduation from City College is not automatic. You must apply to graduate through the [mySDCCD portal](#) to receive your degree or certificate. We recommend you apply to graduate even if you are only completing transfer coursework. Most transfer students are eligible to receive a General Education Certificate and/or an Associate degree in a transfer-related subject area. You should apply to graduate during your second to last semester at City College.

File for General Education (GE) Certification

GE certification is a legal agreement between City College and a California public university (UC or CSU campus) that all of your lower division GE requirements have been completed. Certification can be awarded for completion or part of completion of the IGETC or CSUGE-Breadth patterns. Some California private/independent situations also accept IGETC or CSUGE-Breadth certification. IGETC or CSUGE-Breadth certification also fulfills the requirements for a General Education Certificate. You should file for GE certification when you are enrolled in your final GE courses and know which university you will be attending. Apply at the Evaluations Office in A-301.

Attend Graduation

You don't have to attend City College graduation to transfer or to receive a degree, but it's a great way to celebrate and be publicly recognized for your achievement. You earned it! Information about the graduation ceremony is available on the [City College website](#).

Find Out How to Get There

Are you using public transportation to commute to your new university? It's a good idea to figure out your best route to the university now, before you start attending.

Submit Intent to Register and Transcripts

After offering you admission, most universities require you to send a statement of intent to register (SIR), official transcripts, a deposit, and sometimes additional materials. Review your university admission paperwork for details. Information on ordering transcripts from the San Diego Community College District is available on the [website](#).

Attend New Student Orientation

Most universities offer a new student orientation day, where you learn about university services and requirements, get academic advising, tour the campus, etc. Review your university admission paperwork for details.

Complete Assessment Tests

Some universities require transfer students to complete assessment tests either prior to enrollment or during their first year of attendance. Review your university admission paperwork for details.

Find Housing

Are you going to live on campus? If so, you will need to apply for campus housing. See your university admission paperwork or the university website for more information. If you are living off campus you may need to start searching for housing in the local community. Most universities have housing assistance offices to help you.

Send Your Final Transcripts

You are usually required to send your university a final official transcript after the end of your last regular semester prior to transfer. Information on ordering transcripts from the San Diego Community College District is available on the [website](#).

Meet Immunization Requirements

Most universities require you to provide documentation of immunizations against certain communicable diseases, like measles or rubella. Review your university admission paperwork for more information.

CSU U.S. History, Constitution, and American Ideals Certification

The California State University, before awarding a degree, requires students to complete courses or examinations that address:

1. The historical development of American institutions and ideals (Area US-1), and
 2. The Constitution of the United States and the operation of representative democratic
-

- government under that Constitution (Area US-2), and
3. The process of California state and local government (Area US-3).

completed at a CSU campus after transfer. Courses approved in two US areas may be used to satisfy both areas.

This requirement may be fulfilled at a California Community College prior to transfer by completing a combination of courses that satisfies all three areas of the requirement. The requirement may also be

Although this requirement is not part of the General Education requirements for CSU, all students must complete course work in U.S. History, Constitution and Government before graduation from a CSU campus. The courses may also be used to partially fulfill Area D of the CSU General Education Breadth Requirements.

**A check mark [✓] indicates courses has been approved to meet the area.
Note: Not required for Certification.**

Course	Area US-1: Development of American Institutions	Area US-2: US Constitution	Area US-3: California State & Local Governments
BLAS 140A African American History to Reconstruction (C,M,MMR)	✓	✓	
BLAS 140B African American History since Reconstruction to the Present (C,M,MMR)	✓		✓
CHIC 141A United States History from a Chicano Perspective (C,M,MMR)	✓	✓	
CHIC 141B United States History from a Chicano Perspective (C,M,MMR)	✓		✓
HIST 109 History of the United States I (C,M,MMR)	✓	✓	✓
HIST 110 History of the United States II (C,M,MMR)	✓		✓
HIST 115A History of the Americas I (C,M,MMR)	✓	✓	
HIST 115B History of the Americas II (C,M,MMR)	✓		✓
HIST 123 U.S. History from the Asian Pacific American Perspective (C,M, MMR)	✓		✓
HIST 141 Women in United States History I (M,MMR)	✓	✓	
HIST 142 Women in United States History II (M,MMR)	✓		✓

Course	Area US-1: Development of American Institutions	Area US-2: US Constitution	Area US-3: California State & Local Governments
HIST 150 Native Americans in United States History I (M)	✓	✓	
HIST 151 Native Americans in United States History II (M)	✓		✓
HIST 175 California History (M)			✓
POLI 121 American Political Development (C,M,MMR)	✓	✓	
POLS C1000 American Government and Politics (C,M,MMR)		✓	✓

NOTES:

- Completion of the Advanced Placement examination in U.S. History with a score of 3 or higher will satisfy the requirement for the CSU American Institutions Area US-1 only.
- Completion of the Advanced Placement examination in U.S. Government & Politics with a score of 3 or higher will satisfy the requirement for Area US-2.
- Students who have completed the American Institutions requirement except for the California government portion must complete one course approved in Area US-3.

Transfer General Education Options

General Education

General Education (GE) is a set of courses from a variety of different subject areas that every student must complete in order to earn a bachelor's degree, regardless of major. The goal is to provide a well-rounded education that cultivates the knowledge, skills, and attitudes essential to becoming an "educated person."

The completion of GE prior to transfer is not required for admission to most universities. However, it is usually in the student's best interest to complete an appropriate transfer GE pattern at the community college. This is because GE requirements that are not fulfilled prior to transfer must be completed later at the university, which often extends the time and expense of university education.

Students usually follow one of three transfer GE patterns. These are:

The Cal-GETC Pattern

Cal-GETC is accepted by all CSU campuses and most UC campuses and majors. It is also accepted by some private/independent or out-of-state universities.

It is strongly recommended that students consult with a counselor to determine which general education pattern is most appropriate for their individual goals.

The IGETC Pattern

Students who have established and maintained catalog rights prior to Fall 2025 may use the IGETC pattern beginning with the version that was current when they began at a California community college and as it applied to their designated catalog year.

IGETC is accepted by all CSU campuses and most UC campuses and majors. It is also accepted by some private/independent or out-of-state universities.

Students should refer to their designated catalog year. It is strongly recommended that students consult with a counselor to determine which general education pattern

is most appropriate for their individual educational goals.

The CSUGE-Breadth Pattern

Students who have established and maintained catalog rights prior to Fall 2025 may use the CSUGE-Breadth pattern beginning with the version that was current when they began at a California community college and as it applied to their designated catalog year.

CSU GE Breadth is accepted by all CSU campuses and some private/independent or out-of-state universities. It is not accepted by the UC system.

Students should refer to their designated catalog year. It is strongly recommended that students consult with a counselor to determine which general education pattern is most appropriate for their individual educational goals.

Other Transfer General Education Options

It is usually not recommended that students who plan to transfer to the UC or CSU systems follow this option. However, students entering high-unit majors such as science or engineering, those transferring to a private/independent or out-of-state institution, or those who plan to apply to only one university may be best served by an alternative general education pattern.

It is strongly recommended that students consult with a counselor to determine which general education pattern

is most appropriate for their individual educational goals.

General Education Certification

General Education Certification is a legal agreement between the UC or CSU systems and the California Community Colleges that permits a student to transfer from a community college to a UC or CSU campus without the need to complete additional lower division general education courses to satisfy university GE requirements after transfer.

SDCCD will provide Cal-GETC certification to a four-year university when specifically requested by the student. This certification may include courses taken from other colleges or credit earned through other means, such as Advanced Placement (AP) test credit. All official transcripts must be on file.

CSUGE-Breadth and IGETC certifications are available to students who have established and maintained catalog rights prior to Fall 2025.; Students may use the pattern beginning with the version that was current when they began at a California community college and as it applies to their designated catalog year.

Students who transfer without certification may have to meet additional GE requirements at the university. This often means taking additional courses after transfer.

California General Education Transfer Curriculum (Cal-GETC) Option 6

About the Cal-GETC Pattern

The California General Education Transfer Curriculum (Cal-GETC) is a general education pattern that will fulfill all lower-division general education requirements at all California State University (CSU) campuses and most University of California (UC) campuses/majors. It is also accepted by some private/independent or out of state universities. IGETC is usually recommended for students who intend to transfer to a UC campus, or who are not yet sure of their intended transfer university. Completion of the Cal-GETC pattern is not an admission requirement for transfer to most UC or CSU campuses, nor is it the only way to fulfill the lower division GE requirements of a UC or CSU campus prior to transfer.

Additional Cal-GETC Information and Restrictions

- Each course must have been Cal-GETC approved at the time it was completed. See [ASSIST](#) for a list of certified courses and approval dates.
- Courses may be approved for more than one Cal-GETC area. However, each course may be used to certify only one of the areas it is approved for.
- Students should apply for Cal-GETC certification at the last community college attended prior to transfer. Cal-GETC certification requests will be processed for students who have completed at least one course at a SDCCD college. Certification forms are available at the Counseling or Evaluations Office.

- AP credit and coursework completed at accredited U.S. colleges and universities may be used to fulfill some Cal-GETC requirements. All such credit must be evaluated through the Evaluations office. Courses completed at a foreign college or university cannot be used to satisfy Cal-GETC general education requirements.
- All courses must be passed with a "C" or higher. Pass (P) grades are also acceptable. "C-" is not acceptable.
- Some UC campuses do not allow use of Cal-GETC for students who were previously enrolled at a UC campus.
- Some community college courses have limitations on the amount of credit awarded by the receiving university. See a counselor, the course description in the college catalog, or [ASSIST](#) for more information.

Cal-GETC is not recommended for the following transfer destinations:

- UC San Diego Revelle Colleges
- UC Berkeley Colleges of Business, Chemistry, Engineering, Natural Resources, Optometry
- UC Santa Barbara Colleges of Engineering
- UC Los Angeles Schools of Engineering and Applied Science
- UC Merced School of Engineering and Natural Sciences

The Cal-GETC Pattern

() Colleges in parenthesis indicate where the course is approved for Cal-GETC requirements.

C-City College

M-Mesa College

MMR-Miramar College

* Courses with an asterisk are listed in more than one area but shall not be certified in more than one area.

+ Courses with a plus indicate transfer credit may be limited by either UC or CSU, or both. Please consult with a counselor for additional information.

Area 1: English Communication

Three Courses: one English Composition, one Critical Thinking and Composition, and one Oral Communication (Nine semester units)

Area 1A: English Composition

One course (Three semester units)

ENGL C1000	Academic Reading and Writing	(C, M, MMR)
ENGL 105	Composition and Literature	(C, M, MMR)

Area 1B: Critical Thinking and Compositiong

One course (Three semester units)

ENGL C1001	Critical Thinking and Writing	(C, M, MMR)
PHIL 205	Critical Thinking and Writing in Philosophy	(C, M, MMR)
HIST 205	Methodology and Practice in History	(M)

Area 1C: Oral Communication

One course (Three semester units)

Area 2: Mathematical Concepts and Quantitative Reasoning

One course (Three semester units)

+	BIOL 200	Biological Statistics	(M, MMR)
+	BUSE 115	Statistics for Business	(C, M, MMR)
	CISC 246	Discrete Mathematics for Computer Science	(M, MMR)
+	MATH 115	Gateway to Experimental Statistics	(C)
+	MATH 116	College and Matrix Algebra	(C, M, MMR)
+	MATH 121	Basic Techniques of Applied Calculus I	(C, M, MMR)
+	MATH 122	Basic Techniques of Applied Calculus II	(C, M, MMR)
+	MATH 141	Precalculus	(C, M, MMR)

+	MATH 150	Calculus with Analytic Geometry I	(C, M, MMR)
+	MATH 151	Calculus with Analytic Geometry II	(C, M, MMR)
	MATH 245	Discrete Mathematics	(C, M, MMR)
	MATH 252	Calculus with Analytic Geometry III	(C, M, MMR)
	MATH 254	Introduction to Linear Algebra	(C, M, MMR)
	MATH 255	Differential Equations	(C, M, MMR)
+	POLI 201	Elementary Statistics for Political Science	(C, M)
+	PSYC 258	Behavioral Science Statistics	(C, M, MMR)
+	STAT C1000	Introduction to Statistics	(C, M, MMR)

Area 3: Arts and Humanities

Two courses: one Arts and one Humanities (Six semester units)

Area 3A: Arts

One course (Three semester units)

	ARTF 100	Art Orientation	(C, M, MMR)
	ARTF 106	Art of the United States: Colonial to Modern Period	(M)
	ARTF 107	Contemporary Art	(M, MMR)
*	ARTF 108	Women in Art	(M)
	ARTF 109	Modern Art	(C, M, MMR)
	ARTF 110	Art History: Prehistoric to Gothic	(C, M, MMR)
	ARTF 111	Art History: Renaissance to Modern	(C, M, MMR)
+	ARTF 113	Arts of Africa, Oceania, and the Americas	(M, MMR)
+	ARTF 115	African Art	(C, M)
+	ARTF 120	Native American Art	(M)
	ARTF 125	Art History: Arts of the Asian Continent	(C, M, MMR)
	ARTF 130	Pre-Columbian Art	(M)
*	ARTF 188	Women and Gender in Photography	(M)
	ARTF 191	Cultural Influences on Photography	(M)
	ARTF 194	Critical Photography	(M)
	ARTF 212	Sustainable Art and Design	(C)

	BLAS 110	African American Art	(C, M)
+	BLAS 111	Cultural Influences on African Art	(M)
	BLAS 120	Black Music	(C, M)
	CHIC 230	Chicano Art	(C, M)
	CHIC 250	Introduction to Chicana/o Dramatic Art	(C, M)
	DFLM 101	Introduction to Film	(MMR)
	DFLM 102	The American Cinema	(MMR)
	DRAM 105	Introduction to Dramatic Arts	(C, M)
	DRAM 107	Study of Filmed Plays	(C, M)
	DRAM 109	Theatre and Social Issues	(C, M)
	DRAM 111	Chicana/o Theatre	(C)
	DRAM 136	History of Canonized Theatre - Ancient Greece to the Restoration	(C)
	DRAM 137	History of Canonized Western Theatre - Restoration to the Present	(C)
	DRAM 150	Cinema as Art and Communication I	(M)
	DRAM 151	Cinema as Art and Communication II	(M)
	DRAM 205	The American Musical on Stage and Screen	(C, M)
	DSGN 104	Graphic Design History	(C)
	FASH 122	Ethnic Costume	(M)
	FJMP 100	Introduction to Cinema	(C)
	MUSI 100	Introduction to Music	(C, M, MMR)
	MUSI 103	History of Rock Music	(C, M, MMR)
	MUSI 109	World Music	(C, M, MMR)
	MUSI 111	Jazz History	(C, M, MMR)
	MUSI 114	Music of The Beatles	(M)
	MUSI 117	Music in the United States	(M)
	MUSI 118	Asian & Pacific Music	(M)
	MUSI 119	Music in Latin America & North America	(M)
	MUSI 125	Music, the Arts, and Society	(M)

MUSI 126	Rap Music and Hip Hop Culture	(M)
MUSI 131	Music of California	(M)
MUSI 138	Women in Music	(M)
PHOT 150	History of Photography	(C)

Area 3B: Humanities

One course (Three semester units)

AMSL 121	American Sign Language Level II	(C, M, MMR)
* AMSL 150	Introduction to Deaf Culture	(C, M)
AMSL 220	American Sign Language Level III	(C, M)
AMSL 221	American Sign Language Level IV	(C, M)
ARAB 102	Second Course in Arabic	(C)
ARAB 201A	Third Course in Arabic	(C)
ARCH 126	History of Ancient World Architecture	(M)
ARCH 127	History of World Architecture: Renaissance Through Contemporary	(M)
* ARTF 108	Women in Art	(M)
* ARTF 188	Women and Gender in Photography	(M)
ARTF 191	Cultural Influences on Photography	(M)
* BLAS 145A	Introduction to African History	(C, M)
* BLAS 145B	Introduction to African History	(C, M)
BLAS 150	Black Women in Literature, Film and the Media	(C, M, MMR)
BLAS 155	African American Literature	(C, M, MMR)
CHIC 130	Mexican Literature in Translation	(C, M)
CHIC 135	Chicana/o Literature	(C, M, MMR)
CHIC 138	Literature of La Raza in Latin America in Translation	(C, M)
CHIC 190	Chicano Images in Film	(C, M)
* CHIC 210	Chicano Culture	(C, M)
CHIN 102	Second Course in Mandarin Chinese	(M)
CHIN 201	Third Course in Mandarin Chinese	(M)

CHIN 202	Fourth Course in Mandarin Chinese	(M)
ENGL 208	Introduction to Literature	(C, M, MMR)
ENGL 209	Literary Approaches to Film	(C, M, MMR)
ENGL 210	American Literature I	(C, M, MMR)
ENGL 211	American Literature II	(C, M, MMR)
ENGL 215	English Literature I: 800-1799	(C, M, MMR)
ENGL 216	English Literature II: 1800-Present	(C, M, MMR)
ENGL 220	Masterpieces of World Literature I: 1500 BCE-1600 CE	(C, M, MMR)
ENGL 221	Masterpieces of World Literature II: 1600-Present	(C, M, MMR)
ENGL 230	Asian American Literature	(M, MMR)
ENGL 234	Hip Hop Literature: A Poetry Class	(C, M, MMR)
ENGL 237	Women in Literature	(C, M, MMR)
ENGL 240	Shakespeare	(C, M)
FREN 102	Second Course in French	(C, M)
FREN 201	Third Course in French	(C, M)
FREN 202	Fourth Course in French	(C, M)
GERM 102	Second Course in German	(C, M)
GERM 201	Third Course in German	(C, M)
* HIST 100	World History I	(C, M, MMR)
* HIST 101	World History II	(C, M, MMR)
* HIST 105	Introduction to Western Civilization I	(C, M, MMR)
* HIST 106	Introduction to Western Civilization II	(C, M, MMR)
* HIST 120	Introduction to Asian Civilizations	(C, M, MMR)
* HIST 121	Asian Civilizations in Modern Times	(C, M, MMR)
HIST 123	U.S. History from the Asian Pacific American Perspective	(C, M, MMR)
* HIST 131	Latin America Before Independence	(M)
* HIST 132	Latin America Since Independence	(M)
HUMA 101	Introduction to the Humanities I	(C, M, MMR)
HUMA 102	Introduction to the Humanities II	(C, M, MMR)
HUMA 103	Introduction to the New Testament	(C, M)

HUMA 104	Introduction to the Old Testament	(M)
HUMA 106	World Religions	(C, M, MMR)
HUMA 118	Eastern Humanities	(M)
HUMA 119	Western Humanities	(M)
HUMA 201	Mythology	(C, M, MMR)
HUMA 205	Exploring Human Values Through Film	(M)
HUMA 210	Women in Religion and Myth	(M)
ITAL 102	Second Course in Italian	(C,M)
ITAL 201	Third Course in Italian	(C,M)
JAPN 102	Second Course in Japanese	(M)
JAPN 201	Third Course in Japanese	(M)
JAPN 202	Fourth Course in Japanese	(M)
PHIL 102A	Introduction to Philosophy: Reality and Knowledge	(C, M, MMR)
PHIL 102B	Introduction to Philosophy: Values	(C, M, MMR)
PHIL 103	Historical Introduction to Philosophy	(M)
PHIL 104A	History Of Western Philosophy: Ancient to Medieval	(C, M, MMR)
PHIL 104B	History of Western Philosophy: Modern to Contemporary	(C, M)
PHIL 105	Contemporary Philosophy	(C, M)
PHIL 106	Asian Philosophy	(C, M)
PHIL 107	Reflections on Human Nature	(C, M, MMR)
PHIL 108	Perspectives on Human Nature and Society	(C, M)
PHIL 110	Philosophy of Religion	(C, M)
PHIL 111	Philosophy In Literature and Other Fiction	(C, M)
PHIL 112	Philosophy of Science	(M)
PHIL 125	Philosophy of Women	(C, M)
* PHIL 126	Introductin to Philosophy of Contemporary Gender Issues	(C, M)
PHIL 130	Philosophy of Art and Music	(C, M)
PHIL 131	Environmental Ethnics	(C, M, MMR)
RUSS 102	Second Course in Russian	(M)
RUSS 201	Third Course in Russian	(M)

+	SPAN 102	Second Course in Spanish	(C, M, MMR)
+	SPAN 201	Third Course in Spanish	(C, M, MMR)
	SPAN 202	Fourth Course in Spanish	(C, M, MMR)
	SPAN 215	Spanish for Spanish Speakers I	(C, M)
	SPAN 216	Spanish for Spanish Speakers II	(C, M)
	SPAN 221	Hispanic Literature for Spanish Speakers	(M)
	SPAN 222	Hispanic Culture and Civilization for Spanish Speakers	(M)
	TAGA 102	Second Course in Tagalog	(MMR)
	TAGA 201	Third Course in Tagalog	(MMR)
	VIET 102	Second Course in Vietnamese	(M)
	VIET 201	Third Course in Vietnamese	(M)

Area 4: Social and Behavioral Sciences

Two courses (Six semester units)

*	AAPI 124	Introduction to Asian American and Pacific Islander Studies	(C, M, MMR)
*	AAPI 125	Asian American and Pacific Islander Identities and Cultures	(M)
*	AAPI 130	Asian American and Pacific Islander Women	(M)
	ADJU 101	Introduction to Administration of Justice	(C, MMR)
	ADJU 230	Constitutional Law I	(MMR)
	AGRI 100	Principles of Sustainable Agriculture	(C)
*	AMSL 150	Introduction to Deaf Culture	(C, M)
	ANTH 103	Introduction to Cultural Anthropology	(C, M, MMR)
	ANTH 106	World Prehistory	(C)
	ANTH 107	Introduction to Archaeology	(C, M, MMR)
	ANTH 110	Anthropology of Magic, Witchcraft, and Religion	(C, M)
	ANTH 117	Anthropology of Gender and Sexuality	(M)
	ANTH 140	Primatology	(C, M)
	ANTH 210	Introduction to the Indigenous People of California	(C)
	ANTH 215	Cultures of Latin America	(M)
*	ARTF 108	Women in Art	(M)

*	BLAS 100	Introduction to Black Studies	(C, M, MMR)
+	BLAS 104	Black Psychology	(C, M, MMR)
+	BLAS 115	Sociology from a Black Perspective	(C)
	BLAS 116	Contemporary Social Problems from a Black Perspective	(C, M)
	BLAS 125	Dynamics of the Black Community	(M)
	BLAS 130	The Black Family	(C, M)
	BLAS 135	Introduction to Black Politics	(C)
+	BLAS 140A	African American History to Reconstruction	(C, M, MMR)
+	BLAS 140B	African American History since Reconstruction to the Present	(C, M, MMR)
*	BLAS 145A	Introduction to African History	(C, M)
*	BLAS 145B	Introduction to African History	(C, M)
	BLAS 175	Psycho-History of Racism and Sexism	(M)
*	CHIC 110A	Introduction to Chicana and Chicano Studies	(C, M, MMR)
*	CHIC 110B	Introduction to Chicano Studies	(C, M)
	CHIC 140	Chicana/o Sociology	(C, M)
+	CHIC 141A	United States History from a Chicano Perspective	(C, M, MMR)
+	CHIC 141B	United States History from a Chicano Perspective	(C, M, MMR)
	CHIC 150	History of Mexico	(C, M)
	CHIC 155	Introduction to Central American Studies	(M)
	CHIC 170	La Chicana	(C, M, MMR)
	CHIC 201	The Indigenous Tradition of Mexico and Ancient Mesoamerica	(C, M)
*	CHIC 210	Chicano Culture	(C, M)
+	CHIL 101	Human Growth and Development	(C, M, MMR)
+	CHIL 103	Lifespan Growth and Development	(MMR)
*	COMS 135	Interpersonal Communication	(C, M, MMR)
	COMS 201	Communication and Community	(C, MMR)
	CRES 101	Conflict Resolution and Mediation	(C)
	DSST 101	Introduction to Disability Studies	(C)

ECON 120	Principles of Macroeconomics	(C, M, MMR)
ECON 121	Principles of Microeconomics	(C, M, MMR)
ECON 220	Economics of the Environment	(C, M)
ENGL 202	Introduction to Linguistics	(C, M)
* FILI 100	Filipino American Experience	(M, MMR)
FJMP 101	Introduction to Mass Media	(C)
GEND 101	Introduction to Gender Studies	(C, MMR)
GEOG 102	Cultural Geography	(C, M, MMR)
GEOG 104	World Regional Geography	(C, M, MMR)
GEOG 154	Introduction to Urban Geography	(C, M)
* HEAL 103	Introduction to Public Health	(C, M)
HEAL 104	Public Health and Social Justice	(M)
* HIST 100	World History I	(C, M, MMR)
* HIST 101	World History II	(C, M, MMR)
* HIST 105	Introduction to Western Civilization I	(C, M, MMR)
* HIST 106	Introduction to Western Civilization II	(C, M, MMR)
+ HIST 109	History of the United States I	(C, M, MMR)
+ HIST 110	History of the United States II	(C, M, MMR)
HIST 115A	History of the Americas I	(C, M, MMR)
HIST 115B	History of the Americas II	(C, M, MMR)
* HIST 120	Introduction to Asian Civilization	(C, M, MMR)
* HIST 121	Asian Civilizations in Modern Times	(C, M, MMR)
HIST 123	U.S. History from the Asian Pacific American Perspective	(C, M, MMR)
HIST 130	The Modern Middle East	(M)
* HIST 131	Latin America Before Independence	(M)
* HIST 132	Latin America Since Independence	(M)
HIST 135	History of Technology	(M)
+ HIST 141	Women in United States History I	(M, MMR)
+ HIST 142	Women in United States History II	(M, MMR)
+ HIST 150	Native Americans in United States History I	(M)

+	HIST 151	Native Americans in United States History II	(M)
	HIST 154	Ancient Egypt	(M)
	HIST 175	California History	(M)
	JOUR 202	Introduction to Mass Communication	(C, M, MMR)
	LABR 100	American Labor Movement	(C)
	NUTR 153	Cultural Foods	(C, M, MMR)
	PADM 110	Introduction to Law and Society	(C, M)
	PADM 200	Introduction to Public Administration	(C, MMR)
	PEAC 101	Introduction to Peace Studies	(C)
	PHIL 109	Issues in Social Philosophy	(C, M)
*	PHIL 126	Introduction to Philosophy of Contemporary Gender Issues	(C, M)
	POLI 101	Introduction to Political Science	(C, M, MMR)
	POLI 103	Comparative Politics	(C, M, MMR)
	POLI 121	American Political Development	(C, M, MMR)
	POLI 123	Gender and Politics	(M)
	POLI 124	Power and Justice: An Introduction to Political Theory	(C, M)
	POLI 140	Contemporary International Politics	(C, M, MMR)
	POLS C1000	American Government and Politics	(C, M, MMR)
+	PSYC C1000	Introduction to Psychology	(C, M, MMR)
	PSYC 111	Psychological /Social Aspects of Aging, Death and Dying	(C, M)
	PSYC 112	Interpersonal Relations	(M)
+	PSYC 121	Introduction to Child Psychology	(M)
+	PSYC 123	Adolescent Psychology	(C, MMR)
	PSYC 133	Psychology of Women	(M, MMR)
	PSYC 135	Marriage and Family Relations	(C, M, MMR)
+	PSYC 137	Human Sexual Behavior	(C, M, MMR)
	PSYC 155	Introduction to Personality	(C, M, MMR)
	PSYC 166	Introduction to Social Psychology	(C, M, MMR)
	PSYC 211	Learning	(C, M, MMR)
	PSYC 230	Psychology of Lifespan Development	(C, M, MMR)

	PSYC 245	Abnormal Psychology	(C, M, MMR)
	PSYC 283	Introduction to Cognitive Psychology	(C, M, MMR)
+	SOCO 101	Principles of Sociology	(C, M, MMR)
	SOCO 110	Contemporary Social Problems	(C, M, MMR)
	SOCO 125	Sociology of the Family	(C, M)
	SOCO 145	Health and Society	(C, M, MMR)
	SOCO 150	Sociology of Latinos/Latinas	(C, M)
	SOCO 201	Advanced Principles of Sociology	(C, M, MMR)
	SOCO 207	Introduction to Race and Ethnicity	(C, M, MMR)
	SOCO 220	Introduction to Research Methods in Sociology	(C, M, MMR)
	SOCO 223	Globalization and Social Change	(C, M, MMR)
	SPAN 222	Hispanic Culture and Civilization for Spanish Speakers	(M)
	SUST 101	Introduction to Sustainability	(C, M, MMR)
	WMNS 101	Introduction to Gender and Women's Studies	(M)

(5) Physical and Biological Science

Two courses: one Physical Science course and one Biological Science course (Seven semester units). One of the courses must be a laboratory.

- One course in 5A (underlined courses include a laboratory component)
- One course in 5B (underlined courses include a laboratory component)
- One of the courses selected to fulfill Area 5 requirement (5A or 5B) must include a laboratory component or a separate course must be taken from 5C. If a separate laboratory course is taken from 5C, it must match one of the two lecture courses taken from 5A or 5B.

Area 5A: Physical Science

One course (Three semester units)

	<u>AGRI 125</u>	Introduction to Soil Science	(C)
	ASTR 101	Descriptive Astronomy	(C, M, MMR)
	ASTR 102	Exploring the Solar System and Life Beyond The Earth	(C, M, MMR)
	AVIA 115	Aviation Weather	(MMR)
+	CHEM 100	Fundamentals of Chemistry	(C, M, MMR)
	<u>CHEM 103</u>	General, Organic, and Biological Chemistry	(M, MMR)
	CHEM 111	Chemistry in Society	(C, M, MMR)

+	CHEM 130	Introduction to Organic & Biological Chemistry	(C, M, MMR)
+	CHEM 152	Introduction to General Chemistry	(C, M, MMR)
	CHEM 160	Introductory Biochemistry	(M, MMR)
	CHEM 200	General Chemistry	(C, M, MMR)
	CHEM 201	General Chemistry I	(C, M, MMR)
+	CHEM 231	Organic Chemistry I Lecture	(C, M, MMR)
	CHEM 233	Organic Chemistry II Lecture	(C, M, MMR)
	<u>CHEM 251</u>	Quantitative Analytical Chemistry	(C, M, MMR)
	GEOG 101	Physical Geography	(C, M, MMR)
	GEOL 100	Physical Geology	(C, M, MMR)
	GEOL 104	Earth Science	(C, M, MMR)
	<u>GEOL 111</u>	The Earth Through Time	(C, M, MMR)
	<u>GEOL 130</u>	Field Geology of San Diego County	(C, M, MMR)
	OCEA 101	The Oceans	(M, MMR)
+	PHYN 100	Survey of Physical Science	(C, M, MMR)
	PHYN 105	Physical Science for Elementary Education	(M)
	PHYN 114	Weather and Climate	(C, M, MMR)
+	<u>PHYS 100</u>	Introductory Physics	(C, M)
+	<u>PHYS 125</u>	General Physics	(C, M, MMR)
+	<u>PHYS 126</u>	General Physics II	(C, M, MMR)
+	PHYS 180A	General Physics I	(C, M, MMR)
+	PHYS 180B	General Physics II	(C, M, MMR)
+	<u>PHYS 195</u>	Mechanics	(C, M, MMR)
+	<u>PHYS 196</u>	Electricity and Magnetism	(C, M, MMR)
+	<u>PHYS 197</u>	Waves, Optics and Modern Physics	(C, M, MMR)

Area 5B: Biological Science

One course (Three semester units)

	<u>AGRI 107</u>	Introduction to Agricultural Plant Science	(C)
	ANTH 102	Introduction to Biological Anthropology	(C, M, MMR)

+	<u>BIOL 100</u>	Natural History – Environmental	(M, MMR)
	<u>BIOL 101</u>	Issues in Environmental Science & Sustainability	(C, MMR)
+	<u>BIOL 107</u>	General Biology- Lecture and Laboratory	(C, M, MMR)
	BIOL 110	Introduction to Oceanography	(M)
	<u>BIOL 115</u>	Marine Biology	(M, MMR)
+	BIOL 120	The Environment of Man	(M)
	BIOL 130	Introduction to Biotechnology	(C, M, MMR)
	<u>BIOL 131</u>	Introduction to Biotechnology	(MMR)
+	BIOL 180	Plants and People	(C, M, MMR)
	<u>BIOL 205</u>	General Microbiology	(C, M, MMR)
	<u>BIOL 210A</u>	Introduction to the Biological Sciences I	(C, M, MMR)
	<u>BIOL 210B</u>	Introduction to the Biological Sciences II	(C, M, MMR)
+	<u>BIOL 215</u>	Introduction to Zoology	(M)
	<u>BIOL 230</u>	Human Anatomy	(C, M, MMR)
	<u>BIOL 235</u>	Human Physiology	(C, M, MMR)
+	<u>BIOL 250</u>	Introduction to Botany	(M)
	PSYC 260	Introduction to Physiological Psychology	(C, M, MMR)

Area 5C: Laboratory

One course (Three semester units)

	ANTH 104	Laboratory in Biological Anthropology	(C, M, MMR)
+	ASTR 109	Practice in Observing - Laboratory	(C, M, MMR)
+	ASTR 111	Astronomy Laboratory	(C, M, MMR)
+	CHEM 100L	Fundamentals of Chemistry - Laboratory	(C, M, MMR)
+	CHEM 111L	Chemistry and Society Laboratory	(C, M)
+	CHEM 130L	Introduction to Organic & Biological Chemistry	(C, M, MMR)
+	CHEM 152L	Introduction to General Chemistry	(C, M, MMR)
	CHEM 200L	General Chemistry I	(C, M, MMR)
	CHEM 201L	General Chemistry II	(C, M, MMR)
+	CHEM 231L	Organic Chemistry I Laboratory	(C, M, MMR)

	CHEM 233L	Organic Chemistry II Laboratory	(C, M, MMR)
	GEOG 101L	Physical Geography	(C, M, MMR)
	GEOL 101	Physical Geology Laboratory	(C, M, MMR)
	GEOL 120	Earth Science Laboratory	(C, M)
+	PHYN 101	Survey of Physical Science Laboratory	(C, M)
+	PHYS 181A	General Physics Lab I	(C, M, MMR)
+	PHYS 181B	General Physics Lab II	(C, M, MMR)

Area 6: Ethnic Studies

(minimum of 3 semester / 4 quarter units)

	AAPI 124	Introduction to Asian American and Pacific Islander Studies	(C, M, MMR)
	AAPI 125	Asian American and Pacific Islander Identities and Cultures	(M)
	AAPI 130	Asian American and Pacific Islander Women	(M)
	BLAS 100	Introduction to Black Studies	(C, M, MMR)
	BLAS 140A	African American History to Reconstruction	(C, M, MMR)
	BLAS 140B	African American History since Reconstruction to the Present	(C, M, MMR)
*	CHIC 110A	Introduction to Chicana and Chicano Studies	(C, M, MMR)
*	CHIC 110B	Introduction to Chicana and Chicano Studies	(C, M)
	FILI 100	Filipino American Experience	(M, MMR)

Other Transfer General Education Options

Some transfer students are best served by following a general education pattern other than the IGETC or CSUGE-B patterns. These typically include students who fall into one of the following three categories:

1. Students entering high unit majors such as an engineering or science discipline. Major preparation for the engineering and science fields typically consists of a high number of units. Most universities prefer (and some require) that these preparation for major courses be completed prior to transfer. Therefore, it may be more beneficial for students entering these majors to complete relatively fewer GE courses and more major preparation courses at the community college, while still meeting the
2. minimum admission requirements of the university. Students should review the catalog or other published advising materials of the university and major to which they intend to transfer and then consult a City counselor for assistance in selecting appropriate courses.
2. Students transferring to a private/independent or out-of-state university. Some private/ independent and out-of-state universities accept IGETC or CSUGE-B, but most do not. Instead, each university has its own unique GE pattern. City College has established articulation agreements with many of these institutions. These agreements specify the courses students can complete at City to fulfill the

university's GE requirements. They are available on the [website](#). For more information on transferring to a private/ independent or out-of-state university, visit the Transfer Center (A-301) or see a counselor.

3. Students who wish to complete the general education requirements of one specific university. Some students decide to complete the GE requirements for one specific university, rather than the more universally applicable IGETC or CSUGE-B patterns, for several reasons:

- Some universities and/or majors do not accept IGETC and instead suggest following the university's own GE pattern.

- Some students know that they will attend only one university (such as those with a guarantee of transfer admission) and so plan to complete the specific GE pattern for that institution only.
- Some university-specific GE patterns require fewer total units than IGETC or CSUGE-B.

Each university's unique GE pattern can be found in the university catalog. In addition, some UC and CSU campuses have posted their unique general education patterns to the [ASSIST](#).

Student Services

Athletics

Location	P3-200
Telephone	619-388-3486

San Diego City College is a member of the Pacific Coast Athletic Conference for the following sports: men's and women's soccer, men's and women's cross country, men's and women's basketball, softball, men's and women's tennis, baseball, women's volleyball, women's beach volleyball, and women's badminton.

The Pacific Coast Athletic Conference includes the following colleges: Cuyamaca, Grossmont, Imperial Valley, MiraCosta, Palomar, San Diego Miramar, San Diego Mesa, and Southwestern.

Students must meet academic requirements established by the California Community College Athletic Association and pass a physical examination before they are determined to be eligible to participate in Intercollegiate Athletics. Academic eligibility includes enrollment as a full-time student during the season of the sport, an educational plan on file in the first semester of competition and a minimum 2.0 grade point average by their sophomore season of play. For more information, contact the Athletic Office.

Exercise Science Classes/Intercollegiate Sports Disclaimer

Participation in all sports and Exercise Science activities involves certain inherent risks.

Risks may include, but are not limited to, neck and spinal injuries that may result in paralysis or brain injury, injury to bones, joints, ligaments, muscles, tendons and other aspects of the muscular skeleton system; and serious injury, or impairment, to other aspects of the body and general health, including death. The San Diego Community College District, its officers, agents and employees are not responsible for the inherent risks associated with participation in Exercise Science classes/intercollegiate sports.

Students are strongly advised to consult a physician prior to participating in any Exercise Science activity.

CalWORKs/Believe Program

Location	L-121
Telephone	619-388-3797

The CalWORKs Program offers support services to students who receive CalWORKs funding. Specialized services have been designed to support students in their education, career and personal goals while meeting their welfare to work requirements. Services include academic/vocational counseling, job placement, workshops, work study placement and verification of welfare to work hours. For more information, contact the CalWORKs office in the Academic Success Center or visit our [website](#).

Campus Store

Location: D-104
Telephone: 619-388-3548

Website

San Diego City College Campus Store provides digital materials and textbooks and supplies required for classes. Rental books are also available. The Campus Store provides study aids, snacks, school supplies, clothing, backpacks, gift items, greeting cards, emblematic items and general books. The Campus Store also buys back textbooks for cash.

Extended hours are offered at the beginning of each semester. Textbooks can also be purchased [online](#). For additional information or special Campus Store hours, please contact the Campus Store or visit our website listed above.

City Scholars Program

Location: A-366
Telephone: 619-388-3675

The City Scholars Program at San Diego City College is designed to help justice system impacted students transition to college. The program provides formerly incarcerated students with matriculation support, personal growth courses, and academic advisement. It is under the supervision of the Dean of Student Development and Matriculation. City Scholar participants are assigned a counselor, meet monthly with a peer advocate, attend campus events, and participate in relevant workshops to enhance their personal development. The goal of the program is to ensure that students who are justice system impacted

are given the support they need to achieve their academic goals.

Program Components:

- Orientation
- Counseling
- Academic/Cultural Enrichment Activities
- Mentoring

If you are interested in joining the City Scholars program, please visit Andre Jones in the Counseling Department.

Counseling Services

Location: A-366
Telephone: 619-388-3540

Counselors offer a variety of counseling services to students in order to assist and facilitate both personal, career, and academic student growth. The following

services are provided to new, continuing, transfer, and returning students. Visit the [Counseling webpage](#).

Academic Counseling

Students are encouraged to speak with counselors regarding any academic planning issues which may arise during their time at San Diego City College. Counselors will assist with identifying academic goals and developing computer generated student education plans through a scheduled appointment.

Career Counseling

Counselors offer guidance to those students who are uncertain of their career path. Students are encouraged to explore career possibilities through the guidance of career counselors, use of research materials and career assessment inventories.

Personal Counseling

Students can also receive personal counseling from the Counseling Department. Counselors will provide support to those students with issues arising from managing the stress of school life and personal life. Personal counseling sessions will be kept confidential.

Walk-in Counseling

A 5–15 minute session is available through the academic year to students with quick questions. Students may walk into the Counseling Department and speak with a counselor on a first come, first-serve basis.

Counseling Appointments

Counseling appointments are available to help students with career, educational, transfer planning, and to discuss personal issues related to academic goals.

Transfer Counseling

Through scheduled appointments students will learn how to successfully transfer to a four-year university. They will receive assistance in researching and choosing the right university based on their individual needs.

College Success/Career Planning

Courses are offered in Personal Growth listed in the schedule of classes.

Important Note: If the student's educational objective is to receive an Associate Degree or to satisfy transfer requirements to a four-year college or university, the student must send all official transcripts to the District. If the student's educational objective is only to receive a Certificate of Achievement and all certificate coursework is completed at City, Mesa, and/or Miramar College, full transcript evaluations are not required and will be automatically waived. If courses are being used from another college outside of the district, only transcripts from that institution must be submitted for evaluation.

City Times Media, Student Journalism

College Newspaper and Digital News Site

The award-winning college student newspaper and digital news site, City Times, provides students the opportunity for class workshops and hands-on experience in multimedia news writing, reporting, editing, and production of a wide range of digital and print content. Alumni from the program work in professional journalism organizations in San Diego and beyond as reporters, editors and producers. CT is one of the partners of the City Times Media platform, which can be found on the [website](#) and @sdcitytimes on social media. For degree and course information, see "Design" and/ or "Film, Journalism, and Media Production" in the Course Descriptions and the Degree Curricula and Certificate Programs. For more information, email CTM Student Media Adviser Nicole Vargas at nvargas@sdccd.edu. Call the program at 619-388-3880.

Legend Magazine

City College's Digital Journalism program is the only one of its kind in the district that offers a magazine production lab. DJRN 220 is a unique opportunity to experience the process of producing a magazine, start to finish, for the campus and surrounding community. Taking DJRN 220 is a great opportunity to develop published work that you can share as you begin your media career.

CityWorks

CityWorks is San Diego City College's creative arts annual anthology which features artwork, poetry and prose from students and the community. Each October, the staff seek artists, writers, poets, journalists, editors, graphic designers, photographers, and other creative people to seek submissions for the issue, which is published each spring. For more information, call 619-388-3522.

disAbility Support Programs and Services (DSPS)

Location: A-122
Telephone: 619-388-3513
Website

City College provides academic accommodations and services for students with disabilities in compliance with State and Federal legislation including Section 504 and 508 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act Amendments Act (ADAAA).

Eligible students who have a verified disability qualify for academic accommodations and services through the disAbility Support Programs and Services (DSPS) department. Student participation in the DSPS program is voluntary. Academic accommodations and services are designed to support students enrolled in on-campus, online, and clinical setting courses in the achievement of their academic and vocational goals.

Educational Assistance classes for students with disabilities may be available to support the college academic and vocational programs through DSPS and the High Tech Center. Academic accommodations provided may include, but are not limited to: priority

enrollment, assistive technology and alternate media, interpreters and captioning for students who are deaf or hard of hearing, note taking materials, test taking accommodations, audio recorders, use of specialized equipment and adaptive devices, and disability related counseling and referral.

Liaison with community agencies is also an important component of the program. Students are encouraged to apply early for timely services.

Service Animals

The San Diego Community College District will permit qualified students with disabilities to use service animals in district facilities and on district campuses (Procedure 3105.2) in compliance with state and federal law.

Animals are not permitted on campus with the exception of service animals for persons with disabilities. Refer to Administrative Procedure (AP 3105.2) *Service Animals*.

Early Education Center

The Early Education Center is the college instructional lab for child observations, the study of child development, and early education practicums. The Center provides state-funded child-care services demonstrating high quality interactions, curriculum, and environments to meet the needs of the whole child. Families with children between 4 months and 5 years of

age may apply for services. Eligibility and sliding scale fees are determined by state regulations. Please call 619-388-3205 or visit the [website](#) for more information. The Center is located at the north-east corner of campus at 16th Street and Russ Blvd. The infant toddler program license number is 376701496. The preschool license number is 376701495.

English Language Acquisition (ELAC)

The English Language Acquisition (ELAC) program is committed to supporting non-native speakers of English in developing their academic English language skills to enable them to succeed in college courses. We offer a range of courses designed to engage students from low-intermediate to advanced levels of English. Core courses consist of integrated academic reading, writing, and grammar as well as academic listening and speaking. Specialized courses in areas such as

pronunciation and focused grammar are also offered to support the individual needs of each student.

The ELAC program consists of four levels. Students are placed at a level based on a guided self-placement tool.

For more information on the English Language Acquisition Program, students should contact the college Counseling Department.

Evaluations

Location: A-301

Telephone: 619-388-3466

The San Diego City College Evaluations Department provides services, including information and technical support, to help students achieve their certificate, degree, and transfer goals. Working closely with students, City Evaluations supports in processing the following requests:

- Academic Renewal with Course Repetition
- Academic Renewal without Course Repetition
- Application for Graduation
- Certificate of Performance
- Credit for Prior Learning

- Modification of Graduation Requirements
- Petition for Exception to Course Repetition Policy
- Petition for Approval of Major-Area Electives
- Request for General Education Certifications
- Request to Reissue Diploma

We have transitioned to a new online submission process. Forms can be submitted electronically by accessing the [Forms and Documents webpage](#).

Extended Opportunity Programs and Services (EOPS)

Location: A-354

Telephone: 619-388-3209

What is EOPS?

EOPS is a state-funded program. The purpose of the program is to increase the access, academic achievement, retention and overall personal success for economically and educationally disadvantaged students by providing a supportive, student-centered environment. Our program is committed to enhancing the students' educational experience by empowering them to define and pursue their academic, career and personal goals. The services offered are "over and above" those offered by the college's Student Services division. The primary services include assistance in the following areas: priority enrollment, counseling and preparation for transition to four-year universities or the workplace. Services may also include book grants and other financial assistance, depending on funding. For detailed information on all services offered and application procedures, please contact the EOPS Office.

EOPS students who are single head of household and receiving CalWorks for themselves and/or their children are encouraged to apply for the program's Cooperative Agencies Resources for Education (CARE) component. CARE provides additional counseling support services including specialized workshops, meal cards, gas cards, emergency bus passes, and supplies to address those needs that are unique to single parents.

Students that are formerly incarcerated may receive service in the EOPS office. For detailed information on all

services offered and application procedures, please contact the EOPS Office or visit our [website](#).

Eligibility

Students may be eligible to receive EOPS services if they meet all of the following criteria:

1. Must be a California resident or AB540
2. Must be enrolled in 12 units or more
3. Must be eligible to receive the California College Promise Grant A or B at City College
4. Have less than 70 degree applicable units

Additionally, students must meet one of the following criteria:

- Currently or previously enrolled in a developmental level course
- No high school Diploma/GED or are a high school graduate with overall GPA below 2.5
- Are the first one in your family to attend college
- Are an emancipated foster youth
- English is/was not the primary Language spoken at home
- Belong to a group that is part of City College's student equity goals

Services for Homeless Students under age of 25 **How to Apply**

San Diego City, Mesa and Miramar Colleges are committed to ensuring that all students have a fair and equal opportunity to obtain a high-quality education and complete their educational goals. As part of this commitment, the colleges provide referral services for homeless youth through the Extended Opportunity Programs and Services (EOPS) office. Effective Spring 2017, the following services will be provided:

- Access to shower facilities on-campus during designated hours
- Referrals to student support services including financial aid, CalWORKs, DSPS, food pantries, and mental health services
- Referrals to outside agencies that support homeless shelters, housing referrals, etc. as needed
- Priority Registration, if eligible, starting Summer 2017 registration (requires submission of FAFSA or California College Promise Grant – CCPG application and verification of status)

Students that are homeless, formerly homeless or at-risk are encouraged to visit your college's EOPS office for more information.

Cooperative Agencies Resources for Education (CARE)

EOPS students who are single, head of household, parent or legal guardian of at least one child under the age of 18 and receive CalWORKs cash aid are encouraged to apply for the programs Cooperative Agencies Resources for Education (CARE) component. CARE provides additional support services to address those needs that are unique to single parents.

Financial Aid

Location:	A-270
Telephone:	619-388-3501

The Financial Aid Office is committed to assisting students who might otherwise be unable to continue their education because of financial disadvantage.

Financial Aid funds are administered in accordance with a nationally established policy of financial assistance for education. The basis of this policy is the belief that

Students interested in applying for the EOPS program must complete an EOPS application and the Free Application for Federal Student Aid (FAFSA). These applications are available in the EOPS Office and the FAFSA is available [online](#). Students should apply early to ensure that they receive consideration for all services. It is recommended that students complete the FAFSA by the priority filing date published by the Financial Aid Office.

The NextUp Program

NextUp is a supplemental component of EOPS. It provides resources and services to students who have experienced foster care. Services may include counseling, books and supplies, grants, childcare and transportation assistance, financial literacy and independent living skills support, and housing assistance. Students must meet eligibility requirements for EOPS, be under the age of 26, and in foster care on or after their 13th birthday.

Summer Readiness Program (SRP)

SRP is a summer orientation for first-time college students. Participating students attend classes four days each week for eight weeks. The course work includes material designed to develop and enhance college survival skills. In addition to the course work, a full complement of EOPS services is provided.

Applications are usually available in early January and accepted until the end of the first week of May. Interested applicants should contact the EOPS Office for details.

students and their parents have the primary responsibility for meeting educational costs. The amount of the contribution expected from students and their family is determined by careful analysis of family financial strength taking into consideration net income, number of dependents, allowable expenses, indebtedness, and assets. The U.S. Department of

Education, in cooperation with Congress and educational agencies, has established procedures which

are used in making an evaluation of the amount families can be expected to contribute.

Application

On a yearly basis, all financial aid applicants must complete the Free Application for Federal Student Aid (FAFSA), or a California Dream Act application for all financial aid, including the California College Promise Grant – CCPG. To complete your FAFSA, visit the [FAFSA website](#). To complete a California Dream Act application, visit the [Dream Act website](#). FAFSA Application materials are available on October 1st for the following academic year. The priority filing deadline for aid is April 15th. Students filing their application by this date will be considered first in the award process. Deadline to apply: The Central Processing System (CPS) must receive your application by your last day of classes for the term or June 30, 2023 whichever date comes first. The deadline for Cal Grant application is March 2nd.

A current Admission's Application to the College must be on file before we can process your FAFSA application. Complete the application using your personal information as it appears on your Social Security card or our office will not be able to process your financial aid application.

Academic transcripts from prior colleges attended are not required to be submitted before processing a financial aid application. Academic transcripts must be submitted directly to the District Records Office.

All inquiries such as disbursement of funds, document submission, appeals, etc., MUST be made on or before the deadline date. After the close of the academic year, we will no longer be able to process any financial aid application or disbursements.

Eligibility

In order to be eligible to apply for financial aid, a student must be a citizen or permanent resident of the United States or be in the country for other than a temporary purpose with the intention of becoming a permanent resident.

Eligible non-citizens may be required to provide proof of permanent residency for Federal Aid. F-1, M5, R1, or R2 Visa students are not eligible for financial aid at San Diego Miramar College. For further information regarding other eligible immigration statuses, contact the Financial Aid Office.

Students must have a high school diploma, GED or equivalent in order to apply and qualify for Financial Aid. Contact the Financial Aid office for additional information.

Awards

Awards take the form of a "package" of financial aid, usually consisting of grant money and work-study, depending on the financial need of the applicant and availability of funds. Awards may be adjusted at any time upon notice of receipt of resources not previously reported or a change in enrollment status. Revisions to awards may be possible because personal financial circumstances are so unpredictable. If funding is available, aid for valid educational expenses not already covered in the student cost budget may be increased.

Financial aid checks are usually ready for disbursement approximately four or five weeks after the start of classes. Pell Grant and Cal Grant disbursements are based on enrollment levels at the time of payment and will not be adjusted. However, SEOG and loan payments will be adjusted according to enrollment status. If you

withdraw from classes after aid has been disbursed to you, you may be required to repay all or part of this aid. (see "Return of Title IV Funds" below)

An automated system is available in the college bookstores to allow California Resident students, who are enrolled in at least six units, to use a portion of their estimated Pell Grant to purchase books and supplies one week prior, and two weeks after the start of the semester. Funds will be set aside from each eligible student's Pell Grant or Cal Grant C, and placed in a special account in the bookstore. This account may be used for the purchase of books and supplies until the funds are exhausted or by the end of the bookstore window, whichever comes first. The account is valid at the City, Mesa, and Miramar College, and ECC

bookstores, regardless of where students are taking classes.

The student will be responsible for paying back the Bookstore the Pell Grant used if the student does not attend classes or, if the student loses eligibility at any time after being offered the award.

Students who elect not to purchase books from the college bookstore, or have any funds remaining on

account, will receive the funds in the mail or by direct deposit with the remainder of their Pell Grant award according to the Pell Grant payment schedule for the semester.

Students must be making satisfactory academic progress as determined by the Standards of Satisfactory Academic Progress for Financial Aid Recipients. Copies are available in the Financial Aid Office.

Return of Title IV Funds

Federal law requires that if a student receives a Federal grant and then drops/withdraws from all of his/her classes, he/she may owe money back to the Federal Government.

Note that the earlier a student drops/withdraws, the more money he/she may have to pay back.

- If a student receives LOAN money and withdraws, he/she must pay back the money according to the normal rules of the loan program.
- If a student receives WORK STUDY money and withdraws, he/she does not owe anything back and may keep the salary earned; but must stop working immediately.

For more information about the timeframe to repay, the consequences of not paying and a sample Return of Funds calculation, visit our [financial aid webpage](#).

Financial Aid Programs Available

Following is a basic description of the programs available. Contact the Financial Aid Office for detailed descriptions and eligibility requirements, or visit our website.

Enrollment Fee Assistance: California College Promise Grant –CCPG

State law requires that students attending the college pay an enrollment fee. Students enrolled in credit classes are currently required to pay \$46.00 per unit. one of the following statements applies to your current status:

The college offers the California College Promise Grant (CCPG), a state-funded program which will waive the enrollment fee for all eligible applicants.

Important Note: Students who are eligible for a California College Promise Grant (CCPG) will be required to pay the health fee.

The health fee will no longer be waived for students who are eligible for a CCPG other than students who are eligible for a CCPGA (TANF/CalWorks, SSI/SSP, or General Assistance).

Students may apply for the CCPG one of two ways:

- Submit a [FAFSA](#) or a [California Dream Act Application](#), or
- Apply for the CCPG online; please visit the [financial aid website](#) for more information. Apply via [the CCPG website](#).

If you are a California resident or have been designated an AB-540 student, you may qualify for a CCPG if any

- You have already qualified for financial aid, such as a Federal Pell Grant or a Cal Grant, which demonstrates that you have need as determined by Federal Methodology or California DREAM Act application. You must have at least \$1,104 on “unmet” need to qualify.
- You, or your parents in the case of a dependent student, are receiving TANF (Temporary Aid for Needy Families), SSI (Supplemental Security Income), or General Assistance/General Relief as main source of income at the time of enrollment.
- You have a letter from the Department of Veterans Affairs certifying that you meet the eligibility requirements of “certain disabled veterans, dependents of certain deceased or disabled veterans.”
- You are a dependent of a deceased or disabled veteran of the California National Guard. You must submit a letter of certification from the California National Guard Adjutant General’s Office.

- You are a recipient of the Congressional Medal of Honor or a child of a recipient. You must submit documentation from the Department of Veterans Affairs.
- You are a dependent of a victim of the September 11, 2001, terrorist attack. Must submit documentation from the CA Victim Compensation and Government Claims Board.
- You are dependent of a deceased law enforcement/ fire suppression personnel killed in the line of duty. You must submit documentation from the public agency employer of record.
- You have been exonerated of a crime by writ of habeas corpus or pardon. You must submit documentation from the Department of Corrections and Rehabilitation.
- You meet the following income standards:

To determine your eligibility for the California College Promise Grant – CCPG based on the above income standards, you will be considered independent if:

- You do not live with your parents or your parent’s registered domestic partner.
- You were not claimed as an exemption on any federal income tax filed by your parents or your parent’s registered domestic partner in 2020.

New State regulations have changed eligibility requirements for the California College Promise Grant. Starting Fall 2016, in addition to income and residency requirements, students must maintain academic and progress standards to maintain California College Promise Grant (CCPG) eligibility.

These income standards are for the 2023–2024 academic year and are used to determine California Promise Grant Part B eligibility EFFECTIVE July 1, 2023.

Number In Household (including yourself)	Total Family Income for 2022 (adjusted gross income and/or untaxed income)
1	\$20,385.00 or less
2	\$27,465.00 or less
3	\$34,545.00 or less
4	\$41,625.00 or less
5	\$48,705.00 or less
6	\$55,785.00 or less
7	\$62,865.00 or less
8	\$69,945.00 or less
Each Additional Family Member \$7,080	

Appeal Process for Loss of CCPG

Students will maintain their CCPG eligibility as long as they are in good academic standing. Students who believe their recent academic performance is based on circumstances outside their control, or believe they have made substantial academic improvement, may appeal the loss of CCPG eligibility by submitting a Loss of CCPG /Enrollment Priority Petition to the Dean of Student Development five (5) business days prior to the Application and Registration Deadline posted on the Academic Calendar. Petitions will be reviewed in the order they are received by the Dean of Student Matriculation.

Federal Pell Grant

The Federal Pell Grant is the largest federal grant program and is the foundation of a student’s total “aid package.” Eligibility is determined by the federal government using a standard formula for all applicants.

Effective July 1st, 2012, all financial aid applicants are subject to 6 years maximum of Pell Grant lifetime eligibility or 600%.

Enrollment status will be frozen at the time of disbursement after the add/drop period and will be the basis for Pell award. Once the Pell Grant award has been processed it will not be adjusted for additional units added during the semester. If you have a bachelor’s degree, you are not eligible for a Pell Grant.

Federal Supplemental Educational Opportunity Grant (FSEOG)

FSEOG is a federal grant program designed to assist students who have the greatest demonstrated financial need. Awarding of FSEOG funds is determined by the Financial Aid Office based on available resources. If you have a bachelor's degree, you are not eligible for FSEOG.

Cal Grants

The Cal Grant program is administered by the California Student Aid Commission to help low-income students attend college. Students at the college may receive Cal Grant A (SWD), B, or C.

- To be eligible for Cal Grant B a student must be a California resident, or an eligible AB540 designated student and pursuing an undergraduate academic program of not less than one academic year.
- Cal Grant C is designed for students enrolled in a vocational program who are California residents or eligible AB-540 designated students from a low- or middle-income family.
- Additional Cal Grant Access Funds for Students With Dependents (SWD), Independent Students with dependent children under 18 years of age by July 1st of the award year (start of the financial aid award year), and for whom the student will provide more than half of their support between July 1st and June 30th of the award year may be eligible for the following: Cal Grant Access awards up to \$6,000 for qualifying Cal Grant A and B recipients and up to \$4,000 for eligible Cal Grant C recipients. Actual award will be based on remaining unmet need.
- See the Financial Aid Bulletin for important dates and deadlines.
- Cal Grant Program is not available for students accepted into the Comprehensive Transitional Program (CTP).
- If you have a bachelor's degree, you are not eligible for a Cal Grant.

Chafee Grant Program

The Chafee Grant is a federal program that is administered by the California Student Aid Commission to provide financial assistance to prior Foster Youth. The applicant must be certified by the State Department of Social Services of their Foster Youth status prior to reaching age 16. The grant has no citizenship requirement; however, non-citizens without a valid Social Security Number must call the CSAC for additional steps and information. The program awards a maximum of \$5,000 per academic year. Renewal applicants must maintain satisfactory academic progress as defined by the school.

Student Success Completion Grant

Important Prerequisite: Be a full time Cal Grant recipient - The SSCG is a California Community Colleges financial aid program designated for Cal Grant B and Cal Grant C recipients who are carrying an academic load of at least full time (12 units or more) by the semester financial aid enrollment freeze/census date. The purpose of the SSCG grant is to provide eligible students with additional financial aid to help offset the total cost of community college attendance, to encourage full-time attendance, and assist in the successful on-time completion of the student's degree objective. Due to limited funding, the awards are made on a first-come-first-served basis. In order to be eligible for this grant, the student must be registered in ALL planned units for the semester by the published census/freeze date. The grant pays up to \$4000 annually based on the number of units: if the student's enrollment is between 12 – 14.99 units, the award is \$1,298 for the semester; if the student's enrollment is 15 units or more, the award \$4,000 for the semester. Eligibility is determined every semester after the financial aid census/freeze date and based on available funds.

Federal Work Study

Federal Work Study (FWS) allows students the opportunity to earn part of their financial aid by working in assigned jobs, both on and off campus. The salary received is at least equal to the current minimum wage, but many Federal Work Study jobs pay more than minimum wage. Federal Work Study differs from the other financial aid programs in that a student is allocated a certain amount of money to earn. As work on the job is completed, a time card is submitted for the hours worked just as at a regular job. Once a month the student receives a paycheck for the hours worked. Once the amount allocated in the financial aid package is earned, the job ends.

Student Loans

Applicants for student loans will be subject to college policy requirements regarding enrollment status, length of attendance, the number of units completed, and the total amount of previous loans. Student Loans are not available for students accepted into the comprehensive Transitional Program C2C. Student Loans are not auto-awarded to any student.

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Student loans are not auto-awarded to any student.

Contact the Financial Aid Office for other requirements.

Scholarships

Students are encouraged to apply for scholarships, which are available for students who meet the qualifications. These awards are donated by individual contributors, clubs and organizations both on campus and in the community. Amounts are determined by the donors and vary. Qualifying criteria may include that the student meet financial needs, a designated grade point average or other requirements to be eligible for consideration. For more information, visit the [City Scholarships webpage](#).

William D. Ford Federal Direct Loan Program

The Federal Direct Loan is a federal loan program where you borrow directly from the Federal Government. The interest rate for new loans is a fixed rate which is currently 3.73% for loans disbursed from July 1, 2021 to June 30, 2022. You are required to pay the Department of Education loan processing fees that are currently 1.057%. The fees are deducted from the proceeds of your loan. The origination fee will change for any loan disbursed after October 1, 2022.

New Federal regulations require schools to disburse loans only after the signed Promissory Note has been accepted.

For first-time student borrowers, the funds will not disburse until at least 30 days after the start of the student's active enrollment in 6 (six) units

1. Direct Subsidized loan

To qualify, a student must be enrolled in at least six units, demonstrate Satisfactory Academic Progress for Aid recipients and must demonstrate financial need through the federal methodology using the FAFSA Application. Students must complete a mandatory loan entrance counseling session. Students must contact the Financial Aid Office or visit the College website for application procedures. You may complete the entrance counseling session [online](#).

You must complete an [online](#) multi-year Master Promissory Note.

On August 13, 2021, the Secretary removes and amends regulations to conform with changes made by the Consolidated Appropriations Act, 2021. Specifically, the Secretary removes the subsidized usage loan limit restriction (SULA) for any borrower who receives a Federal Direct Stafford Subsidized Loan first disbursed on or after July 1, 2021, regardless of the award year associated with the loan.

The Financial Aid Office will be notified when the session has successfully been completed. In addition, you must fill out a Loan Request Form from your Financial Aid Office. You must complete an [online](#) multi-year Master Promissory Note.

You may also be required to submit an Educational Plan and be enrolled at the campus of your declared major. Please ask your Financial Aid Office for more information. The actual loan amount for which you are eligible will be determined by the Financial Aid Office. Checks will be disbursed twice per loan period. If you are a first-time student or borrower, your check will not be disbursed until at least 30 days after the start of the semester. If you have "Late Start" classes, you must be actively attending classes in at least six units, before your loan can be disbursed.

For additional information, please refer to the Financial Aid Bulletin or call the Financial Aid Office at 619-388-3501.

2. Direct Unsubsidized loan

An unsubsidized student loan is a type of loan in which interest begins accruing on the disbursement date. The accrued interest is capitalized and added to the loan balance until the repayment process begins, which is also charged during in-school, deferment, and grace periods. A student must be actively enrolled in at least six units, have a valid FAFSA on File, and demonstrate Satisfactory Academic Progress for Aid recipients. The students do not need to demonstrate financial need through the FAFSA's federal methodology, and the loan award cannot exceed the Federal Annual borrowing limit. The actual eligible amount of the loan will be determined by the Financial Aid Office once the application has been reviewed. Students must complete and submit the paper loan request form to the Financial Aid office, along with all the required documentation

described in the loan steps disclosed in the loan request form. In addition, a copy of the Educational Academic plan may be required.

Federal Direct PLUS Loan

Parents of dependent undergraduate students may borrow from the PLUS loan program. The amount borrowed may be up to the cost of attendance minus any financial aid. Checks will be payable to the parent. Parents must begin repayment within 60 days of receiving full dispensation of the loan. The interest rate is a fixed rate. Student and borrower must meet all other financial aid eligibility requirements, including completing the FAFSA.

National Student Clearinghouse

All current SDCCD student's enrollment levels are automatically sent to the National Student Clearinghouse. Submission and disclosure of enrollment levels is a federal requirement for students with current and past student loans according to regulations. Enrollment information for students with no prior or current student loan history is protected from disclosure by the contractual agreement between the National Student Clearinghouse and the San Diego Community College District. For more information, please contact your campus Financial Aid Office.

HUBU

Location:	A-341
Telephone:	619-388-3609

The Hermanos Unidos/ Brothers United (HUBU) Learning Community focuses on improving the success rates of African American and Latino male students. HUBU aims to enhance the academic, social and cultural experiences of men of color at San Diego City College. The HUBU curriculum focuses on identity development, and its relevancy in understanding students' personal and academic goals.

The program's educational philosophy is centered around the concept of validation through pedagogy responsive to ethno-cultural groups and practices that deliberately engage students as full participants in the learning process.

Along with courses such as Personal Growth, English, Black/Chicano Studies, HUBU participants receive the following personalized services:

- Personal Development
- Mentoring
- Activities that promote student involvement on the campus and in the community.

For more information or to join, please contact Rasheed Aden via phone (619-388-3609) or email (aaden@sdccd.edu).

Learning Resource Center (LRC)

Location:	
Telephone:	619-388-3421

The San Diego City College's Learning Resource Center (LRC) serves the information and study needs of the City College community. Located in the R building on the southeast corner of campus at Park Boulevard and B Street, the LRC is comprised of the Library on the second (main) and third floors, the Independent Learning Center and the Office of Classroom Technology Management

are on the first floor. Monitors on each floor are set to broadcast campus information. San Diego City College students will find that the LRC provides a multitude of services and scholarly research resources specifically selected to support their academic success. Below is a brief overview of our resources and services.

LRC / Library

Phone: 619-388-3421

The Library offers an extensive collection of both print and electronic scholarly books, reference resources, periodicals (scholarly journal, newspapers, magazines), and videos. Remote access is available to our e-books, e-periodical databases, and streaming video databases. Wireless internet access is available throughout the library.

San Diego City College students find help with their research and information needs at the Library's information Center (reference desk), by phone, email, or 24/7 online chat. They can also get help in-person or online via one-on-one and small-group appointments. Students may enroll in a transferable one-unit course, Information Literacy and Research Skills (LIBS 101). Scheduled tours, instructor requested research sessions, access to reserves, circulation services, group study rooms and interlibrary loan services between district colleges are also offered. Please see our [website](#) for more information.

LRC / Independent Learning Center

Phone: 619-388-3766

The Independent Learning Center (ILC) creates a welcoming environment for students pursuing independent learning experiences to augment their in-class activities and improve their academic skills. The ILC provides access to the Internet, a wide array of specialized software required for a variety of classes, adaptive software, and Microsoft Office Suite.

LRC / Office of Classroom Technology Management

Phone: 619-388-3418

The Office of Classroom Technology Management and Multimedia (OCTM) provides technical support and maintenance for smart classrooms and all campus-wide audiovisual equipment required for a modern college in the 21st century. In addition, OCTM manages and maintains the digital signage services campus-wide. Moreover, and in collaboration with the campus Business Office, OCTM addresses requests for technical assistance for campus-wide events.

Mental Health Counseling

Location: A-180

Telephone: 619-388-3055

Mental Health Counseling supports student success through focus on personal, social, and emotional well-being. Our culturally sensitive, trauma-informed services for students are confidential and free. Mental health counseling is designed to support overall wellness in a proactive, relaxed and caring atmosphere.

Teletherapy via Zoom for Healthcare and Face to Face (in person) sessions are offered (depending on current district policy). Counseling services are provided by Licensed Clinical Social Workers, Licensed Marriage and Family Therapists, Licensed Professional Clinical Counselors, Masters level staff and graduate interns/trainees and include:

- Individual strengths-based therapy
- Couples and family therapy
- Group therapy and educational workshops/ training for students, faculty and staff
- Crisis intervention and resource links (crisis and case management)

- Campus wide prevention and awareness events
- Cognitive behavioral based therapy and mindfulness training targeted at addressing specific school related problems such as test taking anxiety, math anxiety, panic disorder, etc.
- Faculty/Staff consultations and instructional collaborations to promote student success
- Collaborative Care Team support and disciplinary evaluations
- Collaboration with the Student Health Clinic and Basic Needs Program for wrap around care

Students can request an appointment via phone, [website](#) or in person in A180.

For additional information, please see Student Health Center.

MESA Program

Location:	T-393
Telephone:	619-388-3156

The Mathematics, Engineering, Science Achievement (MESA) Program enables educationally disadvantaged students to prepare for and graduate from a four-year college or university with a math-based degree in areas such as engineering, life and physical sciences, computer science, and mathematics. Through MESA, students develop academic and leadership skills, increase educational performance, and gain confidence in their ability to compete professionally.

MESA has particular interest in and focus on students from those groups who historically have had the lowest levels of attainment to four-year and graduate level programs. By closing this achievement gap, MESA students and graduates will be better able to make significant contributions to the socioeconomic well-being of their families and their communities.

In MESA you will find:

- A place to study with other students in your major
- Walk-in tutoring in math and science
- Easy access to computers and printing
- Reference textbooks and scientific calculators available for student use
- Current scholarship, internship, and research opportunities
- Counseling support for transfer and career exploration
- Activities sponsored by the San Diego MESA Alliance

If you are interested in joining the MESA program, please visit the MESA Center in room T-393.

Outreach

Location:	A-250
Telephone:	619-388-3496

Our goal is to inform, support, and guide prospective students, families, agencies, and the community through interest, exploration, and enrollment to the institution. The Outreach Office will aim to empower students by providing the most up-to-date information, program contacts, and a clear pathway to successfully matriculate through the enrollment process.

Core Outreach Services:

- City InfoKNIGHTS
 - Mobile information sessions held in the community
- The City Experience
 - On campus tour of the campus and connection to the campus resources
- City Connect Sessions
 - Street outreach sessions delivered by ambassadors

- City Insight Sessions
 - A comprehensive program which reviews campus resources, academic programs, degree, and certificates
- City Con NEXT Sessions
 - Provide support to prospective students and families in the completion of the steps to enrollment

Connect with us:

- Email: cityoutreach@sdccd.edu
 - [Outreach Website](#)
 - Phone: 619-388-3496
 - Social media:
 - Instagram & Twitter: SDcityOutreach
-

Performing Arts

The City College Department of Visual and Performing Arts present plays and dance performances to the public throughout the year. We provide a vibrant educational environment that cultivates creative learning experiences between students, teachers, and the community.

Puente Project

Location: A-341
Telephone: 619-388-3668

The Puente Project, co-sponsored by the University of California and the Community Colleges, is an academic preparation, retention and transfer program. Puente is a program in which students participate in three components:

- Writing—students enroll in English 101X for the Fall, English 205 for the Spring and Communications 103 the following Fall semester. Course materials focus on Chicana/Latina literature & experience to enhance writing skills.
- Counseling—academic, personal, transfer and career counseling is offered. Students enroll in

Personal Growth 120 for the Fall semester and Personal Growth 130 for the Spring semester.

- Mentoring—students are exposed to various career options through their close involvement with mentors.

Materials utilized in the Puente Project come from the Chicana/Latina perspective. Classes are open to all students. If interested in participating, please stop by the Counseling Department and speak to the Puente counselor or visit our [website](#).

San Diego Promise Program

Location: A-313
Telephone: 619-388-3998

The San Diego Promise is a two-year completion program for recent high school graduates enrolled full-time (12 units per semester). The program provides up to two years of FREE tuition to eligible students. Participation in the San Diego Promise Program comes with a variety of benefits: an assigned peer mentor/success coach, specialized counseling and guidance support, and additional campus engagement opportunities. For detailed information on all services offered and application procedures, please contact the San Diego Promise Program located in A-313 or visit our [website](#).

Eligibility

To be eligible for the San Diego Promise Program, students must meet all of the following criteria:

- Must be a first-time to college student*
 - Must be a class of 2022 high school graduate** (H.S. Diploma or GED) OR identify with one of the following groups:
 - Foster Youth Student
 - Veteran of U.S. Armed Forces
 - Formerly Incarcerated Student
 - Undocumented Student
 - Must be a California resident or AB 540 eligible
 - Must complete a 2023-2024 financial aid application (FAFSA or CA Dream Act)
-

- Must be prepared to enroll in a minimum of 12 units each semester (does not apply to students with disability (DSPS) accommodation on file)

*Student who completed college courses while in high school are eligible

** First time to college, class of 2022 high school graduates (H.S. Diploma or GED) maybe eligible

To find out if you may qualify to participate in the San Diego Promise, please contact us via email at sdpromisecity@sdccd.edu or call us at 619-388-3998 or call 619-800-3464.

Student Accounting

Location:	A-256
Telephone:	619-388-3458

The San Diego City College Student Accounting Office is located in A-256. You can pay for your classes, purchase a parking pass, and more.

Student Affairs/Campus Life

Location:	M-200
Telephone:	619-388-3498

The Office of Student Affairs provides a variety of services designed to provide students with a well-balanced academic and extra-curricular college experience.

Student leadership, clubs and organizations, cultural events, graduation and other support services are offered through the Office of Student Affairs.

Associated Students Government (ASG)

The Associated Students is the governing body that finances, organizes, and directs many student-sponsored programs and activities at City College. Elections are held annually for Associated Student President and other officers. Any student registered for units at City College at the time of the election may vote in the elections.

Current district policy allows the elected Associated Student President to share the responsibility of the Student Trustee. The Student Trustee is a non-voting member of the Board of Trustees of the San Diego Community College District and represents the student voice on the Board.

Any student who participates in student government may not have any Policy 5500 violations of suspension or greater, as stated on their official student record.

You may view a full copy of the policy by accessing the following [website](#).

Associated Students Membership

Support your student body by purchasing an AS membership. The membership entitles you to special benefits and privileges. The revenues go back to support various campus events and activities. See the Associated Students office, M-200 for a list of current benefits.

Student Organizations

There are over 30 active student organizations on campus reflecting the diversity of interest of the student body. Students wishing to charter or register new organizations should contact the Student Affairs Office in M-200.

Student Health Center

Location: A-180
Telephone: 619-388-3450

Location: A-180
Telephone: 619-388-3055

The City College Student Health Center program consists of medical, nursing and mental health care. Mental health care and support is provided by Mental Health Counseling. The medical/nursing program provides preventive and primary health care, with linkages to community resources as needed. Students are welcome to call or email the office to schedule an appointment with the Student Health Center physician or nurse practitioners. Same day appointments may be available. Our services for students are confidential and free/low cost.

Ambulatory medical care is provided by the physician or nurse practitioners. This includes history and physical assessment of skin, muscle, joint, respiratory, gastrointestinal, endocrine and/or other system problems. Medical linkages are made to the community as indicated. Laboratory tests and prescription medications are provided at low cost, as ordered by the physician or nurse practitioner. First aid is provided for minor problems. For severe or life-threatening issues, emergency care is accessed through the Emergency Medical Transport System of San Diego.

For the protection of college students and personnel, students may be asked to supply health records. In addition, the college may require health consultations and physical examinations when they appear necessary. Legal injection of prescribed medications must occur in the Student Health Center for safety purposes. All students are strongly encouraged to obtain immunizations against communicable diseases as recommended by the State of California and San Diego Public Health Departments.

Student Accident Insurance/Claims

The Student Health Fee provides coverage for on-campus accidents or college-related injuries. All student campus injuries are processed through the Student Health Center in A-180 as soon as possible after the accident/injury has occurred.

For additional information on Mental Health Counseling, please refer to the Mental Health Counseling Center section.

Support Services

Food Services

The cafeteria serves both day and evening students:

D-120 Campus Cafe

serving coffee and espresso drinks, and hot grill items

D-120 Knights Store

providing grab and go items, and refreshing drinks

16th and C Store – MS Building Lobby

serving coffee and espresso drinks, and grab and go items

College Police Department

The College Police Department is responsible for providing public safety, law enforcement and crime prevention services. Its mission is to maintain peace and order and a safe learning environment throughout our

District. It is also responsible for administering the campus parking program, lost and found and the building security program.

The police business office is located in V-100. For information and general assistance, call 619-388-3461. For police assistance, call 619-388-6405. Emergency services are provided 24 hours a day 7 days a week. Learn more about [College Police](#).

Police Escort and Related Services

The college police are available to provide safety escorts, vehicle battery jumps, and vehicle lockout services during regular hours of operation. Students who wish to use these services should call College Police Dispatch at 619-388-6405 or go any of the College Police Offices at the following locations for assistance:

City College (V-100).....619-388-3461
 Mesa College (Q-100).....619-388-2749
 Miramar College (T-100).....619-388-7353
 or 858-536-7353
 College Police Dispatch.....619-388-6405

5. Bicycles must be parked only in designated bicycle racks. Students are not allowed to ride bicycles, motorized bikes, scooters or skateboards on campus. Violators are subject to citation and/or disciplinary action.

Emergency Calls

The college will not interrupt classroom instruction to deliver messages, except in extreme emergencies. All calls/inquiries should be referred to the College Police Dispatch at 619-388-6405.

Parking

1. Student parking permits are available for purchase during online registration or at the campus accounting office. Permits paid for before classes begin are generally mailed and those purchased after classes begin must be picked up. Parking permits are required the first day of each semester; fall, spring, and summer. There is no grace period.
2. Students may not utilize staff/faculty parking areas unless they are the owner of a valid, state issued disabled placard. Owners of a valid disabled placard are not required to buy a parking permit.
3. There are time limited visitor parking spaces at each campus reserved for visitors' use only. Students, except owners of a valid state issued disabled placards, may not utilize visitor parking. All campuses have pay and display machines for visitor and student use. Visitors and students can also download the ParkMobile! mobile app to pay by credit card. Pay and display permits and ParkMobile! payments are only valid in student parking spaces.
4. Motorcycles must display a valid motorcycle permit and be parked in designated motorcycle parking only.

Transportation for Students with Disabilities

Paratransit (curb-to-curb) service is available for a fee to persons with disabilities who cannot use public transportation. ADA certification is required. Please contact DSPS for additional information or forms for certification. Students may also contact MTS (Metropolitan Transit System) at 888-517-9627.

Vehicle Immobilization/Booting/Towing/ Hold

Vehicles that accumulate five (5) or more unpaid parking citations are subject to immobilization (booting) of their vehicle and/or impound (towing) at owners expense. In addition, a hold may be placed on the vehicle registration. If a vehicle accumulates \$100 or more in outstanding fines a hold may be placed on the student's registration and/or diploma.

Emergency Cell Phone Numbers

The College encourages students to provide cell phone numbers to communicate with them in the event of a college or district-wide emergency. Students can provide this important information in the [student portal](#).

Transfer/Career Center

Location: A-301
Telephone: 619-388-3722

Our mission is to assist students to successfully transition from San Diego City College to a four year institution or immediately into the career of their choice. We empower students in the transfer and career process to ensure a smooth and positive transition.

University Transfer/Career Services

The Transfer/Career Center is a resource center that assists students in planning their transition to a new career, new job, or transfer to a four-year university. The

Center also administers guaranteed transfer admission programs to selected universities.

The Transfer/Career Center offers assistance in the following areas:

Service Offerings

- Transfer workshops
- University fairs
- Connection to College representatives

- University tours
- Transfer deadlines, information on CSU's, UC's, and private colleges
- Associate Degrees for Transfer (ADT)
- Career Preparation workshops
- Resume reviews
- Job search assistance
- Job placement

- Internship placement

Visit the Transfer/Career Center [website](#).

Tutorial Services

Tutorial/Learning Center

The Tutorial/Learning Center is located in the Academic Success Center (L-205). The Center is dedicated to providing high quality academic support to students in art, science, vocational, and technological courses. The goal is for each student to become an independent learner, who will succeed in the collegiate setting.

Peer tutors are carefully selected and professionally trained for most college subjects. Many are bilingual to help with language barriers. They provide FREE walk-in and small group tutoring in most subject areas. Supplemental Instruction (SI) and Online tutoring are available on limited subjects.

All City and ECC students must sign up to receive tutoring services.

For hours of operation and additional information, visit our [website](#), or call 619-388-3685.

English Center

The English Center is located in the Academic Success Center (L-209). The Center offers peer tutoring in reading, writing, and critical thinking assignments in classes across the curriculum. Tutors can provide assistance on a wide variety of assignments at any stage of the writing process. No appointments are taken; tutors see students on a walk-in basis. The Center is a free service to City College students. Hours, which may vary from semester to semester, are posted outside the Center.

Umoja

Location:	A-341
Telephone:	619-388-3796

The Umoja Community is a learning community that seeks to engage, connect, educate, support, and encourage students through a program of math, English,

Math Center

The Math Center, located in the Academic Success Center (L-208), understands the importance of student-success, as well as students' learning needs. Our mission is to provide a flexible student-centered environment that supports students' effort to complete college math requirements. We strive to provide multiple services and resources that are conducive for student learning. These services include, but are not limited to:

- Walk-in Tutoring: Math 34A – Math 252
- One-on-one Tutoring
- Small group Tutoring
- Math 15ABC Refresher Courses (short term)
- Weekly Math 96 Workshops
- Computer Access to MyMathLab, Aleks, etc.
- TI Graphing Calculator Access

The Math Center's hours of operation are Monday–Thursday 10:30am–7:00pm, Friday and Saturday 10:30am–2:30pm. The Math Center's services are free of charge to all current students taking a math class at City College. Important Note: Student Identification (CSID) is required for all who wish to utilize services in the Math Center.

For additional information visit our [website](#).

Computer Services

The use of District computer equipment is limited to District staff and students.

and personal growth courses to prepare students for transfer to four-year colleges and universities. Course materials, discussions, and activities focus on African-American culture, literature, and experiences.

Program Components:

- Orientation
- Counseling
- Academic/Cultural Enrichment Activities
- Mentoring
- Supplemental Instruction/Tutoring
- Umoja Village

- Leadership Conferences

If you are interested in joining the Umoja Community, please visit Erin Charlens in room A-341.

Veterans and Service Members

Location:	A-241
Telephone:	619-388-3504

Veterans Center Military Service Connected Benefit Programs

The San Diego Community Colleges have been approved to offer military service connected benefit programs leading to a Certificate of Achievement or Associate Degree or transfer to a four-year institution. The Veterans Office staff provides guidance to veterans and assists them in the selection of educational programs which qualify for veterans benefits. The final responsibility for monitoring the process of qualification for educational benefits resides with the individual. Each veteran must read, understand, and comply with the many rules, regulations, and procedures that influence the benefit process.

Students on active duty and veterans who have been discharged within the past 15 years may be eligible for up to 4 years priority registration. Check with the college Enrollment Services Office for eligibility. An Active Duty Military ID card or DD214 are required for verification.

The District prohibits high-pressure recruitment tactics such as making multiple unsolicited contacts (3 or more), including contacts by phone, email, or in-person, and engaging in same-day recruitment and registration for the purpose of securing Service member enrollment. See [AP 5013](#)—Students in the Military for additional information.

Important Note: Failure to take the proper classes may result in an overpayment and the reduction or termination of benefits.

Disabled Veterans

Veterans who qualify for educational benefits as disabled veterans may be entitled to special educational benefits. Veterans should visit the Veterans

Administration Regional Office, 8810 Rio San Diego Drive, San Diego, CA, 92108, to determine their eligibility for disabled status (Telephone: 1-800-827-1000).

Veterans with disabilities are encouraged to pursue services offered through disAbility Support Programs and Services, A-122.

Veteran Dependent Exemption

Children and spouses of U.S. Veterans with service connected disabilities may be eligible for waiver of college fees and/or for a small monthly payment. For more information see the Financial Aid or the Cal Vet [website](#).

Liability

The veteran assumes full liability for any overpayment of veterans benefits.

All persons receiving educational benefits must report to the Veterans Office after enrollment **every semester** to continue their benefits. **In addition, a Student Education Plan (SEP) must be on file by the end of the first semester;** otherwise, certification of VA benefits will be delayed for the second semester. This plan must be developed and reviewed by a counselor.

Number of Units Required

For students enrolled in a degree program under CH: 30, 31, 35, 1606/1607, the following number of units are required each semester to qualify for educational and training allowance:

12 units or more	full allowance
9 – 11.5 units	three-fourths allowance
6 – 8.5 units	one-half allowance
2 – 5.5 units	one-quarter allowance*

* Chapters 32 and 1606 only. All other chapters, tuition and fees only.

Short-term and summer session courses are computed proportionately for payment purposes.

Rate of Pursuit (Chapter 33)

The Chapter 33 housing allowance is paid if the rate of pursuit is more than 50%. The Department of Veterans Affairs calculates the rate of pursuit by dividing the benefit-eligible credit hours/units (or credit hour equivalent) enrolled by the number of credit hours/units considered to be full-time by the school. The resulting percentage is the student's rate of pursuit.

Please visit the [website](#) for additional information and updates.

Withdrawal/Change of Classes

Veterans are required to notify the campus Veterans Office when they stop attending class, withdraw from the college, or add or drop a class. Such changes should be reported immediately after completing the add/drop procedure. Failure to comply with this regulation will be grounds for decertification of VA benefits.

Veterans Academic Progress

A veteran student on Academic probation status will be dismissed when his/her semester grade point average (GPA) falls below 2.0 the subsequent semester. A veteran student on Lack of Progress probation status will be dismissed if he/she does not complete over 50% of attempted units in the subsequent semester. The College Veterans Office is required to notify the Department of Veterans Affairs (DVA) of this status. The DVA will terminate benefits unless it can be shown that the student is pursuing an appropriate objective and has a reasonable chance for success in the chosen program. Please contact the Veterans Office for more information.

Readmission After Termination Status

Students who wish to be considered for readmissions after the VA termination will be required to meet with a

VA counselor and develop a Student Success Plan prior to being readmitted.

Repeated Classes

Veterans may not receive benefits for a repeat of a course in which a grade of "A," "B," "C," "D," or "P" has already been earned. Although District policy allows a student to repeat a course in which a "D" grade has been received, the course may be certified for benefits only if this catalog states that a grade of "C" or better in that course is required to earn a degree or meet a prerequisite.

Work Experience

Veterans may be approved for Work Experience classes only if it is required for their major or electives are available according to their education plan.

Transcripts

All official transcripts of prior college work and military schools, including copies of form DD214, DD2685, Joint Services Transcript, or Smart Transcript covering all periods of military service, **must be on file in the Records Office by the end of the first semester of attendance at this college.** Certification for benefits for the second semester will be withheld if transcripts are not received. Visit the Veterans Office for necessary forms.

Veterans Service Center

The Veterans Service Center (VSC) in M-101 is open all year. The mission of the VSC is to provide a welcoming environment for all veterans, dependents, and active duty members. The VSC is designed to serve both men and women, from military transition to the completion of their academic goals. The VSC provides services in three primary areas: academics, community and wellness.

Welcome Center

Location:	A-201
Telephone:	619-388-3998
Website	

The Welcome Center is open year-round for current and prospective students who need support navigating the enrollment and matriculation process. Assessment and Placement services are also available for students seeking guidance in ELAC and/or Math placement.

Current and prospective students have access to one-on-one drop-in support from staff and peer mentors.

Services

The Center aims to provide a supportive onboarding experience for students as they start and continue their educational journey.

- Admissions Application
- Financial Aid and Dream Act Application
- Promise Application
- Assistance with enrollment process
- Assessment/Placement

- mySDCCD, CANVAS
- Referrals to support services and resources available on campus
- Follow-up services
- Access to peer mentors
- Monthly workshops

Work Experience Program

Location: BT-215

Telephone: 619-388-3488

The Work Experience Program awards college credit for learning experiences that take place on a job or internship. The goals and assignments for completion of work experience courses are formulated with the student's workplace supervisor under the direction of the course instructor. More information on Work Experience courses is available in the Programs of Instruction section of the catalog under courses

numbered 270. Course enrollment is limited and may not be available to all students.

To learn more about Work Experience or to apply for enrollment in a Work Experience course, visit room BT-215, or call 619-388-3488.

Degree Curricula and Certificate Programs Panel

ACCOUNTING - ASSOCIATE OF SCIENCE DEGREE

Summary

The Accounting associate degree prepares students for entrance into the accounting field. The degree provides students with basic accounting skills necessary to be successful in the industry. This degree is intended for students majoring in accounting, and students looking to update their accounting skill set.

Note:

For a current list of articulated courses to CSU or UC business major visit www.assist.org. Additional general education and graduation requirements for the associate degree are listed in the Academic Requirements section of the catalog. Students interested in careers as professional accountants should select the Business Studies San Diego State University Transfer Option. The associate degree requires a minimum of 60 units.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Develop and apply appropriate communication skills across various business settings.
2. Leverage technology to manage and use information for decision making.
3. Analyze business scenarios to formulate and implement plans of action.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 11.0

ACCT 116A	Financial Accounting	4.0
ACCT 116B	Managerial Accounting	4.0
BUSE 119	Business Communications	3.0

Complete a minimum of seven (7) units from the following:

Units: 7.0

ACCT 102	Basic Accounting	3.0
ACCT 119	Accounting Ethics	3.0
ACCT 120	Federal Income Tax	3.0
ACCT 121	California Income Tax	1.0
ACCT 125	Government & Not-for-Profit Accounting	3.0
ACCT 128A	Recordkeeping	1.5
ACCT 128B	Payroll	1.5
ACCT 135	Principles of Auditing	3.0
ACCT 150	Computer Accounting Applications	3.0
BUSE 101	Business Mathematics	3.0
BUSE 120	Personal Financial Management	3.0
CBTE 143	Intermediate Microsoft Excel	3.0

Total: 18.0

ADVANCED AIR CONDITIONING AND DIRECT DIGITAL CONTROL - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

Advanced Air Conditioning and Direct Digital Control focuses on precise, automated control of air conditioning and lighting systems with the goal of providing optimum comfort at minimal operational cost.

Learning Outcome(s):

1. Trace power and control voltages in the diagnosis of HVACR equipment.
2. Utilize knowledge of the Refrigeration Cycle to charge a typical AC system.
3. Articulate the effects of deficient or excessive sub-cooling, superheat, air flow or water flow through an HVACR system.
4. Correctly diagnose and repair HVACR equipment using a minimum of replacement parts.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 33.0

AIRE 100	Basic Refrigeration & AC Theory	4.0
AIRE 103	Basic Refrigeration & AC Lab	2.0
AIRE 128	Comfort Heating Systems Theory	4.0
AIRE 129	Comfort Heating Systems Lab	2.0
AIRE 124	Power & Control Systems Theory	3.0
AIRE 125	Power & Control Systems Lab	2.0
AIRE 126	Fluid Flow Dynamics	3.0
AIRE 127	Fluid Flow Dynamics Lab	2.0
AIRE 138	HVAC System Design	3.0
AIRE 139	HVAC System Design Lab	2.0
AIRE 144	Direct Digital Controls Theory	4.0
AIRE 145	Direct Digital Controls Lab	2.0

Total: 33.0

ADVANCED ARTS ENTREPRENEURSHIP - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Certificate of Performance in Fine Art with an advanced arts entrepreneurship emphasis provides students with the skills and knowledge to foster self-employment or a small business. The curriculum is designed to maximize students art experience while preparing students with the understanding of entrepreneurship and small business management with business courses. This program expands student education in entrepreneurship and small business management. The primary aim is to prepare students to create advanced artwork and pursue a career in art-related fields.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Interpret, evaluate and critiques orally and in writing visual works of art.
2. Produce visual works of art in a variety of mediums. Choose the most appropriate materials, tools and techniques to meet artist goals.
3. Produce visual works of art reflecting global awareness, cultural diversity.
4. Demonstrate knowledge of specific historical and cultural art styles.
5. Solve basic problems of visual expression and describe its historical or contemporary context.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 9.0

ARTF 206	Art Entrepreneurship	3.0
BUSE 157	Developing a Plan for the Small Business	3.0
MARK 100	Principles of Marketing	3.0

Select three (3) units from the following:

Units: 3.0

ARTF 165B	Composition in Painting II	3.0
ARTF 165C	Composition in Painting III	3.0
ARTF 170B	Contemporary Crafts II	3.0
ARTF 175B	Sculpture II	3.0
ARTF 175C	Sculpture III	3.0
ARTF 195B	Ceramics II	3.0
ARTF 195C	Ceramics III	3.0
ARTF 207A	Industrial and Architectural Ceramic Design I	3.0
ARTF 207B	Industrial and Architectural Ceramic Design II	3.0
ARTF 212	Sustainable Art and Design	3.0

Total: 12.0

ADVANCED ELECTROMECHANICAL TECHNOLOGY - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Electromechanical Engineering Technology course of study provides a comprehensive learning environment of both electronic and mechanical principles. Learning emphasis is placed upon the hands-on application and design of electromechanical systems that include analog & digital electronics, engineering design, and computer controlled mechanical systems.

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

Note: This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Demonstrate proficiency in at least one threedimensional engineering design software.
2. Identify standard electronic components including resistors, capacitors, inductors, diodes, bipolar transistors, field effect transistors, and integrated circuits.
3. Demonstrate the proper use of basic electronics test instrumentation including an oscilloscope, a digital volt-ohm meter, a signal generator and a dual power supply.

Requirements

COURSES REQUIRED FOR THE MAJOR:		Units: 12.0
ELDT 143	Semiconductor Devices	3.0
ELDT 143L	Semiconductor Devices Laboratory	1.5
ELDT 224	Microprocessor Design	3.0
ELDT 224L	Microprocessor Design Laboratory	1.5
ENGE 152	Engineering Design	3.0

Total: 12.0

ADVANCED HVAC/R MECHANICAL SYSTEMS INSTALLATION AND REPAIR - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Advanced HVAC/R Mechanical Systems Installation and Repair provides students with competencies fundamental for preparing for employment or advanced training in heating, ventilation, air-conditioning (HVAC/R) and appliance installation, maintenance, and repair. The pathway includes preparation for a Class C California License and various industry-recognized certifications pertaining to the HVAC/R industry.

Learning Outcome(s):

1. Trace power and control voltages in the diagnosis of HVACR equipment.
2. Utilize knowledge of the Refrigeration Cycle to charge a typical AC system.
3. Articulate the effects of deficient or excessive sub-cooling, superheat, air flow or water flow through an HVACR system.
4. Correctly diagnose and repair HVACR equipment using a minimum of replacement parts.

Requirements

COURSES REQUIRED FOR THE MAJOR:		Units: 24.0
AIRE 60	Construction Safety and Health	2.0
AIRE 94	HVAC/R Certification Training	3.0
AIRE 100	Basic Refrigeration & AC Theory	4.0
AIRE 103	Basic Refrigeration & AC Lab	2.0
AIRE 124	Power & Control Systems Theory	3.0
AIRE 125	Power & Control Systems Lab	2.0
AIRE 132	Advanced Refrigeration & AC Theory	3.0
AIRE 133	Advanced Refrigeration & AC Lab	2.0
EGEE 50	Building Science Principles	3.0

Total: 24.0

ADVANCED MANUFACTURING - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Certificate of Performance in Advanced Manufacturing furthers student's knowledge with the innovative experience and exposure to modern manufacturing practices.

Note: It is recommended that MFET 150 and MFET 210 be completed before taking MFET 230. *A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Describe different types of materials, process flows, equipment and techniques used in manufacturing.
2. Demonstrate proficiency in programming and operation of NC/CNC equipment.
3. Identify and apply quality control tools and instruments used in a manufacturing environment.
4. Explain product design to optimize manufacturing efficiency.
5. Identify and utilize CAD/CAM applications in various manufacturing processes.
6. MFET Option 2: Fabrication Manufacturing Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to:
7. Describe different types of materials, process flows, equipment and techniques used to manufacture electronics products.
8. Explain and apply the fundamentals of electronics applications and theory.
9. Identify and apply quality control tools used in electronics manufacturing industry.
10. Demonstrate the knowledge of design tools used in electronics industry for product development.
11. Utilize, operate and measure the results of various test equipment to support product development.
12. MFET Option 1: Electronics Manufacturing Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to:

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 11.0

MFET 110	Industrial Safety	2.0
MFET 150	Manufacturing Automation	3.0
MFET 210	Statistical Process Control	3.0
MFET 230	Lean Manufacturing	3.0

It is recommended that MFET 150 and MFET 210 be completed before taking MFET 230.

Total: 11.0

ADVANCED MECHANICAL DESIGN - CERTIFICATE OF PERFORMANCE: CITY

Summary

Mechanical Design Technology graduates pursue careers in industry in the areas of industrial machinery, consumer products, construction, automotive, power transmission, automation, and other mechanical machinery related fields. Related areas of employment include sales, manufacturing and testing mechanical products. Graduates create designs as well as analyze and specify the components and systems of machinery and products.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses

must be completed within the San Diego Community College District.
This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Use a three-dimensional software to develop a mechanical design.
2. Generate MasterCAM programs at a basic level for both the Computer Numerical Control (CNC) Mill and CNC Lathe.
3. Demonstrate knowledge of print reading and symbology.

Requirements

COURSES REQUIRED FOR THE MAJOR: **Units:** 10.0

MFET 115	Properties of Materials	3.0
MACT 160M	Introduction to CAD/CAM	4.0
ENGE 152	Engineering Design	3.0

Total: 10.0

AGRICULTURE PLANT SCIENCE - ASSOCIATE IN SCIENCE FOR TRANSFER DEGREE: CITY

Summary

The Associate in Science in Agriculture Plant Science for Transfer Degree is intended for students who plan to complete a bachelor’s degree in Agriculture Plant Science or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. Students who complete this degree and transfer to a participating CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor’s degree. It may not be appropriate preparation for students transferring to a CSU campus that does not accept the degree. Students who plan to complete this degree should consult a counselor for additional information about participating CSU campuses as well as university admission, degree and transfer requirements. NOTE: Students intending to transfer into this major at a CSU should consult with a counselor and visit www.assist.org for guidance on appropriate transfer coursework.

Award Notes:

The following is required for all AA-T or AS-T degrees:

- Completion of 60 semester units that are eligible for transfer to the California State University
- Completion of a minimum of 18 semester units in an “AA-T” or “AS-T” major.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Minimum grade of “C” or “P” or better for each course in the major. Students should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.

Learning Outcome(s):

1. Demonstrate basic propagation techniques.
2. Identify plant disease and pests and incorporate integrated pest management and other organic strategies for a resilient food system.
3. Create a crop plan that is appropriate for the southwest region.
4. Evaluate the soil food web.
5. Design an organic urban farm that supports natural ecosystems, human health, and water conservation.
6. Understand and explain the components of a food system.
7. Understand and explain the three facets of sustainability (economic, environmental and social) both in general and as they apply specifically to landscaping, practices.

Requirements

COURSES REQUIRED FOR THE MAJOR: **Units:** 20.0

AGRI 125	Introduction to Soil Science	3.0
AGRI 114	Plant Propagation	3.0
AGRI 107	Introduction to Agricultural Plant Science	4.0
CHEM 100	Fundamentals of Chemistry	3.0
CHEM 100L	Fundamentals of Chemistry Laboratory	1.0
ECON 121	Principles of Microeconomics	3.0
MATH 119	Elementary Statistics	3.0

Total: 20.0

AIR CONDITIONING, HEATING, AND ADVANCED REFRIGERATION - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Air Conditioning, Heating and Advanced Refrigeration certificate focuses on advanced, complex, high efficiency HVACR systems and their components.

Learning Outcome(s):

1. Trace power and control voltages in the diagnosis of HVACR equipment.
2. Utilize knowledge of the Refrigeration Cycle to charge a typical AC system.
3. Articulate the effects of deficient or excessive sub-cooling, superheat, air flow or water flow through an HVACR system.
4. Correctly diagnose and repair HVACR equipment using a minimum of replacement parts.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 31.0

AIRE 100	Basic Refrigeration & AC Theory	4.0
AIRE 103	Basic Refrigeration & AC Lab	2.0
AIRE 128	Comfort Heating Systems Theory	4.0
AIRE 129	Comfort Heating Systems Lab	2.0
AIRE 122	Construction Drawings and Estimating	3.0
AIRE 123	Construction Drawings and Estimating Lab	1.0
AIRE 124	Power & Control Systems Theory	3.0
AIRE 125	Power & Control Systems Lab	2.0
AIRE 126	Fluid Flow Dynamics	3.0
AIRE 127	Fluid Flow Dynamics Lab	2.0
AIRE 132	Advanced Refrigeration & AC Theory	3.0
AIRE 133	Advanced Refrigeration & AC Lab	2.0

Total: 31.0

AIR CONDITIONING, REFRIGERATION, AND ENVIRONMENTAL CONTROL TECHNOLOGY - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The Air Conditioning, Refrigeration and Environmental Control Technology AS degree focuses on the study of complex, high efficiency HVACR, advanced controls and alternative energy systems.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Trace power and control voltages in the diagnosis of HVACR equipment.
2. Utilize knowledge of the Refrigeration Cycle to charge a typical AC system.

3. Articulate the effects of deficient or excessive sub-cooling, superheat, air flow or water flow through an HVACR system.
4. Correctly diagnose and repair HVACR equipment using a minimum of replacement parts.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 36.0

AIRE 100	Basic Refrigeration & AC Theory	4.0
AIRE 103	Basic Refrigeration & AC Lab	2.0
AIRE 128	Comfort Heating Systems Theory	4.0
AIRE 129	Comfort Heating Systems Lab	2.0
AIRE 122	Construction Drawings and Estimating	3.0
AIRE 123	Construction Drawings and Estimating Lab	1.0
AIRE 124	Power & Control Systems Theory	3.0
AIRE 125	Power & Control Systems Lab	2.0
AIRE 126	Fluid Flow Dynamics	3.0
AIRE 127	Fluid Flow Dynamics Lab	2.0
AIRE 132	Advanced Refrigeration & AC Theory	3.0
AIRE 133	Advanced Refrigeration & AC Lab	2.0
AIRE 138	HVAC System Design	3.0
AIRE 139	HVAC System Design Lab	2.0

Total: 36.0

ALCOHOL AND OTHER DRUG STUDIES - ASSOCIATE OF SCIENCE DEGREE

Summary

The Associate of Science in Alcohol and Other Drug Studies prepares students for certification as alcohol and other drug counselors in the State of California (units may qualify for other state certification or licensing requirements). The Associate of Science degree provides academic preparation for baccalaureate study in addiction, psychology, social work, human services, and related disciplines. Students must complete all required courses within ten years in order to receive the Associate Degree.

Note:

The AODS department recommends students take courses in the order as presented.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Practice in an internship the eight addiction counselor practice dimensions: clinical evaluation; treatment planning; referral; service coordination; counseling; client, family, community education; documentation; professional and ethical responsibilities.
2. Demonstrate an understanding of the laws, regulations, and ethical codes of the substance use disorder treatment profession.
3. Explain the potential for medical and mental health conditions to coexist with substance use disorder.
4. Identify the behavioral, psychological, physical health, and social effects of psychoactive substances on the person and their significant others.
5. Identify diagnostic criteria, apply assessment skills, and describe scientifically validated models of substance use disorder treatment.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 40.0-41.0

The AODS department recommends students take courses in the order listed below:

AODS 150	Introduction to Chemical Dependency	3.0
AODS 153	Chemical Dependency Family Counseling Techniques	3.0
AODS 154	Law, Ethics, and Skills in Alcohol and Other Drug Counseling	3.0
SOCO 101	Principles of Sociology	3.0
PSYC 101	General Psychology	3.0
AODS 155	Culturally Informed Practices	3.0
AODS 156	Case Management in Alcohol and Other Drug Counseling	3.0
AODS 157	Pharmacology of Psychoactive Drugs	3.0
AODS 159	Co-Occurring Disorders in Alcohol and Other Drug Counseling	3.0
AODS 160	Group Dynamics in Alcohol and Other Drug Counseling	3.0
PSYC 161	Introduction to Counseling	3.0
AODS 162	Internship Seminar: Alcohol and Other Drug Counseling	3.0
<i>Select one of the following courses</i>		4.0-5.0
AODS 164	Internship: Alcohol and Other Drug Counseling	5.0
OR		
AODS 270	Work Experience in Chemical Dependency	4.0

¹AODS 270 must be substituted for AODS 164 if student has a paid internship.

Total: 40.0-41.0

ALCOHOL AND OTHER DRUG STUDIES - CERTIFICATE OF ACHIEVEMENT

Summary

The Certificate of Achievement in Alcohol and Other Drug Studies prepares students for certification as alcohol and other drug counselors in the State of California (units may qualify for other state certification or licensing requirements). The Certificate of Achievement is designed to prepare students for entry level alcohol and other drug counselor employment. Students must complete all required courses within ten years in order to receive the Certificate of Achievement.

Note:

The AODS department recommends students take courses in the order as presented.

Learning Outcome(s):

1. Practice in an internship the eight addiction counselor practice dimensions: clinical evaluation; treatment planning; referral; service coordination; counseling; client, family, community education; documentation; professional and ethical responsibilities.
2. Demonstrate an understanding of the laws, regulations, and ethical codes of the substance use disorder treatment profession.
3. Explain the potential for medical and mental health conditions to coexist with substance use disorder.
4. Identify the behavioral, psychological, physical health, and social effects of psychoactive substances on the person and their significant others.
5. Identify diagnostic criteria, apply assessment skills, and describe scientifically validated models of substance use disorder treatment.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 40.0-41.0

The AODS department recommends students take courses in the order listed below:

AODS 150	Introduction to Chemical Dependency	3.0
AODS 153	Chemical Dependency Family Counseling Techniques	3.0
AODS 154	Law, Ethics, and Skills in Alcohol and Other Drug Counseling	3.0
SOCO 101	Principles of Sociology	3.0
PSYC 101	General Psychology	3.0
AODS 155	Culturally Informed Practices	3.0
AODS 156	Case Management in Alcohol and Other Drug Counseling	3.0
AODS 157	Pharmacology of Psychoactive Drugs	3.0
AODS 159	Co-Occurring Disorders in Alcohol and Other Drug Counseling	3.0
AODS 160	Group Dynamics in Alcohol and Other Drug Counseling	3.0
PSYC 161	Introduction to Counseling	3.0
AODS 162	Internship Seminar: Alcohol and Other Drug Counseling	3.0
<i>Select one of the following courses</i>		4.0-5.0
AODS 164	Internship: Alcohol and Other Drug Counseling	5.0
OR		
AODS 270	Work Experience in Chemical Dependency	4.0

¹AODS 270 must be substituted for AODS 164 if student has a paid internship.

Total: 40.0-41.0

ALLIED HEALTH TRACK - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

Consult the Nursing Education faculty (City College) or a counselor to verify current course requirements for associate degree and baccalaureate nursing program preparation.

Note: The associate degree requires a minimum of 60 units.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Student satisfying prerequisites of nursing programs and other allied health fields will also be able to:
Demonstrate a detailed mastery of human body structure and function, from micro- to macroscopic levels, including its homeostatic states and processes.
2. Demonstrate a working knowledge of microbial systems, their role in Nature and their impact on humans.
3. Describe the relationship between the processes of science, human culture and the environment.
4. Evaluate the quality of scientific methodology when it is reported by the popular media.
5. Apply core biological concepts that service as the foundation for higher-level science courses. These include theories of evolution, natural selection, processes of scientific inquiry, and proper laboratory techniques, among others.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 21.0

BIOL 107	General Biology-Lecture and Laboratory	4.0
BIOL 205	General Microbiology	5.0
BIOL 230	Human Anatomy	4.0
BIOL 235	Human Physiology	4.0
CHEM 100	Fundamentals of Chemistry	3.0
CHEM 100L	Fundamentals of Chemistry Laboratory	1.0

AMAZON WEB SERVICES (AWS) CLOUD TECHNICIAN I - CERTIFICATE OF PERFORMANCE: CITY

Summary

Amazon Web Services (AWS) is a comprehensive, evolving cloud computing platform provided by Amazon. It provides a mix of infrastructure as a service (IaaS), platform as a service (PaaS) and packaged software as a service (SaaS) offerings. Students explore AWS Cloud best practices and design patterns to help architect optimal IT solutions on AWS. Students also examine case studies that show how AWS customers have designed their infrastructures and the strategies and services they implemented. Utilizing strategies examined, students build and explore a variety of infrastructures through a guided, hands-on activity. Upon successful completion of each course, students get access to vouchers for a free practice exam and discounted exam voucher for the AWS Certified Solutions Architect – Associate and AWS Certified Cloud Practitioner exam.

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. Note:**

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Apply security principles and practices to maintain operations in the presence of risks and threats.
2. Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
3. Recognize professional responsibilities and make informed judgments in computing practice, taking into account legal, ethical, diversity, equity, inclusion, and accessibility principles consistent with the mission of the institution.
4. Communicate effectively in a variety of professional contexts.
5. Design, implement, and evaluate a computing based solution to meet a given set of computing requirements in the context of the program's discipline.
6. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

Requirements**COURSES REQUIRED FOR THE MAJOR:****Units: 6.0**

INWT 102	Information Technology (IT) Fundamentals	1.5
INWT 185	AWS Cloud Foundations (CF)	1.5
INWT 186	AWS Academy Cloud Architecting	3.0

Total: 6.0

AMERICAN SIGN LANGUAGE - ASSOCIATE OF ARTS DEGREE: CITY

Summary

The associate degree in American Sign Language requires completion of the courses listed below. Additional general education and graduation requirements for the associate degree are listed in the catalog. The associate degree requires a minimum of 60 units.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Develop receptive and expressive skills in American Sign Language and Fingerspelling.
2. Develop knowledge and awareness of the differences between the Deaf Culture/deaf community and the hearing community.
3. Accurately translate English sentences into ASL.
4. Understand the differences between Deaf and hearing cultures.
5. Develop an appreciation of Deaf culture's values, beliefs, and cultural practices.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 20.0

AMSL 120	American Sign Language Level I	5.0
AMSL 121	American Sign Language Level II	5.0
AMSL 220	American Sign Language Level III	5.0
AMSL 221	American Sign Language Level IV	5.0

SELECT TWO COURSES FROM THE FOLLOWING:

Units: 6.0

AMSL 150	Introduction to Deaf Culture	3.0
AMSL 155	Implications of Deafness	3.0
AMSL 214	American Sign Language Fingerspelled Signs	3.0
AMSL 225	Introduction to Linguistics of American Sign Language	3.0

Total: 26.0

AMERICAN SIGN LANGUAGE - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The certificate focuses on beginning to advanced American Sign Language (ASL) skill development. Students interested in transferring to a four-year institution, may continue with completing the associate degree.

Learning Outcome(s):

1. Develop an appreciation of Deaf culture's values, beliefs, and cultural practices.
2. Understand the differences between Deaf and hearing cultures.
3. Accurately translate English sentences into ASL.
4. Develop knowledge and awareness of the differences between the Deaf Culture/deaf community and the hearing community.
5. Develop receptive and expressive skills in American Sign Language and Fingerspelling.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 20.0

AMSL 120	American Sign Language Level I	5.0
AMSL 121	American Sign Language Level II	5.0
AMSL 220	American Sign Language Level III	5.0
AMSL 221	American Sign Language Level IV	5.0

Total: 20.0

ANTHROPOLOGY - ASSOCIATE IN ARTS FOR TRANSFER DEGREE: CITY

Summary

Program Description:

Anthropology is a scientific discipline that studies humans and human behavior. The subject is divided into five broad fields: biological anthropology, cultural anthropology, linguistics, archaeology, and applied anthropology. Biological anthropology is concerned with hominin evolution and the biological features of human populations. Cultural anthropology deals with cross-cultural studies of learned behavior, such as language, kinship, religion, economics, technology, values, and personality. Linguistics is the study of the origin and evolution of languages and how they reflect the behavioral patterns of people. Archaeology is involved in the recovery of material remains of past peoples with the objective of reconstructing the past. Applied Anthropology applies what we have learned from the other four fields to promote change. As both a biological and social science, anthropology seeks to understand and describe humankind.

Award Description:

The Associate in Arts in Anthropology for Transfer Degree is intended for students who plan to complete a bachelor's degree in Anthropology or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. Students who complete this degree and transfer to a participating CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor's degree. It may not be appropriate preparation for students transferring to a CSU campus that does not accept the degree. Students who plan to complete this degree should consult a counselor for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

Award Notes: The following is required for all AA-T or AS-T degrees:

- Completion of 60 CSU-transferable semester units. No more than 60 units are required.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major (see list below). All courses in the major must be completed with a grade of "C" or "P" or better.
- Certified completion of the California State University General Education-Breadth pattern; OR the Intersegmental General Education Transfer Curriculum pattern.

Award Notes:

The following is required for all AA-T or AS-T degrees:

- Completion of 60 semester units that are eligible for transfer to the California State University
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Minimum grade of "C" or "P" or better for each course in the major. Students should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.

Learning Outcome(s):

1. Identify and critically evaluate Anthropology's contributions to other disciplines of study in the Social Sciences, Behavioral Sciences, and the Humanities.
2. Identify, critically evaluate, and discuss the contributions Anthropology has made to describing and understanding the human condition including human biological and cultural diversity.
3. Identify, describe, and discuss different cultural systems ranging from band societies to the state.
4. Discuss and critically evaluate the Anthropological Perspective including its global emphasis and cross-cultural and comparative approach to understanding the various ways in which people organize themselves, meet their various needs, and have adapted to their environments.
5. Identify, discuss, compare, contrast, and critically analyze the various theoretical orientations used in the different subfields of Anthropology.
6. Identify and discuss Anthropological methods of inquiry.

7. Define Anthropology, identify and discuss its various subfields including: Cultural Anthropology, Biological Anthropology, Comparative Linguistics, Archaeology, and Applied Anthropology.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 16.0

ANTH 102	Introduction to Biological Anthropology	3.0
ANTH 103	Introduction to Cultural Anthropology	3.0
ANTH 104	Laboratory in Biological Anthropology	1.0
ANTH 107	Introduction to Archaeology	3.0
ENGL 202	Introduction to Linguistics	3.0
		3.0
GISG 104	Geographic Information Science and Spatial Reasoning	3.0
OR		
SOCO 220	Introduction to Research Methods in Sociology	3.0

Select one course from the following (3-4 units):

Units: 3.0-4.0

ANTH 110	Anthropology of Magic, Witchcraft, and Religion	3.0
ANTH 115	Introduction to Archaeological Field Work	4.0
ANTH 120	Archaeological Artifact Analysis	3.0
ANTH 130	Bones: Human Osteology	3.0
ANTH 140	Primatology	3.0
ANTH 210	Introduction to the Indigenous People of California	3.0

Total: 19.0-20.0

ANTHROPOLOGY - ASSOCIATE OF ARTS DEGREE: CITY

Summary

The Anthropology program has three primary goals. The first is to provide the student with a broad perspective of human biological and cultural origins and change which prepares the student for transfer to a four-year institution for further study. The second goal is to provide courses that may include additional information regarding anthropology that are of general interest to community college students or are applications of anthropological principles. The Anthropology program offers a limited course curriculum in archaeology. A certificate of performance is available for the student who has an interest in the recovery, identification, and analysis of prehistoric and early historic artifacts related to archaeological research projects.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Students who complete the program will be able to identify and critically evaluate Anthropology's contributions to other disciplines of study in the Social Sciences, Behavioral Sciences, and the Humanities.
2. Students who complete the program will be able to identify, critically evaluate, and discuss the contributions Anthropology has made to describing and understanding the human condition including human biological and cultural diversity.
3. Students who complete the program will be able to identify, describe, and discuss different cultural systems ranging from band societies to the state.
4. Students who complete the program will be able to discuss and critically evaluate the Anthropological Perspective including its global emphasis and cross-cultural and comparative approach to understanding the various ways in which people organize themselves, meet their various needs, and have adapted to their environments.
5. Students who complete the program will be able to identify, discuss, compare, contrast, and critically analyze the various theoretical orientations used in the different subfields of Anthropology.

6. Students who complete the program will be able to identify and discuss Anthropological methods of inquiry.
7. Students who complete the program will be able to define Anthropology, identify and discuss its various subfields including: Cultural Anthropology, Biological Anthropology, Comparative Linguistics, Archaeology, and Applied Anthropology.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 9.0

ANTH 102	Introduction to Biological Anthropology	3.0
ANTH 103	Introduction to Cultural Anthropology	3.0
ANTH 107	Introduction to Archaeology	3.0

Select 9-10 units from the following

Units: 9.0-10.0

The Anthropology Program recommends that students interested in pursuing Physical Anthropology take ANTH 104.

ANTH 104	Laboratory in Biological Anthropology	1.0
ANTH 110	Anthropology of Magic, Witchcraft, and Religion	3.0
ANTH 115	Introduction to Archaeological Field Work	4.0
ANTH 120	Archaeological Artifact Analysis	3.0
ANTH 130	Bones: Human Osteology	3.0
ANTH 140	Primatology	3.0
ANTH 210	Introduction to the Indigenous People of California	3.0

Total: 18.0-19.0

APPLIED MATHEMATICS - ASSOCIATE OF ARTS DEGREE

Summary

The Mathematics program offers students an associate degree option designed to prepare them for working in STEM related fields and/or to transfer to four-year institutions. The Associate of Arts Degree in Applied Mathematics requires completion of the courses listed below. Additional general education and graduation requirements for the associate degree are listed in the catalog. The associate degree requires a minimum of 60 units.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Students will know about on-campus resources that will promote success in their math classes. This outcome expands into the transfer level coursework.
2. Students who complete this program will be able to apply technology to enhance mathematical thinking and understanding and to solve mathematical problems.
3. Students who complete this program will be able to solve routine mathematical problems using proper mathematical notation, in multiple ways if applicable.
4. Students who complete this program will be able to apply mathematical skills to solve and accurately describe their process for real-world problems relevant to their major.
5. Students who complete this program will be able to analyze, model, and clearly and effectively communicate a solution to a math problem.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 23.0

MATH 107	Introduction to Scientific Programming	3.0
MATH 107L	Introduction to Scientific Programming Lab	1.0
MATH 150	Calculus with Analytic Geometry I	5.0
MATH 151	Calculus with Analytic Geometry II	4.0
MATH 245	Discrete Mathematics	3.0
MATH 252	Calculus with Analytic Geometry III	4.0
MATH 254	Introduction to Linear Algebra	3.0

Total: 23.0

ARCHAEOLOGY - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The certificate recognizes the student's completion of a series of courses that prepare the student for entry-level participation in field archaeological projects and work in an archaeological lab. This program is designed to prepare students for entry-level employment in archaeological field work, laboratory work or museum work.

Learning Outcome(s):

1. Students who complete the program will be able to identify and critically evaluate Anthropology's contributions to other disciplines of study in the Social Sciences, Behavioral Sciences, and the Humanities.
2. Students who complete the program will be able to identify, critically evaluate, and discuss the contributions Anthropology has made to describing and understanding the human condition including human biological and cultural diversity.
3. Students who complete the program will be able to identify, describe, and discuss different cultural systems ranging from band societies to the state.
4. Students who complete the program will be able to discuss and critically evaluate the Anthropological Perspective including its global emphasis and cross-cultural and comparative approach to understanding the various ways in which people organize themselves, meet their various needs, and have adapted to their environments.
5. Students who complete the program will be able to identify, discuss, compare, contrast, and critically analyze the various theoretical orientations used in the different subfields of Anthropology.
6. Students who complete the program will be able to identify and discuss Anthropological methods of inquiry.
7. Students who complete the program will be able to define Anthropology, identify and discuss its various subfields including: Cultural Anthropology, Biological Anthropology, Comparative Linguistics, Archaeology, and Applied Anthropology.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 16.0

ANTH 103	Introduction to Cultural Anthropology	3.0
ANTH 107	Introduction to Archaeology	3.0
ANTH 115	Introduction to Archaeological Field Work	4.0
ANTH 120	Archaeological Artifact Analysis	3.0
ANTH 210	Introduction to the Indigenous People of California	3.0

Total: 16.0

ART HISTORY - ASSOCIATE IN ARTS FOR TRANSFER DEGREE: CITY

Summary

Program Description

The Fine Art major at San Diego City College is one of six options in the Visual and Performing Arts division. The program provides the opportunity for students to develop fundamental skills in art studio and art history for transferring to a four-year institution. The program inspires creative and technological innovation while preparing students for advanced artwork and pursuing entrepreneurial careers in art. Students learn to think critically, collaborate, research, and express artistic ideas in state-of-the-art facilities. The on-campus City Gallery engages students with contemporary art while broadening their cultural, social, economic, and political perspectives.

Award Description

The Associate in Arts in Art History for Transfer is intended for students who plan to complete a bachelor's degree in Art History or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. Students who complete this degree and transfer to a participating CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor's degree. It may not be appropriate preparation for students transferring to a CSU campus that does not accept the degree. Students who plan to complete this degree should consult a counselor for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

It is recommended for students intending to transfer to San Diego State University (SDSU) BA in Art History should complete the courses marked with a (#). Students intending to transfer into this major at other CSU's should consult a counselor and visit www.assist.org for guidance on appropriate course work.

Award Notes:

- Completion of 60 CSU-transferable semester units. No more than 60 units are required.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major. All courses in the major must be completed with a grade of "C" or "P" or better.
- Certified completion of the California State University General Education-Breadth pattern (CSU GE); OR the Intersegmental General Education Transfer Curriculum pattern (IGETC)

Award Notes:

The following is required for all AA-T or AS-T degrees:

- Completion of 60 semester units that are eligible for transfer to the California State University
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Minimum grade of "C" or "P" or better for each course in the major. Students should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.

Learning Outcome(s):

1. Interpret, evaluate and critique orally and in writing visual works of art.
2. Produce visual works of art in a variety of mediums. Choose the most appropriate materials, tools and techniques to meet artist goals.
3. Produce visual works of art reflecting global awareness, cultural diversity.
4. Demonstrate knowledge of specific historical and cultural art styles.
5. Solve basic problems of visual expression and describe its historical or contemporary context.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 9.0

Required Courses (nine semester units):

ARTF 110	Art History: Prehistoric to Gothic	3.0
ARTF 111	Art History: Renaissance to Modern	3.0
ARTF 155A	Freehand Drawing I	3.0

Select one course (three semester units) from the following: **Units: 3.0**

It is recommended that students select courses that meet lower division major preparation requirements for their transfer university.

ARTF 115	African Art	3.0
ARTF 125	Art History: Arts of the Asian Continent	3.0

Select one course (three semester units) if not selected above from the following: **Units: 3.0**

It is recommended that students select courses that meet lower division major preparation requirements for their transfer university.

ARTF 150A	Two-Dimensional Design	3.0
ARTF 151	Three-Dimensional Design	3.0
ARTF 165A	Composition in Painting I	3.0
ARTF 170A	Contemporary Crafts I	3.0
ARTF 175A	Sculpture I	3.0
ARTF 195A	Ceramics I	3.0
ARTF 210A	Life Drawing I	3.0

Select one course (three to five semester units) if not selected above from the following: **Units: 3.0-5.0**

It is recommended that students select courses that meet lower division major preparation requirements for their transfer university.

ARTF 109	Modern Art	3.0
ARTF 125	Art History: Arts of the Asian Continent	3.0
ARTF 150A	Two-Dimensional Design	3.0
ARTF 151	Three-Dimensional Design	3.0
ARTF 165A	Composition in Painting I	3.0
ARTF 170A	Contemporary Crafts I	3.0
ARTF 175A	Sculpture I	3.0
ARTF 195A	Ceramics I	3.0
ARTF 210A	Life Drawing I	3.0
FREN 101	First Course in French	5.0
FREN 102	Second Course in French	5.0
FREN 201	Third Course in French	5.0
FREN 202	Fourth Course in French	5.0
GERM 101	First Course in German	5.0
GERM 102	Second Course in German	5.0
GERM 201	Third Course in German	5.0
ITAL 101	First Course in Italian	5.0

ITAL 102	Second Course in Italian	5.0
ITAL 201	Third Course in Italian	5.0
SPAN 101	First Course in Spanish	5.0
SPAN 102	Second Course in Spanish	5.0
SPAN 201	Third Course in Spanish	5.0
SPAN 202	Fourth Course in Spanish	5.0
SPAN 215	Spanish for Spanish Speakers I	5.0
SPAN 216	Spanish for Spanish Speakers II	5.0

Total: 18.0-20.0

ARTS ENTREPRENEURSHIP - CERTIFICATE OF PERFORMANCE: CITY

Summary

The certificate of performance in Fine Art with an arts entrepreneurship emphasis provides students with the skills and knowledge to foster self-employment or a small business. The curriculum is designed to maximize students art experience while providing basic skills required for self-employment and employment in art-related fields. This program expands student education in entrepreneurship and small business management. The primary aim is to prepare students to create advanced artwork and pursue a career in art-related fields.

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

Note: This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Interpret, evaluate and critiques orally and in writing visual works of art.
2. Produce visual works of art in a variety of mediums. Choose the most appropriate materials, tools and techniques to meet artist goals.
3. Produce visual works of art reflecting global awareness, cultural diversity.
4. Demonstrate knowledge of specific historical and cultural art styles.
5. Solve basic problems of visual expression and describe its historical or contemporary context.

Requirements

COURSES REQUIRED FOR THE MAJOR:	Units: 3.0
ARTF 206 Art Entrepreneurship	3.0

Select three (3) units from the following:	Units: 3.0
ARTF 165B Composition in Painting II	3.0
ARTF 165C Composition in Painting III	3.0
ARTF 170B Contemporary Crafts II	3.0
ARTF 175B Sculpture II	3.0
ARTF 175C Sculpture III	3.0
ARTF 195B Ceramics II	3.0
ARTF 195C Ceramics III	3.0
ARTF 207A Industrial and Architectural Ceramic Design I	3.0
ARTF 207B Industrial and Architectural Ceramic Design II	3.0

ASSOCIATE OF SCIENCE DEGREE IN NURSING (GENERIC RN) - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The Associate of Science Degree in Nursing (ADN) curriculum prepares entry-level Registered Nurses (RN) as providers of care across the health/illness continuum and as members within the profession. The curriculum respects the individuality of the student and aims to provide a positive, innovative learning model that fosters the development of critical thinking and problem solving skills so that the Registered Nurse is equipped to deliver care to a culturally diverse population in a variety of healthcare settings. Registered Nurses collaborate with members of the health care team, are effective communicators, are politically aware, and demonstrate a commitment to lifelong learning. Upon successful completion of program requirements, graduates are eligible to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN). Admission to the program is by special application. Information packets are available online at: http://www.sdcity.edu/Portals/0/AcademicPrograms/ProgramsofInstruction/Nursing/2015/nursing_information_packet_9-11-2015.pdf. Additional information is available on the nursing website at: <http://www.sdcity.edu/AcademicPrograms/ProgramsofInstruction/NursingEducation.aspx>. Applications for the nursing program are also available on the Nursing website at: <http://www.sdcity.edu/Portals/0/AcademicPrograms/Nursing%20Education/sdcc%20RN%20application%205-29-2013.pdf>. Prospective students are responsible for obtaining these materials in order to acquaint themselves with the admission policies and procedures. The San Diego City College Nursing Education program is fully accredited by the California Board of Registered Nursing (BRN) and the Accreditation Commission for Education in Nursing (ACEN). Inquiries regarding accreditation may be made by contacting the BRN at 400 R Street, Suite 4030, Sacramento, CA 94244, (916) 322-3350 or ACEN at 3343 Peachtree Road NE, Suite 500, Atlanta, GA 30326 (404)975-5000

Note:

The Board of Registered Nursing (BRN) requires 6 units of Communication, verbal, written and group; satisfied by ENGL 101 and COMS 103; and 16 units of Natural, Behavioral and Social sciences; satisfied by the BIOL 205, 230 and 235 prerequisites, PSYC 101 & ANTH 103 or SOCO 101 or 110. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions. Students interested in transfer should meet with the nursing education counselor. *It is strongly recommended that all of the general education requirements be completed prior to admission to the nursing education program or during summer sessions.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Participate in life-long learning.
2. Use standards of nursing practice to perform and evaluate client care in entry-level practice.
3. Practice within the ethical, legal, and regulatory frameworks of the professional nursing practice.
4. Make clinical judgments and management decisions to ensure accurate and safe client care.
5. Apply concepts and skills to successfully pass the National Council Licensure Exam for Registered Nurses (NCLEX-RN)

Requirements

Program Prerequisites		Units: 13.0
BIOL 205	General Microbiology	5.0
BIOL 230	Human Anatomy	4.0
BIOL 235	Human Physiology	4.0
COURSES REQUIRED FOR THE MAJOR:		Units: 49.0
ENGL 101	Reading and Composition	3.0

PSYC 101	General Psychology	3.0
		3.0
COMS 103	Oral Communication	3.0
OR		
COMS 135	Interpersonal Communication	3.0
		3.0
ANTH 103	Introduction to Cultural Anthropology	3.0
OR		
SOCO 101	Principles of Sociology	3.0
OR		
SOCO 110	Contemporary Social Problems	3.0
NRSE 140	Foundations of Nursing	4.5
NRSE 141	Pharmacology for Nursing	1.0
NRSE 142	Medical Surgical Nursing I	4.5
NRSE 144	Medical Surgical Nursing II	4.5
NRSE 146	Maternal-Child Health Nursing	4.5
NRSE 240	Medical/Surgical Nursing III	4.5
NRSE 242	Mental Health & Gerontological Nursing	4.5
NRSE 244	Medical Surgical Nursing IV	4.5
NRSE 246	Leadership in Nursing	4.5

Additional Courses required for the associate degree: *Humanities

Total: 62.0

ASTRONOMY - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

Astronomy is the study of the universe. Various branches of astronomy include: cosmology, planetary, geology, space plasma physics, and image analysis, amongst others. Astronomy is focused on understanding the fundamental laws of the universe.

Note: The associate degree requires a minimum of 60 units.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Utilize critical thinking skills in a variety of scientific applications.
2. Examine the universe in a variety of courses.
3. Communicate an understanding of the connections between science and other human activities
4. Demonstrate an understanding and appreciation of the scientific method.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 32.0

Only one astronomy lab course (ASTR 109 OR ASTR 111) is required for the major.

ASTR 101	Descriptive Astronomy	3.0
		1.0

ASTR 109	Practice in Observing	1.0
OR		
ASTR 111	Astronomy Laboratory	1.0
MATH 150	Calculus with Analytic Geometry I	5.0
MATH 151	Calculus with Analytic Geometry II	4.0
MATH 252	Calculus with Analytic Geometry III	4.0
PHYS 195	Mechanics	5.0
PHYS 196	Electricity and Magnetism	5.0
PHYS 197	Waves, Optics and Modern Physics	5.0

Total: 32.0

AUDIO PRODUCTION TECHNOLOGY - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Audio Production Technology is designed to provide students with practical, career-oriented skills in professional audio production using current music industry technologies. The certificate emphasizes basic musical fundamentals, live sound reinforcement, microphone and recording techniques, mixing and mastering skills, MIDI (Musical Instrument Digital Interface) sequencing and programming, audio software and hardware development, audio post production for video and gaming, and audio for multimedia. In addition, students are introduced to, and guided through, self-promotion skills using multimedia and social networking tools specific to the music industry.

Note:

Upon successful completion of the Certificate of Achievement in Audio Production, students should be able to: Analyze the media's impact on the public; Operate audio software and hardware equipment; Compose original music; Record and produce all forms of audio in digital media content; Participate in the local and global music community; and Perform at or facilitate live events.

Learning Outcome(s):

1. Perform at or facilitate live events.
2. Participate in the local and global music community; and
3. Record and produce all forms of audio in digital media content;
4. Compose original music;
5. Operate audio software and hardware equipment;
6. Analyze the media's impact on the public;

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 18.0

MUSC 104	Composition Technology	3.0
MUSC 160	Introduction to Electro-Acoustic Music	3.0
MUSC 162	Introduction to Recording and Sound Reinforcement	3.0
MUSC 252	Sound Design and Digital Audio Post Production	3.0
MUSC 260	Electro-Acoustic Music Composition	3.0
MUSC 262	Intermediate Recording and Sound Reinforcement	3.0

Total: 18.0

BASIC HVAC/R MECHANICAL SYSTEMS INSTALLATION - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Basic HVAC/R Mechanical Systems Installation provides students with competencies fundamental for preparing for employment or advanced training in heating, ventilation, air-conditioning (HVAC/R) and appliance installation and maintenance. The pathway includes preparation for a Class C California License and various industry-recognized certifications pertaining to the HVAC/R industry.

Learning Outcome(s):

1. Trace power and control voltages in the diagnosis of HVACR equipment.
2. Utilize knowledge of the Refrigeration Cycle to charge a typical AC system
3. Articulate the effects of deficient or excessive sub-cooling, superheat, air flow or water flow through an HVACR system.
4. Correctly diagnose and repair HVACR equipment using a minimum of replacement parts.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 19.0

AIRE 60	Construction Safety and Health	2.0
AIRE 94	HVAC/R Certification Training	3.0
AIRE 100	Basic Refrigeration & AC Theory	4.0
AIRE 103	Basic Refrigeration & AC Lab	2.0
AIRE 124	Power & Control Systems Theory	3.0
AIRE 125	Power & Control Systems Lab	2.0
EGEE 50	Building Science Principles	3.0

Total: 19.0

BASIC REFRIGERATION AND CONTROL SYSTEMS* - CERTIFICATE OF PERFORMANCE: CITY

Summary

With a California and U.S. emphasis on energy efficiency and sustainability, there is a need for well trained mechanical technicians. This Certificate of performance prepares students with knowledge and skill in the installation, maintenance and repair of residential and light-commercial Heating - Ventilation - Air Conditioning & Refrigeration (HVACR) systems.

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

Note: This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Trace power and control voltages in the diagnosis of HVACR equipment.
2. Utilize knowledge of the Refrigeration Cycle to charge a typical AC system.
3. Articulate the effects of deficient or excessive sub-cooling, superheat, air flow or water flow through an HVACR system.
4. Correctly diagnose and repair HVACR equipment using a minimum of replacement parts.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 11.0

AIRE 100	Basic Refrigeration & AC Theory	4.0
AIRE 103	Basic Refrigeration & AC Lab	2.0
AIRE 124	Power & Control Systems Theory	3.0
AIRE 125	Power & Control Systems Lab	2.0

Students may have concurrent enrollment in AIRE 100, AIRE 103, AIRE 124 and AIRE 125.

Total: 11.0

Courses

AIRE 100 Basic Refrigeration & AC Theory

64-72 hours lecture; 4 units

Grading: Letter Grade Only

Corequisite: AIRE 103

This course is a study of elementary thermodynamics as applied to Heating, Ventilation, Air Conditioning and Refrigeration (HVACR) systems, including molecular theory of temperature, pressure and heat. Emphasis is placed on the vapor-compression refrigeration cycle, HVACR system components, their thermal performance and applications. Discussions include historical to modern systems, with emphasis placed on new energy-saving technologies and methods being employed in this dynamic industry. This course is intended for students interested in heating, refrigeration and air conditioning technology, and solar energy.

FT; AA/AS; CSU.

AIRE 103 Basic Refrigeration & AC Lab

2 hours lab; 2 units

Grading: Letter Grade Only

Corequisite: AIRE 100

This course is a hands-on, project-oriented study of the tools, materials, methods and equipment used in Heating, Ventilation, Air Conditioning and Refrigeration (HVACR). Emphasis is placed on projects related to heat transfer and the refrigeration cycle, system evacuation, charging, and refrigerant recovery and leak testing as they apply to normal HVACR industry activities. This course is intended for students interested in heating, refrigeration and air conditioning technology, and solar energy.

FT; AA/AS; CSU.

AIRE 124 Power & Control Systems Theory

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Corequisite: AIRE 125

Advisory: Completion of or concurrent enrollment in: AIRE 100 with a Grade of "C" or better, or equivalent

This course is a study of electrical power and control systems for Heating, Ventilation, Air Conditioning and Refrigeration (HVACR). Subjects include Ohm's Law and Kirchoff's Law for direct current (DC) and alternating current (AC) circuits, series and parallel power and control circuits, electrical schematic and wiring diagrams, and motor theory. Emphasis is placed on the operational theory and application of components commonly encountered in modern HVACR systems, electrical controls, and circuits for compressors, pumps and fans. This course is intended for students interested in heating, refrigeration and air conditioning technology, and solar energy.

FT; AA/AS; CSU.

AIRE 125 Power & Control Systems Lab

2 hours lab; 2 units

Grading: Letter Grade Only

Corequisite: AIRE 124

Advisory: Completion of or concurrent enrollment in: AIRE 100 with a Grade of "C" or better, or equivalent and AIRE 103 with a Grade of "C" or better, or equivalent

This course utilizes a series of laboratory projects that provide hands-on student training with test and measuring tools, benchtop trainers and actual heating, ventilation, air conditioning and refrigeration (HVACR) systems. Projects include the use of digital-volt-ohm-meters (DVOM), in-circuit and clamp-on ammeters, meggers, and other modern tools in analyzing HVACR power and control circuits. Logical troubleshooting and diagnosis methods are demonstrated and utilized with computer simulation software and in laboratory projects. This course is intended for students interested in heating, refrigeration and air conditioning technology, and solar energy.

FT; AA/AS; CSU.

BIOLOGY - ASSOCIATE IN SCIENCE FOR TRANSFER DEGREE: CITY

Summary

Program Description

Biology is a natural science that focuses on physical and chemical processes of living organisms. This discipline explores how organisms acquire and use energy to maintain homeostasis, how they reproduce, and how they interact with each other and their environment. Scientific processes are emphasized as a means of answering these biological questions. Biologists rely heavily on a chemistry foundation since living organisms are chemical systems.

Award Description

The Associate in Science in Biology for Transfer Degree is intended for students who plan to complete a bachelor's degree in Biology or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. Students who complete this degree and transfer to a participating CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor's degree. It may not be appropriate preparation for students transferring to a CSU campus that does not accept the degree. Students who plan to complete this degree should consult a counselor for additional information about participating CSU campuses as well as university admission, degree, and transfer requirements.

Note: Students intending to transfer into this major at a CSU should consult with a counselor and visit www.assist.org for guidance on appropriate transfer coursework.

Award Notes:

- Completion of 60 CSU-transferable semester units. No more than 60 units are required.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major. All courses in the major must be completed with a grade of "C" or "P" or better.
- Certified completion of the California State University General Education-Breadth pattern (CSU GE); OR the Intersegmental General Education Transfer Curriculum pattern (IGETC)

Award Notes:

The following is required for all AA-T or AS-T degrees:

- Completion of 60 semester units that are eligible for transfer to the California State University
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.

- Minimum grade of "C" or "P" or better for each course in the major. Students should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.

Learning Outcome(s):

1. Demonstrate a working knowledge of microbial systems, their role in Nature and their impact on humans.
2. Demonstrate a detailed mastery of human body structure and function, from micro- to macroscopic levels, including its homeostatic states and processes.
3. Describe the relationship between the processes of science, human culture and the environment.
4. Evaluate the quality of scientific methodology when it is reported by the popular media.
5. Apply core biological concepts that service as the foundation for higher-level science courses. These include theories of evolution, natural selection, processes of scientific inquiry, and proper laboratory techniques, among others.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 31.0-33.0

BIOL 210A	Introduction to the Biological Sciences I	4.0
BIOL 210B	Introduction to the Biological Sciences II	4.0
CHEM 200	General Chemistry I - Lecture	3.0
CHEM 200L	General Chemistry I - Laboratory	2.0
CHEM 201	General Chemistry II - Lecture	3.0
CHEM 201L	General Chemistry II - Laboratory	2.0
		3.0-5.0
MATH 121	Basic Techniques of Applied Calculus I	3.0
OR		
MATH 150	Calculus with Analytic Geometry I	5.0
		10.0
		10.0
PHYS 125	General Physics	5.0
AND		
PHYS 126	General Physics II	5.0
OR		
		10.0
PHYS 180A	General Physics I	4.0
AND		
PHYS 181A	General Physics Laboratory I	1.0
AND		
PHYS 180B	General Physics II	4.0
AND		
PHYS 181B	General Physics Laboratory II	1.0
OR		
		10.0
PHYS 195	Mechanics	5.0
AND		
PHYS 196	Electricity and Magnetism	5.0

Select 3-5 units from the following:

Units: 3.0-5.0

3.0-5.0
5.0

CHEM 231	Organic Chemistry I - Lecture	3.0
AND		
CHEM 231L	Organic Chemistry I - Laboratory	2.0
OR		
MATH 122	Basic Techniques of Calculus II	3.0
OR		
MATH 151	Calculus with Analytic Geometry II	4.0

Total: 34.0-38.0

BLACK AND WHITE PHOTOGRAPHY - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Black and White Photography Certificate of Performance prepares students for entry-level employment or self-employment as a fine art photographer or photographer's assistant. Emphasis is placed on grounding students in the fundamentals of traditional analog black and white photography, including camera handling and composition, darkroom film and print processing techniques, archival print finishing, and aesthetic and conceptual thinking, culminating in a polished fine art black and white portfolio that can be used to obtain employment as a fine art photography assistant, and/or freelance fine art photographer. Students develop a comprehensive portfolio to showcase the technical and creative aspects of their work.

Note:

Faculty recommend students complete classes in the order presented.

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. This program is not eligible for federal financial aid in accordance with Federal regulations.**

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Upon successful completion students will be able to produce professional portfolios suitable for sharing with potential clients or gradschool entrance.
2. Upon successful completion students will be able to produce professional quality, colorcorrected photographs utilizing archival pigment and chromogenic materials.
3. Upon successful completion students will be able to create a marketing plan and business materials such as letterhead and business cards.
4. Upon successful completion students will be able to apply theories and principles of photographic light and lighting control for both film and digital capture.
5. Upon successful completion students will be able to illustrate abilities in various professional presentation techniques utilizing archival mounting and matting materials.
6. Upon successful completion students will be able to demonstrate an understanding of the history of photography and the role of photographs in today's society.
7. Upon successful completion students will be able to utilize Adobe Lightroom and Photoshop in digital color correction and image manipulation.
8. Upon successful completion students will be able to develop black and white film and make gelatin silver prints in a traditional darkroom.
9. Upon successful completion students will be able to utilize compositional elements in the creation of original photographs in various formats.
10. Upon successful completion students will be able to demonstrate competent use of reciprocal exposures utilizing shutter speeds and apertures.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 13.0

Faculty recommend students complete classes in the order presented.

PHOT 100	Introduction to Black & White Photography	3.0
PHOT 102A	Directed Darkroom Studies I	1.0
PHOT 135	Intermediate Black & White Photography	3.0
PHOT 235	Advanced Black and White Photography	3.0
PHOT 259A	Photographic Portfolio I	3.0

Total: 13.0

BLACK STUDIES - ASSOCIATE OF ARTS DEGREE: CITY

Summary

The Black Studies program at City College provides an interdisciplinary and systemic approach to the historical and contemporary study of African people in Africa and in the Americas. The program is designed to provide enrichment in the social sciences and humanities by giving students in these areas the opportunity to link the tools of formal analysis to a specific cultural area in the African experience. The student's career and future alternatives may be increased by adding a specialized dimension at the undergraduate level. Students preparing for transfer to a four-year university may major in African Studies or humanities, law, social work, or public administration. This will enhance their opportunities in local, national and international organizations, both public and private, through participation in the program.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Upon successful completion the student will acquire the skills and knowledge for preparation in evaluating the role of active citizens who will be engaged in the global community.
2. Upon successful completion the student will acquire the skills and knowledge for preparation in critically analyzing current social policies and their historical origins, both on the local and national levels, aimed at addressing current social problems that most affect African-Americans.
3. Upon successful completion the student will acquire the skills and knowledge for preparation in analyzing the underlying causes of such social problems as racism and sexism and class conflict.
4. Upon successful completion the student will acquire the skills and knowledge for preparation in evaluating the aesthetics, social, and political significance of Black artistic, musical and literary expression from its African origins to the present.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 21.0

BLAS 100	Introduction to Black Studies	3.0
BLAS 104	Black Psychology	3.0
OR		
BLAS 130	The Black Family	3.0
		3.0
BLAS 110	African American Art	3.0
OR		
BLAS 120	Black Music	3.0

		3.0
BLAS 115	Sociology from a Black Perspective	3.0
OR		
BLAS 116	Contemporary Social Problems from a Black Perspective	3.0
OR		
BLAS 135	Introduction to Black Politics	3.0
		3.0
BLAS 140A	African American History to Reconstruction	3.0
OR		
BLAS 140B	African American History since Reconstruction to the Present	3.0
		3.0
BLAS 145A	Introduction to African History	3.0
OR		
BLAS 145B	Introduction to African History	3.0
		3.0
BLAS 150	Black Women in Literature, Film and the Media	3.0
OR		
BLAS 155	African American Literature	3.0

Total: 21.0

BOOKKEEPING FOR A SMALL BUSINESS - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Accounting program at San Diego City College offers certificates of performance, certificates of achievement, and associate degree awards in the field of accounting and financial management. Areas of emphasis include tax and certified public accounting (CPA) preparation, financial management, and fundamentals in accounting. Awards are designed to prepare students with an educational framework for effective leadership in an accounting position. Coursework offered by the program equips students for transfer to a four-year institution, while providing foundational skills to obtain entry-level positions, enhance existing job competencies, and prepare for the Certified Public Accountant (CPA) and Certified Management Accountant (CMA) license.

Note: This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Accurately complete an accounting cycle preparing journal entries; posting to the general ledger; and preparing a worksheet, financial statement, adjusting and closing entries and post closing trial balance.
2. Accurately complete an accounting cycle using a computerized accounting program.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 6.0

ACCT 102	Basic Accounting	3.0
ACCT 150	Computer Accounting Applications	3.0

Total: 6.0

BUSINESS ADMINISTRATION 2.0 - ASSOCIATE IN SCIENCE FOR TRANSFER DEGREE: CITY

Summary

This section is no longer updated in CurricUNET.

Award Notes:

The following is required for all AA-T or AS-T degrees:

- Completion of 60 semester units that are eligible for transfer to the California State University
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Minimum grade of "C" or "P" or better for each course in the major. Students should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.

Learning Outcome(s):

1. Students who complete the program will be able to leverage technology to manage and use information for decision making.
2. Students who complete the program will be able to analyze business scenarios to formulate and implement plans of action.
3. Students who complete the program will be able to develop and apply appropriate communication skills across various business settings.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 20.0

BUSE 119	Business Communications	3.0
BUSE 140	Business Law and the Legal Environment	3.0
ACCT 116A	Financial Accounting	4.0
ACCT 116B	Managerial Accounting	4.0
ECON 120	Principles of Macroeconomics	3.0
ECON 121	Principles of Microeconomics	3.0

SELECT ONE OF THE FOLLOWING STATISTICS COURSES:

Units: 3.0

BUSE 115	Statistics for Business	3.0
MATH 119	Elementary Statistics	3.0

SELECT ONE OF THE FOLLOWING CALCULUS COURSES:

Units: 3.0-5.0

MATH 121	Basic Techniques of Applied Calculus I	3.0
MATH 150	Calculus with Analytic Geometry I	5.0

Total: 26.0-28.0

BUSINESS OPERATIONS-CANNABIS DISPENSARY - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Certificate of Performance in Business Operations-Cannabis Dispensary is designed for students interested in the fundamental practices of managing a cannabis dispensary. Emphasis is placed on the specific operational skills needed for this industry, including management, legal compliance, accounting, and security

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. Note:**

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Students who complete the program will be able to leverage technology to manage and use information for decision making.
2. Students who complete the program will be able to analyze business scenarios to formulate and implement plans of action.
3. Students who complete the program will be able to develop and apply appropriate communication skills across various business settings.

Requirements**COURSES REQUIRED FOR THE MAJOR:****Units: 11.0**

ACCT 128A	Recordkeeping	1.5
ACCT 128B	Payroll	1.5
BUSE 145	Business of Cannabis	2.0
BUSE 150	Human Relations in Business	3.0
BUSE 155	Small Business Management	3.0

Total: 11.0

C++ - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The goal of the Certificate of Achievement in C++ is to prepare students for entry-level employment in the field of Information Technology. The emphasis of the Certificate of Achievement in C++ is designed to provide students with training in the theory and practice of computer programming emphasizing business and computer applications using C++. Students receive hands-on experience in the fundamentals of structured- and object-oriented analysis, design, and implementation using the computer programming language C++.

Note: Students who successfully complete the Certificate of Achievement in C++ will be able to:

- Effectively design and implement programming constructs, including functions, control structures, arrays/lists, classes, and objects for a given programming problem; and
- Effectively implement the appropriate data structures using the principles and techniques of object-oriented programming for a given programming problem.

The Computer Information Systems Department requires students to complete all course requirements for the certificate within five years.

Learning Outcome(s):

1. Upon successful program completion, our graduates will apply security principles and practices to maintain operations in the presence of risks and threats.
2. Upon successful program completion, our graduates will function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
3. Upon successful program completion, our graduates will recognize professional responsibilities and make informed judgments in computing practice, taking into account legal, ethical, diversity, equity, inclusion, and accessibility principles consistent with the mission of the institution.
4. Upon successful program completion, our graduates will communicate effectively in a variety of professional contexts.
5. Upon successful program completion, our graduates will design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.

6. Upon successful program completion, our graduates will analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 16.0

The Computer Information Systems Department requires students to complete all course requirements for the certificate within five years.

CISC 187	Data Structures in C++	4.0
CISC 192	C/C++ Programming	4.0
CISC 201	Advanced C++ Programming	4.0
CISC 205	Object Oriented Programming using C++	4.0

Total: 16.0

CERTIFIED PUBLIC ACCOUNTANT PREPARATORY PROGRAM - CERTIFICATE OF PERFORMANCE

Summary

There is an increasing demand for qualified individuals in the niche government and nonprofit accounting sector. The Certificate of Performance in Certified Public Accounting Preparatory Program provides an in-depth exploration of government and nonprofit accounting, ethics, and auditing. Students learn about government and nonprofit specific accounting practices as well as auditing techniques used in the accounting field. Emphasis is placed on careers in the accounting field and preparation for students interested in earning the California Certified Public Accountant License.

Notes

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Implement government and nonprofit specific accounting practices as well as auditing techniques used in accounting.
2. Apply accounting guidelines, practices, and regulatory procedures in accordance with Generally Accepted Accounting Principles (GAAP).
3. Demonstrate the use of accounting concepts in decision-making, planning, directing operations, and controlling.
4. Examine ethical decisions while recognizing multiple perspectives in business situations.
5. Evaluate business transactions and summarize for internal and external financial reporting.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 3.0

ACCT 119	Accounting Ethics	3.0
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Complete one course from the following:

Units: 3.0-4.0

ACCT 125	Government & Not-for-Profit Accounting	3.0
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ACCT 135	Principles of Auditing	3.0
ACCT 220	Uniform CPA Examination Review Course	4.0

Total: 6.0-7.0

CHEMISTRY - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The Associate of Science Degree in Chemistry certifies that the student has emphasized the theory and practice of chemistry and has met the preparation for the major in chemistry.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Upon successful completion students will be able to demonstrate proficiency in a number of techniques and analyses employed in the chemistry laboratory.
2. Upon successful completion students will be able to demonstrate and understanding of how chemistry is the study of matter and its changes.
3. Upon successful completion students will be able to demonstrate an awareness of the ways in which different aspects of nature (e.g., our local human body, etc.) can be known through and are connected by chemistry.
4. Upon successful completion students will be able to demonstrate an understanding safe handling of chemicals and a respect for chemicals, their properties, and their effect on the environment.

Requirements

COURSES REQUIRED FOR THE MAJOR: Units: 34.0

CHEM 200	General Chemistry I - Lecture	3.0
CHEM 200L	General Chemistry I - Laboratory	2.0
CHEM 201	General Chemistry II - Lecture	3.0
CHEM 201L	General Chemistry II - Laboratory	2.0
CHEM 231	Organic Chemistry I - Lecture	3.0
CHEM 231L	Organic Chemistry I - Laboratory	2.0
MATH 150	Calculus with Analytic Geometry I	5.0
MATH 151	Calculus with Analytic Geometry II	4.0
PHYS 195	Mechanics	5.0
PHYS 196	Electricity and Magnetism	5.0

Complete a minimum of 5 units from the following: Units: 5.0

CHEM 233	Organic Chemistry II - Lecture	3.0
CHEM 233L	Organic Chemistry II - Laboratory	2.0
CHEM 251	Quantitative Analytical Chemistry	5.0
MATH 252	Calculus with Analytic Geometry III	4.0

Total: 39.0

CHICANA AND CHICANO STUDIES - ASSOCIATE OF ARTS DEGREE: CITY

Summary

The Associate of Arts in Chicana and Chicano Studies provides a foundational coursework that emphasizes an understanding of history, culture, identity, literature, the arts, institutions, and ideas in addition to preparing students with the critical thinking and analytical skills required in the real world. Chicana and Chicano Studies

prepares students to engage important questions, political issues, and institutions as scholars, activists, and civic participants, while also equipping them to transfer to the baccalaureate level.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Upon active engagement in course activities and processes the successful student will be able to express in a written, oral or artistic way some of the contributions that women have made to the development of the Mexican and Mexican-American experience.
2. Upon active engagement in course activities and processes the successful student will be able to express in a written, oral or artistic way some of the major obstacles that the Indigenous cultures of Mexico have faced since having contact with European cultures.
3. Upon active engagement in course activities and processes the successful student will be able to express in a written, oral or artistic way the significance of the Chicana/o and Mexican experience.
4. Upon active engagement in course activities and processes the successful student will be able to attend and analyze educational, cultural, or political activities related to the Chicano/a Latino/a community's social issues.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 12.0

CHIC 110A	Introduction to Chicana and Chicano Studies	3.0
CHIC 141A	United States History from a Chicano Perspective	3.0
CHIC 141B	United States History from a Chicano Perspective	3.0
CHIC 170	La Chicana	3.0

SELECT SIX UNITS FROM THE FOLLOWING COURSES:

Units: 6.0

CHIC 110B	Introduction to Chicana and Chicano Studies	3.0
CHIC 130	Mexican Literature in Translation	3.0
CHIC 135	Chicana/o Literature	3.0
CHIC 138	Literature of La Raza in Latin America in Translation	3.0
CHIC 140	Chicana/o Sociology	3.0
CHIC 150	History of Mexico	3.0
CHIC 190	Chicano Images in Film	3.0
CHIC 201	The Indigenous Tradition of Mexico and Ancient Mesoamerica	3.0
CHIC 210	Chicano Culture	3.0
CHIC 230	Chicano Art	3.0
CHIC 250	Introduction to Chicana/o Dramatic Art	3.0

Total: 18.0

CHILD DEVELOPMENT: ASSOCIATE TEACHER - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Child Development: Associate Teacher prepares students to provide developmentally appropriate curriculum and environments in early care and education programs and to supervise Assistant Teachers. Students are introduced to early education philosophies and strategies that support their understanding and application of developmentally appropriate practices for working with young children and their families in a diverse society. Emphasis is placed on the understanding of growth and development, social emotional needs, positive guidance techniques, intentional design of curriculum, and healthy and safe environments. Hands on practical experiences in the campus child development center provides opportunities for students to apply their learning with the support and supervision of child development faculty and staff. The Certificate of Achievement in Child Development: Associate Teacher partially fulfills the State of California matrix requirements for the Associate Teacher permit. For more information on permit requirements and application, visit www.childdevelopment.org.

Learning Outcome(s):

1. Students who complete the program will be able to model ethical practices with children, families, colleagues and communities as stated in the NAEYC Code of Ethical Conduct.
2. Students who complete the program will be able to plan and demonstrate curriculum based on developmentally appropriate practices.
3. Students who complete the program will be able to examine practices that respect and support inclusion.
4. Students who complete the program will be able to interpret the processes of child growth and development.

Requirements**COURSES REQUIRED FOR THE MAJOR:****Units: 12.0**

CHIL 100	Principles and Practices of Early Childhood Education	3.0
CHIL 101	Human Growth and Development	3.0
CHIL 141	The Child, Family and Community	3.0
CHIL 180	Nutrition, Health and Safety for Children	3.0

Complete three (3) units from the following:**Units: 3.0**

CHIL 133	Curriculum: Language, Literacy, and Art	3.0
CHIL 135	Curriculum: Science, Math, and Music and Movement	3.0

Complete a minimum of two (2) units from the following:**Units: 2.0**

CHIL 160	Observation and Assessment of Children	2.0
CHIL 270	Work Experience	1.0-4.0
CHIL 291A	Child Development Center Practicum	1.0
CHIL 291B	Child Development Center Practicum	1.0
CHIL 291C	Child Development Center Practicum	1.0
CHIL 291D	Child Development Center Practicum	1.0

Total: 17.0

CHILD DEVELOPMENT: MASTER TEACHER - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Child Development: Master Teacher prepares students to provide service in the care, development, and instruction of children in a child care and development program, and to supervise Teachers, Associate Teachers, and Assistant. Students who complete the Certificate of Achievement in Child Development: Master Teacher will be prepared to serve as a coordinator of curriculum and staff development in a child care and development program. Students are introduced to early education philosophies and strategies that support their understanding and application of developmentally appropriate practices for working with young children and their families in a diverse society. Emphasis is placed on the understanding of growth and development, social emotional needs, positive guidance techniques, and intentional design of curriculum experiences and healthy and safe environments. Hands on practical experiences in the campus child development center provides opportunities for students to apply their learning with the support and supervision of child development faculty and staff. The Certificate of Achievement in Child Development: Master Teacher partially fulfills the State of California matrix requirements for the Master Teacher permit. For more information on permit requirements and application, visit www.childdevelopment.org.

Learning Outcome(s):

1. Students who complete the program will be able to model ethical practices with children, families, colleagues and communities as stated in the NAEYC Code of Ethical Conduct.
2. Students who complete the program will be able to plan and demonstrate curriculum based on developmentally appropriate practices.
3. Students who complete the program will be able to examine practices that respect and support inclusion.

4. Students who complete the program will be able to interpret the processes of child growth and development.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 22.0-24.0

CHIL 100	Principles and Practices of Early Childhood Education	3.0
CHIL 101	Human Growth and Development	3.0
CHIL 133	Curriculum: Language, Literacy, and Art	3.0
CHIL 135	Curriculum: Science, Math, and Music and Movement	3.0
CHIL 141	The Child, Family and Community	3.0
CHIL 180	Nutrition, Health and Safety for Children	3.0
CHIL 215	Adult Supervision and Mentoring in Early Childhood Settings	3.0
CHIL 275	Supervised Field Study	1.0-3.0

Family Life

Units: 0.0

CHIL 160	Observation and Assessment of Children	2.0
CHIL 161	Observations and Issues in Child Development	2.0
CHIL 188	Violence in the Lives of Children and Families	3.0

Universal Design for Education

Units: 0.0

CHIL 160	Observation and Assessment of Children	2.0
CHIL 166	Curriculum for Diverse Learners	3.0
CHIL 280	Environmental Rating Scale	1.0

Infant/Toddler

Units: 0.0

CHIL 175	Infant-Toddler Growth and Development	3.0
CHIL 176	Principles of Infant-Toddler Caregiving	3.0

School Age

Units: 0.0

		3.0
EDUC 200	Teaching as a Profession	2.0
AND		
EDUC 203	Field Experience for Prospective Teachers	1.0
MUSI 110	Music for Elementary School Teachers	3.0
MATH 210A	Concepts of Elementary School Mathematics I	3.0
MATH 210B	Concepts of Elementary School Mathematics II	3.0
MATH 212	Children's Mathematical Thinking	1.0
EXSC 240	Physical Education in the Elementary Schools	3.0

Total: 22.0-24.0

CHILD DEVELOPMENT: TEACHER - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Child Development: Teacher Certificate of Achievement prepares students to plan and implement developmentally appropriate curriculum for early childhood education programs and to supervise Assistant and Associate Teachers in the classroom.

Learning Outcome(s):

1. Students who complete the program will be able to model ethical practices with children, families, colleagues and communities as stated in the NAEYC Code of Ethical Conduct.
2. Students who complete the program will be able to plan and demonstrate curriculum based on developmentally appropriate practices.
3. Students who complete the program will be able to examine practices that respect and support inclusion.
4. Students who complete the program will be able to interpret the processes of child growth and development.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 24.0

CHIL 100	Principles and Practices of Early Childhood Education	3.0
CHIL 101	Human Growth and Development	3.0
CHIL 133	Curriculum: Language, Literacy, and Art	3.0
CHIL 135	Curriculum: Science, Math, and Music and Movement	3.0
CHIL 141	The Child, Family and Community	3.0
CHIL 166	Curriculum for Diverse Learners	3.0
CHIL 175	Infant-Toddler Growth and Development	3.0
CHIL 180	Nutrition, Health and Safety for Children	3.0

Select one (1) course from the following:

Units: 2.0-3.0

CHIL 160	Observation and Assessment of Children	2.0
CHIL 161	Observations and Issues in Child Development	2.0
CHIL 162	Positive Child Guidance	3.0

Total: 26.0-27.0

COMMERCIAL PHOTOGRAPHY - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Commercial Photography Certificate of Performance prepares students for entry-level employment and/or self-employment in commercial photography. Emphasis is placed on grounding students in the fundamentals of digital photography, retouching, studio lighting techniques, and portraiture, culminating in a polished commercial portfolio that can be used to obtain employment as a commercial photography assistant, and/or freelance commercial photographer.

Note:

Faculty recommend students complete classes in the order presented. *A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Upon successful completion students will be able to produce professional portfolios suitable for sharing with potential clients or gradschool entrance.
2. Upon successful completion students will be able to produce professional quality, color corrected photographs utilizing archival pigment and chromogenic materials.
3. Upon successful completion students will be able to create a marketing plan and business materials such as letterhead and business cards.

4. Upon successful completion students will be able to apply theories and principles of photographic light and lighting control for both film and digital capture.
5. Upon successful completion students will be able to illustrate abilities in various professional presentation techniques utilizing archival mounting and matting materials.
6. Upon successful completion students will be able to demonstrate an understanding of the history of photography and the role of photographs in today's society.
7. Upon successful completion students will be able to utilize Adobe Lightroom and Photoshop in digital color correction and image manipulation.
8. Upon successful completion students will be able to develop black and white film and make gelatin silver prints in a traditional darkroom.
9. Upon successful completion students will be able to utilize compositional elements in the creation of original photographs in various formats.
10. Upon successful completion students will be able to demonstrate competent use of reciprocal exposures utilizing shutter speeds and apertures.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 12.0

PHOT 143	Introduction to Digital Photography	3.0
PHOT 201A	Photographic Lighting Techniques I	3.0
PHOT 220	Portraiture	3.0
PHOT 259A	Photographic Portfolio I	3.0

Total: 12.0

COMMUNICATION STUDIES - ASSOCIATE OF ARTS DEGREE: CITY

Summary

The Communication Studies program is committed to providing students with the theoretical and practical tools required for effective communication in fulfilling human needs and enhancing relationships in face-to-face, virtual, and cultural environments. Emphasis is placed on proficiency in public speaking, interpersonal communication, intercultural communication, voice and articulation, small group communication, and argumentation. The Communication Studies program provides students the opportunity to gain effective communication skills which are essential and highly demanded in educational, professional, and social settings. Through critical thinking, observation, and performance, students recognize the importance of messages in an interconnected multicultural community. The Associate Degree or Certificate of Performance in Communication Studies offer students enhancement of self-development and foundational tools for relational success.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Upon successful completion of the Communication Studies program the student will should be able to research, organize, and present a developed viewpoint.
2. Upon successful completion of the Communication Studies program the student will should be able to develop effective verbal and presentational skills for a variety of communication situations.
3. Upon successful completion of the Communication Studies program the student will should be able to design effective communication in order to facilitate understanding and cooperation.
4. Upon successful completion of the Communication Studies program the student will should be able to analyze the audience's backgrounds, motives and attitudes.
5. Upon successful completion of the Communication Studies program the student will should be able to evaluate the speaker's backgrounds, motives and attitudes.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 3.0

COMS 103	Oral Communication	3.0
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Select 15 units from the following courses:

Units: 15.0

COMS 101	Voice and Articulation	3.0
COMS 104	Advanced Public Communication	3.0
COMS 135	Interpersonal Communication	3.0
COMS 160	Argumentation and Critical Thinking	3.0
COMS 170	Small Group Communication	3.0
COMS 180	Intercultural Communication	3.0

Total: 18.0

COMMUNICATION STUDIES - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Communication Studies programs provide students the opportunity to gain effective communication skills which are essential and highly demanded in educational, professional and social settings. Through critical thinking, observation, and performance, students recognize the importance of messages in an interconnected multicultural community. The Associate in Arts, Certificate of Achievement or Certificate of Performance in Communication Studies offer students enhancement of self-development and foundational tools for relational success.

Award Note:

This program is not eligible for federal financial aid in accordance with Federal regulations.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 15.0

COMS 103	Oral Communication	3.0
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Select 12 Units from

Units:

COMS 101	Voice and Articulation	3.0
COMS 104	Advanced Public Communication	3.0
COMS 111	Oral Interpretation	3.0
COMS 135	Interpersonal Communication	3.0
COMS 160	Argumentation and Critical Thinking	3.0
COMS 170	Small Group Communication	3.0
COMS 180	Intercultural Communication	3.0

Total: 15.0

COMMUNICATION STUDIES - CERTIFICATE OF PERFORMANCE: CITY

Summary

This award is for students who have demonstrated a competence in Communication Studies by taking classes to enhance their communication skills. These skills will benefit them in a variety of fields related to Communication Studies (advertising, public relations, community service, counseling, education, human resources, journalism, management, marketing, performing arts, politics, and radio/ television/film) as well as degrees and careers outside of Communication Studies where critical thinking, research, performance, and presentation are essential elements.

***A Certificate of Performance is a departmental award that does not appear on the student’s transcript. All courses must be completed within the San Diego Community College District. Note:**

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student’s transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Upon successful completion of the Communication Studies program the student will should be able to research, organize, and present a developed viewpoint.
2. Upon successful completion of the Communication Studies program the student will should be able to develop effective verbal and presentational skills for a variety of communication situations.
3. Upon successful completion of the Communication Studies program the student will should be able to design effective communication in order to facilitate understanding and cooperation.
4. Upon successful completion of the Communication Studies program the student will should be able to analyze the audience’s backgrounds, motives and attitudes.
5. Upon successful completion of the Communication Studies program the student will should be able to evaluate the speaker’s backgrounds, motives and attitudes.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 9.0

Students should complete 9 units from the following:

COMS 101	Voice and Articulation	3.0
COMS 103	Oral Communication	3.0
COMS 104	Advanced Public Communication	3.0
COMS 111	Oral Interpretation	3.0
COMS 135	Interpersonal Communication	3.0
COMS 160	Argumentation and Critical Thinking	3.0
COMS 170	Small Group Communication	3.0
COMS 180	Intercultural Communication	3.0

Total: 9.0

COMMUNICATION STUDIES 2.0 - ASSOCIATE IN ARTS FOR TRANSFER DEGREE: CITY

Summary

The Communication Studies program is committed to providing students with the theoretical and practical tools required for effective communication in fulfilling human needs and enhancing relationships in face-to-face, virtual, and diverse cultural environments. Emphasis is placed on proficiency in public speaking, interpersonal communication, intercultural communication, voice and articulation, small group communication, and argumentation. The Communication Studies program provides students the opportunity to gain effective communication skills which are essential and highly demanded in educational, professional and social settings. Through critical thinking, observation, and performance, students recognize the importance of messages in an

interconnected multicultural community. The Associate in Arts or Certificate of Performance in Communication Studies offer students enhancement of self-development and foundational tools for relational success.

Award Notes:

The following is required for all AA-T or AS-T degrees:

- Completion of 60 semester units that are eligible for transfer to the California State University
- Completion of a minimum of 18 semester units in an “AA-T” or “AS-T” major.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Minimum grade of “C” or “P” or better for each course in the major. Students should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.

Learning Outcome(s):

1. Upon successful completion of the Communication Studies program the student should be able to desearch, organize, and present a developed viewpoint.
2. Upon successful completion of the Communication Studies program the student should be able to develop effective verbal and presentational skills for a variety of communication situations.
3. Upon successful completion of the Communication Studies program the student should be able to design effective communication in order to facilitate understanding and cooperation.
4. Upon successful completion of the Communication Studies program the student should be able to analyze the audience’s backgrounds, motives and attitudes.
5. Upon successful completion of the Communication Studies program the student should be able to evaluate the speaker’s backgrounds, motives and attitudes.

Requirements

COURSES REQUIRED FOR THE MAJOR: Units: 6.0

COMS 103	Oral Communication	3.0
COMS 135	Interpersonal Communication	3.0

Select three courses (9 units) from the following: Units: 9.0

COMS 104	Advanced Public Communication	3.0
COMS 160	Argumentation and Critical Thinking	3.0
COMS 170	Small Group Communication	3.0
COMS 180	Intercultural Communication	3.0
COMS 201	Communication and Community	3.0

Select one course (3 units) not selected above from the following: Units: 3.0

COMS 104	Advanced Public Communication	3.0
COMS 111	Oral Interpretation	3.0
COMS 160	Argumentation and Critical Thinking	3.0
COMS 170	Small Group Communication	3.0
COMS 180	Intercultural Communication	3.0
COMS 201	Communication and Community	3.0

Total: 18.0

COMMUNICATION STUDIES: BUSINESS - CERTIFICATE OF PERFORMANCE: CITY

Summary

This award is for students who have demonstrated a competence in Communication Studies by taking classes to enhance their communication skills, specifically in the area of business. These skills will benefit them in a variety of fields related to Communication Studies (advertising, public relations, community service, marketing, performing arts, politics, and radio/television/film) as well as degrees and careers outside of Communication Studies because communication is an essential element to any business.

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. Note:**

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Upon successful completion of the Communication Studies program the student should be able to research, organize, and present a developed viewpoint.
2. Upon successful completion of the Communication Studies program the student should be able to develop effective verbal and presentational skills for a variety of communication situations.
3. Upon successful completion of the Communication Studies program the student should be able to design effective communication in order to facilitate understanding and cooperation.
4. Upon successful completion of the Communication Studies program the student should be able to analyze the audience's backgrounds, motives and attitudes.
5. Upon successful completion of the Communication Studies program the student should be able to evaluate the speaker's backgrounds, motives and attitudes.

Requirements

COURSES REQUIRED FOR THE MAJOR:		Units: 3.0
BUSE 119	Business Communications	3.0
Select six (6) units from the following:		Units: 6.0
COMS 103	Oral Communication	3.0
COMS 170	Small Group Communication	3.0
COMS 180	Intercultural Communication	3.0

Total: 9.0

COMMUNICATION STUDIES: HEALTH COMMUNICATION - CERTIFICATE OF PERFORMANCE: CITY

Summary

This award is for students who have demonstrated a competence in Communication Studies by taking classes to enhance their communication skills, specifically in the area of health communication. These skills will benefit them in a variety of fields related to Communication Studies (advertising, public relations, community service, counseling, education, human resources, journalism, management, marketing, performing arts, politics, and radio/television/film) and Health Communication (careers involving health-related and care-related messages, the goals and strategies of health care promotion, doctor-patient communication, health communication campaigns, communication in health risk and crisis, and other topics in various contexts, and the communication surrounding wellness, illness, and health care in personal and professional relationships).

***A Certificate of Performance is a departmental award that does not appear on the student’s transcript. All courses must be completed within the San Diego Community College District. Note:**

This program is not eligible for federal financial aid in accordance with Federal regulations

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student’s transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Upon successful completion of the Communication Studies program the student should be able to research, organize, and present a developed viewpoint.
2. Upon successful completion of the Communication Studies program the student should be able to develop effective verbal and presentational skills for a variety of communication situations.
3. Upon successful completion of the Communication Studies program the student should be able to design effective communication in order to facilitate understanding and cooperation.
4. Upon successful completion of the Communication Studies program the student should be able to analyze the audience’s backgrounds, motives and attitudes.
5. Upon successful completion of the Communication Studies program the student should be able to evaluate the speaker’s backgrounds, motives and attitudes.

Requirements

COURSES REQUIRED FOR THE MAJOR:		Units: 3.0
HEAL 101	Health and Lifestyle	3.0
Select six (6) units from the following:		Units: 6.0
COMS 103	Oral Communication	3.0
COMS 104	Advanced Public Communication	3.0
COMS 135	Interpersonal Communication	3.0
COMS 180	Intercultural Communication	3.0
		Total: 9.0

COMMUNICATION STUDIES: VOICE AND PERFORMANCE - CERTIFICATE OF PERFORMANCE

Summary

The Certificate of Performance in Communication Studies: Voice and Performance is for students who have demonstrated a competence in communication studies by taking classes to enhance their communication skills, specifically in the area of voice and performance. These skills will benefit them in a variety of fields related to communication studies (advertising, public relations, community service, marketing, performing arts, politics, film, journalism, and media production) as well as degrees and careers outside of communication studies where performance and presentation are essential elements.

Note:**Students must complete nine (9) from the courses listed.**

This program is not eligible for federal financial aid in accordance with Federal regulations.

The Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Research, organize, and present a developed viewpoint.
2. Develop effective verbal and presentational skills for a variety of communication situations.
3. Design effective communication in order to facilitate understanding and cooperation.
4. Analyze the audience's backgrounds, motives and attitudes.
5. Evaluate the speaker's backgrounds, motives and attitudes.

Requirements**COURSES REQUIRED FOR THE MAJOR:****Units: 9.0**

Students must complete nine (9) units from the courses listed below:

COMS 101	Voice and Articulation	3.0
COMS 103	Oral Communication	3.0
COMS 104	Advanced Public Communication	3.0
COMS 111	Oral Interpretation	3.0
COMS 160	Argumentation and Critical Thinking	3.0
DRAM 106	Voice-Over Performance	3.0

Total: 9.0

COMMUNICATIONS TECHNICIAN APPRENTICESHIP - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

Prepares student for employment as a Communications Technician with the City of San Diego.

Additional general education and graduation requirements for the associate degree are listed in the Academic Requirements section of catalog. The associate degree requires a minimum of 60 units.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. San Diego City civil Service Communications Technician Apprenticeship students will read, comprehend and apply Communications Technician instructions and design standards for Communications Technician outcomes as required by Communications Technician practice and industry standards.
2. San Diego City civil Service Communications Technician Apprenticeship students will identify and utilize equipment and related components of Communications Technician to meet standards for measurement, calibration and Communications Technician practices at Journeyman levels.
3. San Diego City civil Service Communications Technician Apprenticeship students will illustrate procedures utilized for Communication Technician practices in use of tools techniques and hands-on skills and competencies for Journeyman-level practices in Communication Technician Apprenticeship.
4. San Diego City civil Service Communications Technician Apprenticeship students will demonstrate preparedness for successful transition to the Journeyman level designation and professional certification by the California Division of Apprenticeship Standards for the Communications Technician.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 36.0

ELDT 123	Introduction to Digital Circuits	3.0
ELDT 123L	Digital Circuits Laboratory	1.0
ELDT 124	Basic DC Electronics	4.0
ELDT 124L	Basic DC Laboratory	1.0
ELDT 143	Semiconductor Devices	3.0
ELDT 143L	Semiconductor Devices Laboratory	1.5
ELDT 144	OP-AMPS, Sensors and Computers	3.0
ELDT 144L	OP-AMPS and Sensors Laboratory	1.5
ELDT 225	Microcontrollers	3.0
ELDT 225L	Microcontrollers Laboratory	1.5
ELDT 228	Communication Circuits	3.0
ELDT 228L	Communication Circuits and Certification Laboratory	1.0
ELDT 229	Advanced Telecommunications Networks	3.0
ELDT 229L	Advanced Telecommunications Networks Laboratory	1.0
ELDT 232	Advanced Computer Design and Interfacing	4.0
ELDT 232L	Advanced Computer Designs Laboratory	1.5

Total: 36.0

COMMUNICATIONS TECHNICIAN APPRENTICESHIP - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

Prepares student for employment as a Communications Technician with the City of San Diego.

Learning Outcome(s):

1.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 36.0

ELDT 123	Introduction to Digital Circuits	3.0
ELDT 123L	Digital Circuits Laboratory	1.0
ELDT 124	Basic DC Electronics	4.0
ELDT 124L	Basic DC Laboratory	1.0
ELDT 143	Semiconductor Devices	3.0
ELDT 143L	Semiconductor Devices Laboratory	1.5
ELDT 144	OP-AMPS, Sensors and Computers	3.0
ELDT 144L	OP-AMPS and Sensors Laboratory	1.5
ELDT 225	Microcontrollers	3.0
ELDT 225L	Microcontrollers Laboratory	1.5
ELDT 228	Communication Circuits	3.0
ELDT 228L	Communication Circuits and Certification Laboratory	1.0
ELDT 229	Advanced Telecommunications Networks	3.0
ELDT 229L	Advanced Telecommunications Networks Laboratory	1.0
ELDT 232	Advanced Computer Design and Interfacing	4.0
ELDT 232L	Advanced Computer Designs Laboratory	1.5

Total: 36.0

COMMUNITY HEALTH WORK - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Community Health Work is designed to prepare students to work in a variety of health settings that utilize entry-level front-line health care workers by providing training in the core competencies needed to successfully insert themselves in the vast range of options this line of work provides.

Learning Outcome(s):

1. Students who complete the program will be able to make a report of an incident or suspected incident of an abuse/neglect of dependent adults and elders.
2. Students who complete the program will be able to recognize and identify risk of caregiver stress, particularly in caring for individuals suffering from Alzheimer's and other dementia.
3. Students who complete the program will be able to identify and make referral to appropriate services.
4. Students who complete the program will be able to identify and compare the various public benefits available through local, state, federal, public assistance programs.
5. Students who complete the program will be able to recognize, identify, assess, and address key concepts in aging (e.g., physical and mental health, exercise, nutrition, the normal aging process, etc.) affecting optimal aging and older adulthood functioning.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 18.0-21.0

The department recommends that students take HUMS103 before taking HUMS121 and HUMS121 is before HUMS122 and HUMS 270.

HUMS 103	Introduction to Community Health Work	3.0
HUMS 111	Introduction to Chronic Disease	3.0
HUMS 118	Diversity and Cultural Competency	3.0
HUMS 121	Practicum 1: Core Competencies	3.0
HUMS 122	Practicum 2: Field Work	2.0
PSYC 130	Introduction to Community Psychology	3.0
HUMS 270	Work Experience	1.0-4.0

Total: 18.0-21.0

COMMUNITY HEALTH WORK - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Community Health Work Certificate Program provides students who work in, or plan to work in, the field of Community Health Work with a fundamental academic and practical base for success in the field.

*A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

Note:

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Students who complete the program will be able to make a report of an incident or suspected incident of an abuse/neglect of dependent adults and elders.

2. Students who complete the program will be able to recognize and identify risk of caregiver stress, particularly in caring for individuals suffering from Alzheimer's and other dementia.
3. Students who complete the program will be able to identify and make referral to appropriate services.
4. Students who complete the program will be able to identify and compare the various public benefits available through local, state, federal, public assistance programs.
5. Students who complete the program will be able to recognize, identify, assess, and address key concepts in aging (e.g., physical and mental health, exercise, nutrition, the normal aging process, etc.) affecting optimal aging and older adulthood functioning.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 9.0

HUMS 103	Introduction to Community Health Work	3.0
HUMS 111	Introduction to Chronic Disease	3.0
HUMS 112	Community Service Practicum	3.0

Total: 9.0

COMPUTER AIDED MANUFACTURING - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Machine Technology program offers a variety of instruction in the process of modern manufacturing. Emphasis is placed on CAD/CAM and C.N.C. technology.

Note:

This is a two semester certificate. The department suggest students take MACT 160M first semester toward this certificate.

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. This program is not eligible for federal financial aid in accordance with Federal regulations.**

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Students who complete the program will be able to complete necessary documentation and inspection forms as required.
2. Students who complete the program will be able to create designs, both basic and advance using CAD/CAM software.
3. Students who complete the program will be able to machine projects to specifications using both conventional, and C.N.C. machines. Create C.N.C. program using both "hand coding" and CAD/CAM software.
4. Students who complete the program will be able to setup machine tools to specification in a given time period.
5. Students who complete the program will be able to demonstrate knowledge of print reading and symbology
6. Students who complete the program will be able to solve common machining problems using various mathematical equations.
7. Students who complete the program will be able to utilize common measuring instruments to ensure projects are within given specifications.
8. Students who complete the program will be able to demonstrate an understanding of common safety policies used in modern machining facilities.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 12.0

This is a two semester certificate. The department suggest students take MACT 160M first semester toward this certificate.

MACT 160M	Introduction to CAD/CAM	4.0
MACT 170	Introduction to CNC Controlled Vertical Machining	4.0
MACT 180M	Advanced CAD/CAM	4.0

Total: 12.0

COMPUTER AIDED MANUFACTURING (CAM) OPTION - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

An Associate of Science Degree may be earned in Computer Aided Manufacturing Option. Complete the Computer Aided Manufacturing Option Certificate of Achievement as specified above (32 units).

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Students who complete the program will be able to complete necessary documentation and inspection forms as required.
2. Students who complete the program will be able to create designs, both basic an advance using CAD/CAM software.
3. Students who complete the program will be able to machine projects to specifications using both conventional, and C.N.C. machines Create C.N.C. program using both "hand coding" and CAD/CAM software.
4. Students who complete the program will be able to setup machine tools to specification in a given time period.
5. Students who complete the program will be able to demonstrate knowledge of print reading and symbology.
6. Students who complete the program will be able to solve common machining problems using various mathematical equations.
7. Students who complete the program will be able to utilize common measuring instruments to ensure projects are within given specifications.
8. Students who complete the program will be able to demonstrate an understanding of common safety policies used in modern machining facilities.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 16.0

MACT 140	Machine Technology	4.0
MACT 150	Intro/Computer Numerical Control (CNC)	4.0
MACT 170	Introduction to CNC Controlled Vertical Machining	4.0
MACT 171	Application of CNC Controlled Vertical Machining and CNC Controlled Turning Centers I	2.0
MACT 172	Application of CNC Controlled Vertical Machining and CNC Controlled Turning Centers II	2.0

Recommended First Semester Enrollment: MACT 140 Machine Technology MACT 150 Intro to CNC & EDM MACT 160 M Intro to CAD/CAM MACT 161 M Applications of CAD/CAM I

Complete the following additional Computer Aided Manufacturing Option certificate of achievement courses:

Units: 12.0

MACT 161M	Applications of CAD/CAM I	2.0
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MACT 162M	Applications of CAD/CAM II	2.0
MACT 180M	Advanced CAD/CAM	4.0
MACT 181M	Application in Advanced CAD/CAM I	2.0
MACT 182M	Application in Advanced CAD/CAM II	2.0

and the following C.N.C. Technology Option certificate of achievement course: Units: 4.0

MACT 160M	Introduction to CAD/CAM	4.0
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Total: 32.0

Courses

MACT 140 Machine Technology

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade Only

This course is an introduction to the Machine Technology field. Emphasis is placed on safety, measurements, common formulas, machining applications, drawings, and career opportunities in the field. This course is designed for students planning to major in the occupational field of machine technology.

FT; AA/AS; CSU.

MACT 150 Intro/Computer Numerical Control (CNC)

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade Only

This course is a study of advanced machining techniques including numerically controlled mills and lathes. Emphasis is placed on introducing the student to Computer Numerical Control (CNC) programming using "G" and "M" codes. This course is intended for students majoring in machine technology or for professionals who want to update their skills.

FT; AA/AS; CSU.

MACT 170 Introduction to CNC Controlled Vertical Machining

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade Only

Advisory: Completion of or concurrent enrollment in: MACT 150 with a Grade of "C" or better, or equivalent

This course is an introductory, hands-on study of Computer Numerical Control (CNC) Vertical Machining and CNC Lathe theory and techniques. Emphasis is placed on Vertical Machining operations. This course is intended for students majoring in machine technology or for professionals who want to update their skills.

FT; AA/AS; CSU.

MACT 171 Application of CNC Controlled Vertical Machining and CNC Controlled Turning Centers I

2 hours lab; 2 units

Grading: Letter Grade Only

Advisory: Completion of or concurrent enrollment in: MACT 170 with a Grade of "C" or better, or equivalent

This laboratory course provides exercises in Computer Numerical Control (CNC) Vertical Machining techniques and CNC Turning techniques at an intermediate level. Students at this level work under moderate instructor supervision to increase efficiency and quality of work. This course is intended for students majoring in machine technology or for professionals who want to update their skills.

FT; AA/AS; CSU.

MACT 172 Application of CNC Controlled Vertical Machining and CNC Controlled Turning Centers II

2 hours lab; 2 units

Grading: Letter Grade Only

Advisory: Completion of or concurrent enrollment in: MACT 171 with a Grade of "C" or better, or equivalent

This laboratory course provides exercises in Computer Numerical Control (CNC) Vertical Machining techniques and CNC Turning techniques at an advanced level. Students at this level work under minimal instructor supervision to increase efficiency and quality of work. This course is intended for students majoring in machine technology or for professionals who want to update their skills.

FT; AA/AS; CSU.

MACT 161M Applications of CAD/CAM I

2 hours lab; 2 units

Grading: Letter Grade Only

Advisory: Completion of or concurrent enrollment in: MACT 160M with a Grade of "C" or better, or equivalent

This course presents students with intermediate-level Computer Aided Design/Computer Aided Manufacturing CAD/CAM projects dealing with Computer Numerical Control (CNC) program generation for the CNC Mill and CNC Lathe using Mastercam software. Students at this level work under moderate instructor supervision to increase efficiency and quality of work. This course is intended for students majoring in machine technology or for professionals who want to update their skills.

FT; AA/AS; CSU.

MACT 162M Applications of CAD/CAM II

2 hours lab; 2 units

Grading: Letter Grade Only

Advisory: Completion of or concurrent enrollment in: MACT 161M with a Grade of "C" or better, or equivalent

This course presents students with advanced-level Computer Aided Design/Computer Aided Manufacturing (CAD/CAM) exercises dealing with Computer Numerical Control (CNC) program generation for the CNC Mill and CNC Lathe using Mastercam. Students at this level work with minimal instructor supervision to increase efficiency and quality of work. This course is intended for students majoring in machine technology or for professionals who want to update their skills.

FT; AA/AS; CSU.

MACT 180M Advanced CAD/CAM

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade Only

Advisory: Completion of or concurrent enrollment in: MACT 161M with a Grade of "C" or better, or equivalent

This course is an advanced, hands-on study of Computer Aided Design / Computer Aided Manufacturing (CAD/CAM) theory and applications using Mastercam software. Emphasis is placed on generating programs using advanced modeling surface techniques for both the Computer Numerical Control (CNC) Mill and CNC Lathe at a beginning level under direct instructor supervision. This course is intended for students majoring in machine technology or for professionals who want to update their skills.

FT; AA/AS; CSU.

MACT 181M Application in Advanced CAD/CAM I

2 hours lab; 2 units

Grading: Letter Grade Only

Advisory: Completion of or concurrent enrollment in: MACT 180M with a Grade of "C" or better, or equivalent

This course is an advanced, hands-on study of Computer Aided Design / Computer Aided Manufacturing (CAD/CAM) theory and applications using Mastercam software. Emphasis is placed on generating programs using advanced modeling techniques for both the Computer Numerical Control (CNC) Mill and CNC Lathe at an intermediate level under moderate instructor supervision. This course is intended for students majoring in machine technology or for professionals who want to update their skills.

FT; AA/AS; CSU.

MACT 182M Application in Advanced CAD/CAM II

2 hours lab; 2 units

Grading: Letter Grade Only

Advisory: Completion of or concurrent enrollment in: MACT 181M with a Grade of "C" or better, or equivalent

This course is an advanced, hands-on study of Computer Aided Design / Computer Aided Manufacturing (CAD/CAM) theory and applications using Mastercam software. Emphasis is placed on generating programs using advanced surface modeling techniques for both the Computer Numerical Control (CNC) Mill and CNC Lathe at an advanced level under minimal instructor supervision. This course is intended for students majoring in machine technology or for professionals who want to update their skills.

FT; AA/AS; CSU.

MACT 160M Introduction to CAD/CAM

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade Only

Advisory: Concurrent enrollment in: MACT 161M

This course is an introductory, hands-on study of Computer Aided Design/Computer Aided Manufacturing (CAD/CAM) theory and applications using Mastercam software. Emphasis is placed on generating programs at a basic level for both the Computer Numerical Control (CNC) Mill and CNC Lathe. This course is intended for students majoring in machine technology or for professionals who want to update their skills.

FT; AA/AS; CSU.

COMPUTER AIDED MANUFACTURING (CAM) OPTION - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Machine Technology program offers a variety of instruction in the process of modern manufacturing. Emphasis is placed on CAD/CAM and C.N.C. technology.

Learning Outcome(s):

1. Students who complete the program will be able to complete necessary documentation and inspection forms as required.
2. Students who complete the program will be able to create designs, both basic and advance using CAD/CAM software.
3. Students who complete the program will be able to machine projects to specifications using both conventional, and C.N.C. machines. Create C.N.C. program using both "hand coding" and CAD/CAM software.
4. Students who complete the program will be able to setup machine tools to specification in a given time period.
5. Students who complete the program will be able to demonstrate knowledge of print reading and symbology.
6. Students who complete the program will be able to solve common machining problems using various mathematical equations.
7. Students who complete the program will be able to utilize common measuring instruments to ensure projects are within given specifications.
8. Students who complete the program will be able to demonstrate an understanding of common safety policies used in modern machining facilities.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 16.0

MACT 140	Machine Technology	4.0
MACT 150	Intro/Computer Numerical Control (CNC)	4.0
MACT 170	Introduction to CNC Controlled Vertical Machining	4.0
MACT 171	Application of CNC Controlled Vertical Machining and CNC Controlled Turning Centers I	2.0
MACT 172	Application of CNC Controlled Vertical Machining and CNC Controlled Turning Centers II	2.0

Recommended First Semester Enrollment: MACT 140 Machine Technology MACT 150 Intro to CNC & EDM MACT 160 M Intro to CAD/CAM MACT 161 M Applications of CAD/CAM I

Complete the following additional courses required for the major:

Units: 12.0

MACT 161M	Applications of CAD/CAM I	2.0
MACT 162M	Applications of CAD/CAM II	2.0
MACT 180M	Advanced CAD/CAM	4.0

MACT 181M	Application in Advanced CAD/CAM I	2.0
MACT 182M	Application in Advanced CAD/CAM II	2.0

and the following C.N.C. Technology Option certificate of achievement course: Units: 4.0

MACT 160M	Introduction to CAD/CAM	4.0
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Total: 32.0

COMPUTER NUMERICAL CONTROL (CNC) OPERATOR OPTION - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Machine Technology program offers a variety of instruction in the process of modern manufacturing. Emphasis is placed on CAD/CAM and C.N.C. technology.

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. Note:**

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Students who complete the program will be able to complete necessary documentation and inspection forms as required.
2. Students who complete the program will be able to create designs, both basic and advance using CAD/CAM software.
3. Students who complete the program will be able to machine projects to specifications using both conventional, and C.N.C. machines. Create C.N.C. program using both "hand coding" and CAD/CAM software.
4. Students who complete the program will be able to setup machine tools to specification in a given time period.
5. Students who complete the program will be able to demonstrate knowledge of print reading and symbology.
6. Students who complete the program will be able to solve common machining problems using various mathematical equations.
7. Students who complete the program will be able to utilize common measuring instruments to ensure projects are within given specifications.
8. Students who complete the program will be able to demonstrate an understanding of common safety policies used in modern machining facilities.

Requirements

COURSES REQUIRED FOR THE MAJOR: Units: 12.0

MACT 150	Intro/Computer Numerical Control (CNC)	4.0
MACT 170	Introduction to CNC Controlled Vertical Machining	4.0
MACT 171	Application of CNC Controlled Vertical Machining and CNC Controlled Turning Centers I	2.0
MACT 172	Application of CNC Controlled Vertical Machining and CNC Controlled Turning Centers II	2.0

Total: 12.0

COMPUTER NUMERICAL CONTROL (CNC) TECHNOLOGY OPTION - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Machine Technology program offers a variety of instruction in the process of modern manufacturing. Emphasis is placed on CAD/CAM and C.N.C. technology.

Learning Outcome(s):

1. Students who complete the program will be able to complete necessary documentation and inspection forms as required.
2. Students who complete the program will be able to create designs, both basic and advanced using CAD/CAM software.
3. Students who complete the program will be able to machine projects to specifications using both conventional, and C.N.C. machines. Create C.N.C. program using both "hand coding" and CAD/CAM software.
4. Students who complete the program will be able to setup machine tools to specification in a given time period.
5. Students who complete the program will be able to demonstrate knowledge of print reading and symbology.
6. Students who complete the program will be able to solve common machining problems using various mathematical equations.
7. Students who complete the program will be able to utilize common measuring instruments to ensure projects are within given specifications.
8. Students who complete the program will be able to demonstrate an understanding of common safety policies used in modern machining facilities.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 16.0

MACT 140	Machine Technology	4.0
MACT 150	Intro/Computer Numerical Control (CNC)	4.0
MACT 170	Introduction to CNC Controlled Vertical Machining	4.0
MACT 171	Application of CNC Controlled Vertical Machining and CNC Controlled Turning Centers I	2.0
MACT 172	Application of CNC Controlled Vertical Machining and CNC Controlled Turning Centers II	2.0

Recommended First Semester Enrollment: MACT 140 Machine Technology MACT 150 Intro to CNC & EDM MACT 160 M Intro to CAD/CAM MACT 161 M Applications of CAD/CAM I

Complete the following additional course required for the major:

Units: 4.0

MACT 160M	Introduction to CAD/CAM	4.0
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Total: 20.0

COMPUTER NUMERICAL CONTROL (CNC) TECHNOLOGY OPTION - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Machine Technology program offers a variety of instruction in the process of modern manufacturing. Emphasis is placed on CAD/CAM and C.N.C. technology.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Students who complete the program will be able to complete necessary documentation and inspection forms as required.

2. Students who complete the program will be able to create designs, both basic and advanced using CAD/CAM software.
3. Students who complete the program will be able to machine projects to specifications using both conventional, and C.N.C. machines. Create C.N.C. program using both "hand coding" and CAD/CAM software.
4. Students who complete the program will be able to setup machine tools to specification in a given time period.
5. Students who complete the program will be able to demonstrate knowledge of print reading and symbology.
6. Students who complete the program will be able to solve common machining problems using various mathematical equations.
7. Students who complete the program will be able to utilize common measuring instruments to ensure projects are within given specifications.
8. Students who complete the program will be able to demonstrate an understanding of common safety policies used in modern machining facilities.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 12.0

MACT 140	Machine Technology	4.0
MACT 150	Intro/Computer Numerical Control (CNC)	4.0
MACT 160M	Introduction to CAD/CAM	4.0

Recommended First Semester Enrollment: MACT 140 Machine Technology MACT 150 Intro to CNC & EDM MACT 160 M Intro to CAD/CAM MACT 161 M Applications of CAD/CAM I

Total: 12.0

COMPUTER PROGRAMMING - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

This award prepares students for entry-level employment in the field of information technology (IT). It is designed to provide students with training in the theory and practice of computer programming emphasizing business and computer applications. Students receive hands-on experience in the fundamentals of structured- and object-oriented analysis, design, and implementation of popular computer programming languages, such as Python, C++, and Java.

Note:

The Computer Information Systems Department requires students to complete all course requirements for the degree within five years.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Upon successful program completion, our graduates will apply security principles and practices to maintain operations in the presence of risks and threats.
2. Upon successful program completion, our graduates will function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
3. Upon successful program completion, our graduates will recognize professional responsibilities and make informed judgments in computing practice, taking into account legal, ethical, diversity, equity, inclusion, and accessibility principles consistent with the mission of the institution.
4. Upon successful program completion, our graduates will communicate effectively in a variety of professional contexts.
5. Upon successful program completion, our graduates will design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.

- Upon successful program completion, our graduates will analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 28.0

The Computer Information Systems Department requires students to complete all course requirements for the degree within five years.

CISC 179	Introduction to Python Programming	4.0
		4.0
CISC 183	Web Development with Ruby on Rails	4.0
OR		
CISC 193	Microsoft C# Software Engineering 1	4.0
CISC 187	Data Structures in C++	4.0
CISC 190	Java Programming	4.0
CISC 192	C/C++ Programming	4.0
CISC 201	Advanced C++ Programming	4.0
CISC 205	Object Oriented Programming using C++	4.0

Total: 28.0

COMPUTER PROGRAMMING - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

This award prepares students for entry-level employment in the field of information technology (IT). It is designed to provide students with training in the theory and practice of computer programming emphasizing business and computer applications. Students receive hands-on experience in the fundamentals of structured- and object-oriented analysis, design, and implementation of popular computer programming languages, such as Python, C++, and Java.

Learning Outcome(s):

- Upon successful program completion, our graduates will apply security principles and practices to maintain operations in the presence of risks and threats.
- Upon successful program completion, our graduates will function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
- Upon successful program completion, our graduates will recognize professional responsibilities and make informed judgments in computing practice, taking into account legal, ethical, diversity, equity, inclusion, and accessibility principles consistent with the mission of the institution.
- Upon successful program completion, our graduates will communicate effectively in a variety of professional contexts.
- Upon successful program completion, our graduates will design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
- Upon successful program completion, our graduates will analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 28.0

The Computer Information Systems Department requires students to complete all course requirements for the certificate within five years.

CISC 179	Introduction to Python Programming	4.0
		4.0
CISC 183	Web Development with Ruby on Rails	4.0
OR		
CISC 193	Microsoft C# Software Engineering 1	4.0
CISC 187	Data Structures in C++	4.0
CISC 190	Java Programming	4.0
CISC 192	C/C++ Programming	4.0
CISC 201	Advanced C++ Programming	4.0
CISC 205	Object Oriented Programming using C++	4.0

Total: 28.0

CONFLICT RESOLUTION AND MEDIATION - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Conflict Resolution and Mediation Certificate offers an interdisciplinary, theoretical, philosophical and applied approach for students to enter into the academic and/or professional fields related to Conflict Resolution and Mediation. Students explore the impacts of culture, intra and inter-group communication, conflict resolution and mediation. Students gain theory and practice to address conflicts in a personal, local, national and international level. The Conflict Resolution and Mediation program allows students access to professional experience with an organization working within a related field through participation in the required Field Work course.

Learning Outcome(s):

1. Upon successful completion of the Conflict Resolution and Mediation program, students are able to develop and enhance skills related to communication, listening and problem solving.
2. Upon successful completion of the Conflict Resolution and Mediation program, students are able to learn and understand the core principles, values, and application of conflict resolution and mediation.
3. Upon successful completion of the Conflict Resolution and Mediation program, students are able to discover the art and science of conflict resolution and mediation.
4. Upon successful completion of the Conflict Resolution and Mediation program, students are able to critically think about their own values, individual biases, and personal conflict resolution style.
5. Upon successful completion of the Conflict Resolution and Mediation program, students are able to think about their role in society through the use of conflict resolution and mediation.
6. Upon successful completion of the Conflict Resolution and Mediation program, students are able to contemplate, analyze, and discuss issues related to the role of culture in conflict resolution and mediation.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 18.0

		3.0
ANTH 103	Introduction to Cultural Anthropology	3.0
OR		
HUMS 118	Diversity and Cultural Competency	3.0
		3.0
PSYC 130	Introduction to Community Psychology	3.0
OR		
PSYC 166	Introduction to Social Psychology	3.0
PEAC 102	Nonviolence and Conflict Resolution	3.0
CRES 101	Conflict Resolution and Mediation	3.0
CRES 102	Mediation Skills	3.0

Total: 18.0

CONFLICT RESOLUTION AND MEDIATION - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Conflict Resolution and Mediation Certificate offers an interdisciplinary, theoretical, philosophical and applied approach for students to enter into the academic and/or professional fields related to Conflict Resolution and Mediation. Students explore the impacts of culture, intra and inter-group communication, conflict resolution and mediation. Students gain theory and practice to address conflicts in a personal, local, national and international level. The Conflict Resolution and Mediation program allows students access to professional experience with an organization working within a related field through participation in the required Field Work course.

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. Note:**

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Upon successful completion of the Conflict Resolution and Mediation program, students are able to develop and enhance skills related to communication, listening and problem solving.
2. Upon successful completion of the Conflict Resolution and Mediation program, students are able to learn and understand the core principles, values, and application of conflict resolution and mediation.
3. Upon successful completion of the Conflict Resolution and Mediation program, students are able to discover the art and science of conflict resolution and mediation.
4. Upon successful completion of the Conflict Resolution and Mediation program, students are able to critically think about their own values, individual biases, and personal conflict resolution style.
5. Upon successful completion of the Conflict Resolution and Mediation program, students are able to think about their role in society through the use of conflict resolution and mediation.
6. Upon successful completion of the Conflict Resolution and Mediation program, students are able to contemplate, analyze, and discuss issues related to the role of culture in conflict resolution and mediation.

Requirements**COURSES REQUIRED FOR THE MAJOR:****Units: 15.0**

		3.0
ANTH 103	Introduction to Cultural Anthropology	3.0
OR		
HUMS 118	Diversity and Cultural Competency	3.0
		3.0
PSYC 130	Introduction to Community Psychology	3.0
OR		
PSYC 166	Introduction to Social Psychology	3.0
PEAC 102	Nonviolence and Conflict Resolution	3.0
CRES 101	Conflict Resolution and Mediation	3.0
CRES 102	Mediation Skills	3.0

Total: 15.0

COSMETOLOGY - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The Associate Degree in Cosmetology provides students with the practical and theoretical cosmetology training that prepares the student for the California Board of Cosmetology examination. Students completing this degree have a competitive edge over their private school counterparts. Students not only acquire the high-level skills to compete in the industry, they also earn the opportunity to expand their educational horizon beyond the completion of the associate degree. It is strongly recommended that students consult with a counselor to determine which general education option is most appropriate for their individual educational goals.

Note:

A grade of "C" or better must be maintained in order to advance in the course sequence. The Cosmetology Department requires students to complete all required courses within seven years.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Upon successful concepts of the Cosmetology program the student will be able to apply cosmetology products and procedures in providing services to clients.
2. Upon successful concepts of the Cosmetology program the student will be able to compare and contrast cosmetology procedures and practices.
3. Upon successful concepts of the Cosmetology program the student will be able to explain basic cosmetology concepts, terms and definitions.
4. Upon successful concepts of the Cosmetology program the student will be able to perform all practical applications required for the state board examination/state licensure.
5. Upon successful concepts of the Cosmetology program the student will be able to utilize professional practice terminology and techniques as required by the California Bureau of Cosmetology examination.
6. Upon successful concepts of the Cosmetology program the student will be able to practice safety, health, and sanitation procedures as set forth by the California Bureau of Cosmetology.
7. Upon successful concepts of the Cosmetology program the student will be able to apply cosmetology concepts, procedures and practices to successfully pass the State Board Examination.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 24.0

The Cosmetology department requires students to complete all required courses within seven years.

COSM 50L	Fundamentals of Cosmetology	6.0
COSM 60L	Intermediate Cosmetology	6.0
COSM 70L	Intermediate-Advanced Cosmetology	6.0
COSM 80L	Advanced Cosmetology	6.0

Total: 24.0

COSMETOLOGY - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Cosmetology provides students with practical and theoretical cosmetology training that prepares the student for the California Board of Cosmetology examination. Students gain the knowledge and hands-on skills on all aspects of the beauty industry under the supervision of trained professionals.

Note:

A grade of "C" or better must be maintained in order to advance in the course sequence. The Cosmetology Department requires students to complete all required courses within seven years.

The Cosmetology department requires students to complete all required courses within seven years.

Learning Outcome(s):

1. Upon successful concepts of the Cosmetology program the student will be able to apply cosmetology products and procedures in providing services to clients.
2. Upon successful concepts of the Cosmetology program the student will be able to compare and contrast cosmetology procedures and practices.
3. Upon successful concepts of the Cosmetology program the student will be able to explain basic cosmetology concepts, terms and definitions.
4. Upon successful concepts of the Cosmetology program the student will be able to perform all practical applications required for the state board examination/state licensure.
5. Upon successful concepts of the Cosmetology program the student will be able to practice safety, health, and sanitation procedures as set forth by the California Bureau of Cosmetology.
6. Upon successful concepts of the Cosmetology program the student will be able to apply cosmetology concepts, procedures and practices to successfully pass the State Board Examination.
7. Upon successful concepts of the Cosmetology program the student will be able to utilize professional practice terminology and techniques as required by the California Bureau of Cosmetology examination.

Requirements**COURSES REQUIRED FOR THE MAJOR:****Units: 24.0**

The Cosmetology department requires students to complete all required courses within seven years.

COSM 50L	Fundamentals of Cosmetology	6.0
COSM 60L	Intermediate Cosmetology	6.0
COSM 70L	Intermediate-Advanced Cosmetology	6.0
COSM 80L	Advanced Cosmetology	6.0

Total: 24.0

COSMETOLOGY TEACHER TRAINING PROGRAM - CERTIFICATE OF PERFORMANCE: CITY

Summary

Students learn effective teaching methods to assist Cosmetology and Esthetician students with developing skills in sales, community and client relations, care of skin, hair and nails, as well as salon management. Emphasis is focused on lesson planning, oral presentations, and evaluations that teach the practical aspects of cosmetology science. Students must have obtained an approved California State Board of Barbering and Cosmetology license to enroll in the program.

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. Note:**

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Upon successful concepts of the Cosmetology program the student will be able to apply cosmetology products and procedures in providing services to clients.

2. Upon successful concepts of the Cosmetology program the student will be able to compare and contrast cosmetology procedures and practices.
3. Upon successful concepts of the Cosmetology program the student will be able to explain basic cosmetology concepts, terms and definitions.
4. Upon successful concepts of the Cosmetology program the student will be able to perform all practical applications required for the state board examination/state licensure.
5. Upon successful concepts of the Cosmetology program the student will be able to utilize professional practice terminology and techniques as required by the California Bureau of Cosmetology examination.
6. Upon successful concepts of the Cosmetology program the student will be able to practice safety, health, and sanitation procedures as set forth by the California Bureau of Cosmetology.
7. Upon successful concepts of the Cosmetology program the student will be able to apply cosmetology concepts, procedures and practices to successfully pass the State Board Examination.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 9.0

COSM 94A	Cosmetology Teacher Training Program I	4.5
COSM 94B	Cosmetology Teacher Training Program II	4.5

Total: 9.0

CREATIVE WRITING - CERTIFICATE OF PERFORMANCE

Summary

The English program provides a breadth of course work designed to improve reading, writing, listening, speaking, and critical thinking skills. English classes range from developmental writing to transfer-level courses in reading and composition, composition and literature, and intermediate composition and critical thinking, as well as a series of sequential creative writing courses. Literature offerings include an introductory course and specialized courses such as British and American Literature and women in literature. Humanities courses explore cultural achievements of world civilizations. English department courses meet English Composition requirements for the associate degree and for University of California, and California State University, Communications in the English Language and Critical Thinking requirements. Literature courses may also meet general education, humanities, multicultural studies requirements, and preparation for transfer.

The English major at the lower-division level emphasizes learning to read more critically and to write more effectively using strategies of narration, exposition and argument. The English major primarily serves students transferring to colleges and universities where the focus is on academic writing, research, and criticism.

For students seeking a broad appreciation of literature and increased skills in communication. Superior ability to understand and use English is necessary for success in such careers as education, writing, advertising, sales, journalism, law, business and government.

Students planning to transfer to a four-year institution should learn the requirements for that institution.

The goals of the creative writing certificate are to encourage creative writing students to learn and grow as writers while providing them with a writing community, to help prepare students for upper division writing programs, and to give students a program of study that will help guide the development of their writing skills.

Note:

The Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Apply strategies both inside and outside the classroom that reflect an understanding of the reading and writing processes in order to become life-long learners, critical thinkers, and active citizens.
2. Describe, explain, and analyze multiple perspectives on issues in ways that demonstrate global awareness and appreciation of diversity in its many manifestations.
3. Apply appropriate research strategies and citation formats.
4. Organize ideas and information and express them clearly and effectively in writing for both academic and workplace contexts for different communicative purposes.
5. Read and comprehend texts, recognize author strategies, purpose, perspective, and argument, and use critical thinking to evaluate a variety of writing.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 3.0

ENGL 249A	Introduction to Creative Writing I	3.0
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Select two courses from the following:

Units: 6.0

ENGL 249B	Introduction to Creative Writing II	3.0
ENGL 245A	Writing Creative Nonfiction	3.0
ENGL 245B	Advanced Creative Nonfiction	3.0
ENGL 247A	Writing Seminar - Poetry	3.0
ENGL 252A	Fundamentals of Fiction Writing	3.0
ENGL 252B	Intermediate Fiction Writing	3.0
DRAM 108	Playwriting	3.0
FJMP 120	Introduction to Screenwriting	3.0

Select two courses from the following:

Units: 6.0

ENGL 208	Introduction to Literature	3.0
ENGL 210	American Literature I	3.0
ENGL 211	American Literature II	3.0
ENGL 215	English Literature I: 800-1799	3.0
ENGL 216	English Literature II: 1800 - Present	3.0
ENGL 220	Masterpieces of World Literature I: 1500 BCE - 1600 CE	3.0
ENGL 221	Masterpieces of World Literature II: 1600 - Present	3.0
ENGL 240	Shakespeare	3.0
BLAS 155	African American Literature	3.0
CHIC 135	Chicana/o Literature	3.0

Total: 15.0

CSU GENERAL EDUCATION (CSU-GE-BREADTH) - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The student will select courses that fulfill the CSU GE certification pattern detailed on page 134 of this catalog. CSU GE is accepted by all CSU campuses and some private / independent or out of state universities. CSU GE is not accepted by the UC system.

Learning Outcome(s):

- 1.

Requirements

CUSTOMER RELATIONSHIP MANAGEMENT - CERTIFICATE OF PERFORMANCE: CITY

Summary

This program provides an in-depth exploration of customer relationship management. Students study customer service and professional selling practices used in customer relationship management. Emphasis is placed on careers in customer service and sales fields.

Note:

The goal of this program is to introduce students to customer service techniques, client communication processes, and the stages of professional selling to increase their opportunities for employment in the customer relationship management sector. Students who successfully complete this Certificate of Performance will be able to practice and enhance their customer listening and communication skills, customer service and problem solving, and sales presentation knowledge. Program SLO: Analyze, organize, and compose various types of written and oral business communications. This is a departmental award in recognition of information on the transcript and does not imply meeting a graduation requirement.

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. Note: This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Students who complete the program will be able to leverage technology to manage and use information for decision making.
2. Students who complete the program will be able to analyze business scenarios to formulate and implement plans of action.
3. Students who complete the program will be able to develop and apply appropriate communication skills across various business settings.

Requirements

COURSES REQUIRED FOR THE MAJOR:

		Units: 6.0
BUSE 102	Introduction to Customer Service	3.0
MARK 105	Professional Selling	3.0
		Total: 6.0

CYBER DEFENSE AND ANALYSIS - BACHELOR OF SCIENCE DEGREE: CITY

Summary

The Bachelor of Science in Cyber Defense and Analysis follows the National Initiative for Cybersecurity Education (NICE) Cybersecurity Workforce Framework and the Department of Defense (DoD) Cyber Workforce Framework (DCWF) with the common goal of developing critical knowledge, skills, and abilities (KSAs) to perform real-time defensive cyber operations. Program emphasis is on architectural, analytical, and strategic application of advanced techniques and technologies to actively monitor and defend core operational and emerging technology, network hardware and systems, and supply chain and critical infrastructure. Additionally, students explore the ethical and societal impacts of the development and use of cyber technology. This pathway includes preparation for multiple industry-recognized certifications geared toward preparing students to be job-ready for a successful career in cyber workforce roles that impact an organization's ability to analytically assess and respond to modern cybersecurity threats while managing risk and maintaining business continuity. Careers in the cyber workforce or information security field include: cyber defense analyst, information security consultant, security administrator, security analyst, security engineer, security auditor, incident responder, penetration tester, vulnerability assessor, support technician, systems administrator, network administrator, and network specialist.

Program Prerequisite

Applicants must have successfully completed the program prerequisites and lower division general education requirements, each with a grade of "C" (or "P") or better:

- San Diego City College's Associate Degree in Cybersecurity, or equivalent, satisfies the program prerequisites required for the Cyber Defense and Analysis Baccalaureate Degree.
- Credit for prior learning or experience working in a cyber defense field may be accepted for course credit upon approval of the program director.
- General education requirements must meet one of the following general education options: the California State University General Education Breadth pattern or the Intersegmental General Education Transfer Curriculum pattern listed in the college catalog.

*Students are recommended to complete CISC 246 for IGETC Area 2A or CSU GE Area B4.

Program Admission

Admission to the Cyber Defense and Analysis program follows a multicriteria screening process.

Minimum Requirements for Baccalaureate Degrees:

All baccalaureate degrees offered by a California Community College must meet the minimum requirements outlined in this section. These requirements are designed to ensure the baccalaureate degrees are equivalent or superior to other baccalaureate degrees offered by other community colleges or universities throughout the United States. Each degree program must include the following:

- A combination of lower division and upper division coursework totaling a minimum of 120 semester or 180 quarter units that are applicable to a baccalaureate degree as defined within these guidelines. A minimum degree requirement of 60 semester credits or 90 quarter units at the associate level.
- At least 36 semester or 54 quarter units of lower division general education is required.
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.
- All courses designated as lower division major requirement must be completed with a grade of "C" (or "P") or better.
- Completion of a minimum of 40 semester or 60 quarter units of upper division courses.
- At least 9 semester or 13.5 quarter units of upper division general education coursework is required.
- The general education requirements are integrated and distributed to both lower and upper division courses.
- All courses designated as an upper division major requirement must be completed with a minimum grade of "C" (or "P") for each course in the major.

Learning Outcome(s):

1. Upon successful program completion, out graduates will apply security principles and practices to maintain operations in the presence of risks and threats.
2. Upon successful program completion, out graduates will function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
3. Upon successful program completion, out graduates will recognize professional responsibilities and make informed judgments in computing practice, taking into account legal, ethical, diversity, equity, inclusion, and accessibility principles consistent with the mission of the institution.
4. Upon successful program completion, out graduates will communicate effectively in a variety of professional contexts.
5. Upon successful program completion, out graduates will design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
6. Upon successful program completion, out graduates will analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

Requirements

Program Prerequisites

CISC 179	Introduction to Python Programming	4.0
INWT 100	Computing Fundamentals (A+)	4.0
INWT 101	Introduction to Information Security	3.0

INWT 120	Network Fundamentals (Network+)	4.0
INWT 125	Cloud+ Certification Training	3.0
INWT 140	Security Fundamentals (Security+)	3.0
INWT 145	Linux Administration (Linux+)	4.0
INWT 170	Network Defense & Countermeasures (CySA+)	3.0
INWT 200	Ethical Hacking and Penetration Testing	4.0

COURSES REQUIRED FOR THE MAJOR:

Units: 54.0

Enrollment in the upper division courses is restricted to students admitted to the Cyber Defense and Analysis program.

BUSE 440	Cyber Law and Ethics	3.0
CISC 450	Security Analytics and Visualization	3.0
ENGL 402	Advanced Technical Writing	3.0
CYDA 400	Emerging Technology and Cybersecurity	3.0
CYDA 410	Modern Cryptography	3.0
CYDA 420	Applied Network Security Monitoring (NSM)	3.0
CYDA 430	Applied Intrusion Detection and Analysis	3.0
CYDA 440	Deconstructing Malware	3.0
CYDA 450	Network Forensics	3.0
CYDA 460	Digital Forensics	3.0
CYDA 500	Cyber Incident Response	3.0
CYDA 510	Disaster Response and Recovery	3.0
CYDA 520	Cyber Threat Intelligence (CTI)	3.0
CYDA 530	Advanced Security Implementation and Management	3.0
CYDA 540	Critical Infrastructure and Supply Chain Protection	3.0
CYDA 550	Systems and Network Auditing	3.0
CYDA 560	Operational Security Architecture	3.0
CYDA 570	Cyber Defense and Analysis Capstone	3.0

Total: 54.0

CYBER OPERATIONS - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Certificate of Performance in Cyber Operations provides an intermediate-level study of cybersecurity blue team and red team methodologies through a curriculum that follows the National Initiative for Cybersecurity Education (NICE) Cybersecurity Workforce Framework with the common goal of developing critical knowledge, skills, and abilities to perform cybersecurity tasks. The curriculum includes simulated scenarios in the domains of system vulnerabilities, managing risk, and responding to cyber incidents. This pathway includes preparation for industry-recognized certifications geared towards preparing students for a successful career in cybersecurity workforce roles that have an impact on an organization's ability to protect its data, systems, and operations.

Note:

The Computer Information Systems department requires student to complete all requirements for the degree within five years.

The Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

*A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Apply security principles and practices to maintain operations in the presence of risks and threats.
2. Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
3. Recognize professional responsibilities and make informed judgments in computing practice, taking into account legal, ethical, diversity, equity, inclusion, and accessibility principles consistent with the mission of the institution.
4. Communicate effectively in a variety of professional contexts.
5. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
6. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 7.0

INWT 170	Network Defense & Countermeasures (CySA+)	3.0
INWT 200	Ethical Hacking and Penetration Testing	4.0

Total: 7.0

CYBERSECURITY - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The Associate of Science in Cybersecurity follows the National Initiative for Cybersecurity Education (NICE) Cybersecurity Workforce Framework and the Department of Defense (DoD) Cyber Workforce Framework (DCWF) with the common goal of developing knowledge, skills, and abilities (KSAs) to perform foundational cybersecurity tasks. The curriculum includes hands-on experience in virtual environments that simulate real-world scenarios in the domains of security provisions, operations and maintenance, governance, protection and defense, analysis, collection, and investigation. This pathway includes preparation for industry-recognized certifications geared towards preparing students for a successful career in cybersecurity workforce roles that have an impact on an organization's ability to protect its data, systems, and operations. Careers in the cyber workforce or information security field include: cyber defense analyst, information security consultant, security administrator, security analyst, security engineer, security auditor, incident responder, penetration tester, vulnerability assessor, support technician, systems administrator, network administrator, and network specialist.

Note:

The Computer Information Systems requires student to complete all requirements for the degree within five years.

*Students are recommended to complete CISC 246 for IGETC Area 2A or CSU GE Area B4.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Upon successful program completion, our graduates will apply security principles and practices to maintain operations in the presence of risks and threats.

2. Upon successful program completion, our graduates will function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
3. Upon successful program completion, our graduates will recognize professional responsibilities and make informed judgments in computing practice, taking into account legal, ethical, diversity, equity, inclusion, and accessibility principles consistent with the mission of the institution.
4. Upon successful program completion, our graduates will communicate effectively in a variety of professional contexts.
5. Upon successful program completion, our graduates will design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
6. Upon successful program completion, our graduates will analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 35.0

CISC 179	Introduction to Python Programming	4.0
INWT 100	Computing Fundamentals (A+)	4.0
INWT 101	Introduction to Information Security	3.0
INWT 120	Network Fundamentals (Network+)	4.0
INWT 125	Cloud+ Certification Training	3.0
INWT 140	Security Fundamentals (Security+)	3.0
INWT 145	Linux Administration (Linux+)	4.0
INWT 170	Network Defense & Countermeasures (CySA+)	3.0
INWT 200	Ethical Hacking and Penetration Testing	4.0
MATH 119	Elementary Statistics	3.0

Total: 35.0

CYBERSECURITY - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Cybersecurity follows the National Initiative for Cybersecurity Education (NICE) Cybersecurity Workforce Framework and the Department of Defense (DoD) Cyber Workforce Framework (DCWF) with the common goal of developing knowledge, skills, and abilities (KSAs) to perform foundational cybersecurity tasks. The curriculum includes hands-on experience in virtual environments that simulate real-world scenarios in the domains of security provisions, operations and maintenance, governance, protection and defense, analysis, collection, and investigation. This pathway includes preparation for industry-recognized certifications geared towards preparing students for a successful career in cybersecurity workforce roles that have an impact on an organization's ability to protect its data, systems, and operations. Careers in the cyber workforce or information security field include: cyber defense analyst, information security consultant, security administrator, security analyst, security engineer, security auditor, incident responder, penetration tester, vulnerability assessor, support technician, systems administrator, network administrator, and network specialist.

Note: The Computer Information Systems department requires student to complete all requirements for the degree within five years.

Learning Outcome(s):

1. Upon successful program completion, our graduates will apply security principles and practices to maintain operations in the presence of risks and threats.
2. Upon successful program completion, our graduates will function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline
3. Upon successful program completion, our graduates will recognize professional responsibilities and make informed judgments in computing practice, taking into account legal, ethical, diversity, equity, inclusion, and accessibility principles consistent with the mission of the institution.

4. Upon successful program completion, our graduates will communicate effectively in a variety of professional contexts.
5. Upon successful program completion, our graduates will design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
6. Upon successful program completion, our graduates will analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 32.0

CISC 179	Introduction to Python Programming	4.0
INWT 100	Computing Fundamentals (A+)	4.0
INWT 101	Introduction to Information Security	3.0
INWT 120	Network Fundamentals (Network+)	4.0
INWT 125	Cloud+ Certification Training	3.0
INWT 140	Security Fundamentals (Security+)	3.0
INWT 145	Linux Administration (Linux+)	4.0
INWT 170	Network Defense & Countermeasures (CySA+)	3.0
INWT 200	Ethical Hacking and Penetration Testing	4.0

Total: 32.0

DANCE - ASSOCIATE OF ARTS DEGREE: CITY

Summary

Courses in choreography, dance history, and global dance traditions, along with technical training and improvisation are among those required for the Associate of Arts degree in Dance. Dance students have opportunities to perform every semester and work closely with the City College Theatre and Musical Theatre departments in productions for public performance. The degree prepares the student with a solid foundation of kinesthetic training in one or more dance genres, principles of choreography and improvisation, and movement education and wellness, along with an emphasis in production and performance. Graduates are qualified to transfer with a major in Dance to UCs and CSUs as well as private colleges and universities. The Associate of Arts in Dance degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this degree should be selected with the assistance of a San Diego City College counselor.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Upon completion the student will be able to demonstrate knowledge of an understanding of choreographic, technical and improvisational elements of dance.
2. Upon completion the student will be able to demonstrate knowledge of aesthetic perception of various dance forms, and critical analysis and response to performance.
3. Upon completion the student will be able to demonstrate knowledge of the history of dance including ballet, modern, jazz, Broadway/musical theatre, and global dance forms of dance.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 16.5

DANC 111	Global Dance Traditions	2.0
DANC 112C	Ballet III	1.5
DANC 112D	Ballet IV	1.5

DANC 142C	Modern Dance III	1.5
DANC 142D	Modern Dance IV	1.5
DANC 176B	Dance Improvisation II	1.5
DANC 181	History of Dance	3.0
DANC 183	Music for Dance	2.0
DANC 253	Choreography	2.0

Select six (6) units from the following:

Units: 6.0

DANC 112A	Ballet I	1.5
DANC 112B	Ballet II	1.5
DANC 117A	Tap Dance I	1.5
DANC 117B	Tap Dance II	1.5
DANC 117C	Tap Dance III	1.5
DANC 117D	Tap Dance IV	1.5
DANC 122A	Hip Hop I	1.5
DANC 122B	Hip Hop II	1.5
DANC 122C	Hip Hop III	1.5
DANC 122D	Hip Hop IV	1.5
DANC 127	Movement for Wellness	2.0
DANC 130A	Dance Repertoire	1.0
DANC 137A	Jazz Dance I	1.5
DANC 137B	Jazz Dance II	1.5
DANC 137C	Jazz Dance III	1.5
DANC 137D	Jazz Dance IV	1.5
DANC 142A	Modern Dance I	1.5
DANC 142B	Modern Dance II	1.5
DANC 150A	Dance Making: Ballet	1.0
DANC 151A	Dance Making: Jazz	1.0
DANC 152A	Dance Making: Modern	1.0
DANC 153A	Dance Making: Dance Theatre	1.0
DANC 160A	Pilates - Stretch and Conditioning	1.0-1.5
DANC 160B	Pilates - Alignment and Correctives	1.0-1.5
DANC 176A	Dance Improvisation	1.5
DANC 178A	Advanced Commercial Dance I	1.5
DANC 178B	Advanced Commercial Dance II	1.5
DANC 179A	Advanced Classical Dance I	1.5
DANC 179B	Advanced Classical Dance II	1.5
DANC 180A	Advanced Contemporary Dance I	1.5
DANC 180B	Advanced Contemporary Dance II	1.5

Select four (4) units from the following:

Units: 4.0

DANC 261A	Dance Performance I	2.0
DANC 261B	Dance Performance II	2.0
DANC 261C	Dance Performance III	2.0
DANC 261D	Dance Performance IV	2.0
DANC 271A	Stage Costuming for Dance	2.0
DANC 271B	Makeup for Dance Productions	2.0
DANC 271C	Lighting Design for Dance Production	2.0
DANC 271D	Sound Design for Dance Production	2.0

Total: 26.5

DANCE - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

Courses in choreography, dance history, and global dance traditions, along with technical training and improvisation are among those required for the Certificate of Achievement in Dance. Dance students have opportunities to perform every semester and work closely with the City College Theatre and Musical Theatre departments in productions for public performance. This certificate prepares the dance student with a solid foundation of kinesthetic training in one or more genres, principles of choreography and improvisation, movement education and wellness, along with an emphasis in performance. Graduates are qualified to work in regional dance theatre, as a professional dancer in industrial work in areas such as Los Angeles, and as a certified dance instructor, or independent choreographer.

Learning Outcome(s):

1. Upon completion the student will be able to demonstrate knowledge of an understanding of choreographic, technical and improvisational elements of dance.
2. Upon completion the student will be able to demonstrate knowledge of aesthetic perception of various dance forms, and critical analysis and response to performance.
3. Upon completion the student will be able to demonstrate knowledge of the history of dance including ballet, modern, jazz, Broadway/musical theatre, and global dance forms of dance.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 16.5

DANC 111	Global Dance Traditions	2.0
DANC 112C	Ballet III	1.5
DANC 112D	Ballet IV	1.5
DANC 142C	Modern Dance III	1.5
DANC 142D	Modern Dance IV	1.5
DANC 176B	Dance Improvisation II	1.5
DANC 181	History of Dance	3.0
DANC 183	Music for Dance	2.0
DANC 253	Choreography	2.0

Select six (6) units from the following:

Units: 6.0

DANC 112A	Ballet I	1.5
DANC 112B	Ballet II	1.5
DANC 117A	Tap Dance I	1.5
DANC 117B	Tap Dance II	1.5
DANC 117C	Tap Dance III	1.5
DANC 117D	Tap Dance IV	1.5
DANC 122A	Hip Hop I	1.5
DANC 122B	Hip Hop II	1.5
DANC 122C	Hip Hop III	1.5
DANC 122D	Hip Hop IV	1.5
DANC 127	Movement for Wellness	2.0
DANC 130A	Dance Repertoire	1.0
DANC 137A	Jazz Dance I	1.5
DANC 137B	Jazz Dance II	1.5
DANC 137C	Jazz Dance III	1.5
DANC 137D	Jazz Dance IV	1.5
DANC 142A	Modern Dance I	1.5

DANC 142B	Modern Dance II	1.5
DANC 150A	Dance Making: Ballet	1.0
DANC 151A	Dance Making: Jazz	1.0
DANC 152A	Dance Making: Modern	1.0
DANC 153A	Dance Making: Dance Theatre	1.0
DANC 160A	Pilates - Stretch and Conditioning	1.0-1.5
DANC 160B	Pilates - Alignment and Correctives	1.0-1.5
DANC 176A	Dance Improvisation	1.5
DANC 179A	Advanced Classical Dance I	1.5
DANC 179B	Advanced Classical Dance II	1.5
DANC 180A	Advanced Contemporary Dance I	1.5
DANC 180B	Advanced Contemporary Dance II	1.5

Select four (4) units from the following:

Units: 4.0

DANC 261A	Dance Performance I	2.0
DANC 261B	Dance Performance II	2.0
DANC 261C	Dance Performance III	2.0
DANC 261D	Dance Performance IV	2.0
DANC 271A	Stage Costuming for Dance	1.0-2.0
DANC 271B	Makeup for Dance Productions	1.0-2.0
DANC 271C	Lighting Design for Dance Production	1.0-2.0
DANC 271D	Sound Design for Dance Production	1.0-2.0

Total: 26.5

DANCE* - CERTIFICATE OF PERFORMANCE: CITY

Summary

Courses in choreography, dance history, and global dance traditions, along with technical training and improvisation are among those required for the Certificate of Performance in Dance. Dance students have opportunities to perform every semester and work closely with the City College Theatre and Musical Theatre departments in production for public performance. This certificate prepares the dance student with a solid foundation of kinesthetic training in one or more idioms, principles of choreography, movement education, along with the process of performance. Graduates are qualified to work in regional dance theatre, as a professional dancer in industrial work in areas such as Los Angeles, and as a certified dance instructor or independent choreographer.

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. Note:**

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Upon completion the student will be able to demonstrate knowledge of an understanding of choreographic, technical and improvisational elements of dance.
2. Upon completion the student will be able to demonstrate knowledge of aesthetic perception of various dance forms, and critical analysis and response to performance.
3. Upon completion the student will be able to demonstrate knowledge of the history of dance including ballet, modern, jazz, Broadway/musical theatre, and global dance forms of dance.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 6.5

DANC 176B	Dance Improvisation II	1.5
DANC 181	History of Dance	3.0
DANC 253	Choreography	2.0

Select 4.5 units from the following:

Units: 4.5

DANC 111	Global Dance Traditions	2.0
DANC 112A	Ballet I	1.5
DANC 112B	Ballet II	1.5
DANC 112C	Ballet III	1.5
DANC 112D	Ballet IV	1.5
DANC 117A	Tap Dance I	1.5
DANC 117B	Tap Dance II	1.5
DANC 117C	Tap Dance III	1.5
DANC 117D	Tap Dance IV	1.5
DANC 122A	Hip Hop I	1.5
DANC 122B	Hip Hop II	1.5
DANC 122C	Hip Hop III	1.5
DANC 122D	Hip Hop IV	1.5
DANC 125A	Latin American Dance I	1.0-1.5
DANC 125B	Latin American Dance II	1.0-1.5
DANC 127	Movement for Wellness	2.0
DANC 137A	Jazz Dance I	1.5
DANC 137B	Jazz Dance II	1.5
DANC 137C	Jazz Dance III	1.5
DANC 137D	Jazz Dance IV	1.5
DANC 142A	Modern Dance I	1.5
DANC 142B	Modern Dance II	1.5
DANC 142C	Modern Dance III	1.5
DANC 142D	Modern Dance IV	1.5
DANC 160A	Pilates - Stretch and Conditioning	1.0-1.5
DANC 160B	Pilates - Alignment and Correctives	1.0-1.5
DANC 180A	Advanced Contemporary Dance I	1.5
DANC 180B	Advanced Contemporary Dance II	1.5

Select four (4) units from the following:

Units: 4.0

DANC 176A	Dance Improvisation	1.5
DANC 150A	Dance Making: Ballet	1.0
DANC 151A	Dance Making: Jazz	1.0
DANC 152A	Dance Making: Modern	1.0
DANC 153A	Dance Making: Dance Theatre	1.0
DANC 183	Music for Dance	2.0
DANC 261A	Dance Performance I	2.0
DANC 261B	Dance Performance II	2.0
DANC 261C	Dance Performance III	2.0
DANC 261D	Dance Performance IV	2.0
DANC 271A	Stage Costuming for Dance	2.0
DANC 271B	Makeup for Dance Productions	2.0
DANC 271C	Lighting Design for Dance Production	2.0

DESKTOP SUPPORT TECHNICIAN I - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Certificate of Performance in Desktop Support Technician I provides students with an introductory level study in administering and supporting computers and operating systems. This curriculum includes hands-on experience in virtual environments that simulate real-world scenarios in installation, administration, and troubleshooting of computer hardware and software. This pathway includes preparation for industry-recognized certifications geared towards preparing students for a successful career in IT roles that are vital for building, protecting, and maintaining information and technology assets.

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.**

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Upon successful completion, out graduates will apply security principles and practices to maintain operations in the presence of risks and threats.
2. Upon successful completion, out graduates will function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
3. Upon successful completion, out graduates will recognize professional responsibilities and make informed judgments in computing practice, taking into account legal, ethical, diversity, equity, inclusion, and accessibility principles consistent with the mission of the institution.
4. Upon successful completion, out graduates will communicate effectively in a variety of professional contexts.
5. Upon successful completion, out graduates will design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
6. Upon successful completion, out graduates will analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

Requirements**COURSES REQUIRED FOR THE MAJOR:****Units: 7.0**

INWT 100	Computing Fundamentals (A+)	4.0
INWT 111	Windows Desktop Administration	3.0

Total: 7.0

DESKTOP SUPPORT TECHNICIAN II - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Desktop Support Technician II provides students with an intermediate level study in administering and supporting computers, operating systems, and networks. This curriculum includes hands-on experience in virtual environments that simulate real-world scenarios in installation, administration, and troubleshooting of computer hardware and software, enterprise networks, and security systems. This pathway includes preparation for industry-recognized certifications geared towards preparing students for a successful career in IT roles that are vital for building, protecting, and maintaining information and technology assets.

Learning Outcome(s):

1. Upon successful completion, out graduates will apply security principles and practices to maintain operations in the presence of risks and threats.
2. Upon successful completion, out graduates will function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
3. Upon successful completion, out graduates will recognize professional responsibilities and make informed judgments in computing practice, taking into account legal, ethical, diversity, equity, inclusion, and accessibility principles consistent with the mission of the institution.
4. Upon successful completion, out graduates will communicate effectively in a variety of professional contexts.
5. Upon successful completion, out graduates will design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
6. Upon successful completion, out graduates will analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 18.0

INWT 100	Computing Fundamentals (A+)	4.0
INWT 111	Windows Desktop Administration	3.0
INWT 120	Network Fundamentals (Network+)	4.0
INWT 140	Security Fundamentals (Security+)	3.0
INWT 145	Linux Administration (Linux+)	4.0

Total: 18.0

DIGITAL PHOTOGRAPHY - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Digital Photography Certificate of Performance prepares students for entry-level employment and/ or self-employment in commercial photography. Emphasis is placed on the fundamentals of digital photography, including capture, image manipulation, retouching, and color management. Students develop a comprehensive portfolio to showcase the technical and creative aspects of their work.

Note:

Faculty recommend students complete classes in the order presented.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Upon successful completion, out graduates will produce professional portfolios suitable for sharing with potential clients or gradschool entrance.
2. Upon successful completion, out graduates will produce professional quality, colorcorrected photographs utilizing archival pigment and chromogenic materials.
3. Upon successful completion, out graduates will create a marketing plan and business materials such as letterhead and business cards.
4. Upon successful completion, out graduates will apply theories and principles of photographic light and lighting control for both film and digital capture.
5. Upon successful completion, out graduates will illustrate abilities in various professional presentation techniques utilizing archival mounting and matting materials.
6. Upon successful completion, out graduates will demonstrate an understanding of the history of photography and the role of photographs in today's society.

7. Upon successful completion, out graduates will utilize Adobe Lightroom and Photoshop in digital color correction and image manipulation.
8. Upon successful completion, out graduates will develop black and white film and make gelatin silver prints in a traditional darkroom.
9. Upon successful completion, out graduates will utilize compositional elements in the creation of original photographs in various formats.
10. Upon successful completion, out graduates will demonstrate competent use of reciprocal exposures utilizing shutter speeds and apertures.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 11.0

Faculty recommend students complete classes in the order presented.

PHOT 143	Introduction to Digital Photography	3.0
PHOT 103	Digital Directed Photo Lab Studies	1.0
PHOT 180	Photo Editing: Lightroom	3.0
PHOT 243	Advanced Digital Photography	3.0
PHOT 224	Color Management for Digital Photography	1.0

Total: 11.0

Drafting Option - Certificate of Achievement: City

The engineering curriculum is heavily based on mathematics and physical sciences. Students benefit by having access to state-of-the-art CAD/ CAM facilities as well as to a high technology center that is at the cutting edge of new technologies, thereby enhancing career choices and rewards. This pre-engineering preparation provides an excellent foundation for transfer to a four-year university as an engineering major.

Award Note:

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Prepare reports using software tools.
2. Demonstrate proficiency in at least one three-dimensional engineering design software.
3. Demonstrate skill in engineering drawing.

COURSES REQUIRED FOR THE MAJOR:

Units: 19.0-14.0

ENGE 108	Dimensioning and Tolerancing	3.0
ENGE 111	Introduction to Computer-Aided Design	3.0
ENGE 151	Computer-Aided Design	2.0
ENGE 152	Engineering Design	3.0
MATH 96	Intermediate Algebra and Geometry	5.0-0.0
ENGL 101	Reading and Composition	3.0

Total: 19.0-14.0

EARLY CARE AND EDUCATION - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The Early Care and Education program includes course work, training, and supervised practicum experiences to meet state licensing requirements for working in centers, schools, child care homes, and service related agencies. Emphasis is placed on current best practices and tools utilized in the field, inquiry, and reflective practice. The skills and knowledge gained in beginning courses provide the framework and foundation for more specialized courses.

The Associate of Science degree in Early Care and Education prepares students for a range of opportunities in the child development and education fields. Course work, training, and supervised practicum experiences provide the foundational knowledge and skills necessary to be successful in the workforce and assist students in expediting the process of meeting requirements for the State of California Child Development Permits and California State Department of Social Services, Title 22, Community Care Licensing.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Students who complete the program will be able to model ethical practices with children, families, colleagues and communities as stated in the NAEYC Code of Ethical Conduct.
2. Students who complete the program will be able to plan and demonstrate curriculum based on developmentally appropriate practices.
3. Students who complete the program will be able to examine practices that respect and support inclusion.
4. Students who complete the program will be able to interpret the processes of child growth and development.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 27.0-30.0

CHIL 100	Principles and Practices of Early Childhood Education	3.0
CHIL 101	Human Growth and Development	3.0
CHIL 133	Curriculum: Language, Literacy, and Art	3.0
CHIL 135	Curriculum: Science, Math, and Music and Movement	3.0
CHIL 141	The Child, Family and Community	3.0
CHIL 160	Observation and Assessment of Children	2.0
CHIL 166	Curriculum for Diverse Learners	3.0
CHIL 180	Nutrition, Health and Safety for Children	3.0
CHIL 151	Program Planning	3.0
		1.0-4.0
CHIL 275	Supervised Field Study	1.0-3.0
OR		
CHIL 270	Work Experience	1.0-4.0

Select three (3) units from the following:

Units: 3.0

CHIL 161	Observations and Issues in Child Development	2.0
CHIL 291A	Child Development Center Practicum	1.0
CHIL 291B	Child Development Center Practicum	1.0
CHIL 291C	Child Development Center Practicum	1.0
CHIL 291D	Child Development Center Practicum	1.0

Total: 30.0-33.0

ECONOMICS - ASSOCIATE IN ARTS FOR TRANSFER DEGREE: CITY

Summary

The Associate in Arts in Economics for Transfer Degree is intended for students who plan to complete a bachelor’s degree in Economics or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. Students who complete this degree and transfer to a participating CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor’s degree. It may not be appropriate preparation for students transferring to a CSU campus that does not accept the degree. Students who plan to complete this degree should consult a counselor for additional information about participating CSU campuses as well as university admission, degree and transfer requirements. NOTE: Students intending to transfer into this

major at a CSU should consult with a counselor and visit www.assist.org for guidance on appropriate transfer coursework.

Award Notes:

The following is required for all AA-T or AS-T degrees:

- Completion of 60 semester units that are eligible for transfer to the California State University
- Completion of a minimum of 18 semester units in an “AA-T” or “AS-T” major.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Minimum grade of “C” or “P” or better for each course in the major. Students should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.

Learning Outcome(s):

1.

Requirements

COURSES REQUIRED FOR THE MAJOR:		Units: 12.0
ECON 120	Principles of Macroeconomics	3.0
ECON 121	Principles of Microeconomics	3.0
MATH 119	Elementary Statistics	3.0
MATH 121	Basic Techniques of Applied Calculus I	3.0

Select one of the following courses (3-5 units):		Units: 3.0-5.0
ACCT 116A	Financial Accounting	4.0
ACCT 116B	Managerial Accounting	4.0
BUSE 119	Business Communications	3.0
CISC 181	Principles of Information Systems	4.0
MATH 116	College and Matrix Algebra	3.0
MATH 122	Basic Techniques of Calculus II	3.0
MATH 150	Calculus with Analytic Geometry I	5.0
MATH 151	Calculus with Analytic Geometry II	4.0

Select one of the following courses not already selected above (3-4 units):		Units: 3.0-4.0
ACCT 116A	Financial Accounting	4.0
ACCT 116B	Managerial Accounting	4.0
BUSE 119	Business Communications	3.0
CISC 181	Principles of Information Systems	4.0
MATH 116	College and Matrix Algebra	3.0
MATH 122	Basic Techniques of Calculus II	3.0
MATH 151	Calculus with Analytic Geometry II	4.0

Total: 18.0-21.0

ECONOMICS - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

This Certificate of Achievement in Economics provides students the opportunity to learn core concepts and gain insight into the field of economics as well as serves as a steppingstone toward higher academic degrees in the field of economics. This award provides students with a pathway towards completing the Associate in Arts in Economics for Transfer Degree.

Learning Outcome(s):

1. Students who complete the program will be able to analyze the impacts of economics on social values and policy.
2. Students who complete the program will be able to utilize the demand and supply model and use the model to critically analyze real world examples.
3. Students who complete the program will be able to outline the role of comparative advantage in exchange.
4. Students who complete the program will be able to explain the role of prices in allocating goods, services and factors of production.
5. Students who complete the program will be able to define scarcity, and show how it relates to the concepts of choice and cost.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 12.0

ECON 120	Principles of Macroeconomics	3.0
ECON 121	Principles of Microeconomics	3.0
MATH 119	Elementary Statistics	3.0
MATH 121	Basic Techniques of Applied Calculus I	3.0

Complete one of the following courses (3 - 5 units):

Units: 3.0-5.0

ACCT 116A	Financial Accounting	4.0
ACCT 116B	Managerial Accounting	4.0
BUSE 119	Business Communications	3.0
CISC 181	Principles of Information Systems	4.0
MATH 116	College and Matrix Algebra	3.0
MATH 122	Basic Techniques of Calculus II	3.0
MATH 150	Calculus with Analytic Geometry I	5.0
MATH 151	Calculus with Analytic Geometry II	4.0

Complete one of the following courses not already completed above (3 - 4 units):

Units: 3.0-4.0

ACCT 116A	Financial Accounting	4.0
ACCT 116B	Managerial Accounting	4.0
BUSE 119	Business Communications	3.0
CISC 181	Principles of Information Systems	4.0
MATH 116	College and Matrix Algebra	3.0
MATH 122	Basic Techniques of Calculus II	3.0
MATH 151	Calculus with Analytic Geometry II	4.0

Total: 18.0-21.0

ELECTRICAL CONTROL SYSTEMS OPTION - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

Electrical Control Systems Option emphasizes the study of electrical control system theory including standard motor controls, transducers, static control devices, programmed controllers, and remote electronic controls.

Learning Outcome(s):

1. Students who complete the program will be able to prepare and apply to take the State of California electrician certification exam.
2. Students who complete the program will be able to demonstrate a basic knowledge of generators and motors.

3. Students who complete the program will be able to evaluate electrical wiring diagrams as they relate to implementation.
4. Students who complete the program will be able to discuss and demonstrate knowledge of safety in the electrical field.
5. Students who complete the program will be able to demonstrate knowledge of electrical codes and blueprints.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 25.0

ELCT 111	Electrical Theory I	3.0
ELCT 111L	Electrical Laboratory I	2.0
ELCT 121	Electrical Theory II	3.0
ELCT 121L	Electrical Laboratory II	2.0
ELCT 131	Electrical Theory III	3.0
ELCT 131L	Electrical Laboratory III	2.0
ELCT 141	Electrical Theory IV	3.0
ELCT 141L	Electrical Laboratory IV	2.0
ELCT 200	Electrical Control Systems	3.0
ELCT 200L	Electrical Control Systems Laboratory	2.0

Total: 25.0

ELECTRICAL RECERTIFICATION PREPARATION - CERTIFICATE OF PERFORMANCE: CITY

Summary

The San Diego Gas and Electric (SDGE) program is designed to provide students with an opportunity to master the skills required for success in the electrical trades. Emphasis is placed on electrical principles and safety on the job in the study of power distribution and line construction industry. Topics include the use of "hot sticks" and special equipment, repair and maintenance of poles and lines, both cold and energized, and safety practices, and the local/state requirements. Students are expected to master competencies, such as those included in elements of electricity, overhead pole and electrical line construction, safety codes and applications, electric power system, transformer and meter installations, and exploration of underground electrical distribution.

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. Note:**

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Students who complete the program will be able to prepare and apply to take the State of California electrician certification exam.
2. Students who complete the program will be able to demonstrate a basic knowledge of generators and motors.
3. Students who complete the program will be able to evaluate electrical wiring diagrams as they relate to implementation.
4. Students who complete the program will be able to discuss and demonstrate knowledge of safety in the electrical field.
5. Students who complete the program will be able to demonstrate knowledge of electrical codes and blueprints.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 9.0

ELCT 20	Blueprint Reading for Electricians	3.0
ELCT 30	Modern Commercial Wiring	3.0
ELCT 40	Data, Voice, and Video Cabling for Electricians	3.0

Total: 9.0

ELECTRICITY - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The San Diego Gas and Electric (SDGE) program is designed to provide students with an opportunity to master the skills required for success in the electrical trades. Emphasis is placed on electrical principles and safety on the job in the study of power distribution and line construction industry. Topics include the use of "hot sticks" and special equipment, repair and maintenance of poles and lines, both cold and energized, and safety practices, and the local/state requirements. Students are expected to master competencies, such as those included in elements of electricity, overhead pole and electrical line construction, safety codes and applications, electric power system, transformer and meter installations, and exploration of underground electrical distribution.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Students who complete the program will be able to prepare and apply to take the State of California electrician certification exam.
2. Students who complete the program will be able to demonstrate a basic knowledge of generators and motors.
3. Students who complete the program will be able to evaluate electrical wiring diagrams as they relate to implementation.
4. Students who complete the program will be able to discuss and demonstrate knowledge of safety in the electrical field.
5. Students who complete the program will be able to demonstrate knowledge of electrical codes and blueprints.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 20.0

ELCT 111	Electrical Theory I	3.0
ELCT 111L	Electrical Laboratory I	2.0
ELCT 121	Electrical Theory II	3.0
ELCT 121L	Electrical Laboratory II	2.0
ELCT 131	Electrical Theory III	3.0
ELCT 131L	Electrical Laboratory III	2.0
ELCT 141	Electrical Theory IV	3.0
ELCT 141L	Electrical Laboratory IV	2.0

Total: 20.0

ELECTRICITY - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The San Diego Gas and Electric (SDGE) program is designed to provide students with an opportunity to master the skills required for success in the electrical trades. Emphasis is placed on electrical principles and safety on the job

in the study of power distribution and line construction industry. Topics include the use of "hot sticks" and special equipment, repair and maintenance of poles and lines, both cold and energized, and safety practices, and the local/state requirements. Students are expected to master competencies, such as those included in elements of electricity, overhead pole and electrical line construction, safety codes and applications, electric power system, transformer and meter installations, and exploration of underground electrical distribution.

Learning Outcome(s):

1. Students who complete the program will be able to prepare and apply to take the State of California electrician certification exam.
2. Students who complete the program will be able to demonstrate a basic knowledge of generators and motors.
3. Students who complete the program will be able to evaluate electrical wiring diagrams as they relate to implementation.
4. Students who complete the program will be able to discuss and demonstrate knowledge of safety in the electrical field.
5. Students who complete the program will be able to demonstrate knowledge of electrical codes and blueprints

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 20.0

ELCT 111	Electrical Theory I	3.0
ELCT 111L	Electrical Laboratory I	2.0
ELCT 121	Electrical Theory II	3.0
ELCT 121L	Electrical Laboratory II	2.0
ELCT 131	Electrical Theory III	3.0
ELCT 131L	Electrical Laboratory III	2.0
ELCT 141	Electrical Theory IV	3.0
ELCT 141L	Electrical Laboratory IV	2.0

Total: 20.0

ELECTROMECHANICAL TECHNOLOGY - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Electromechanical Engineering Technology course of study provides a comprehensive learning environment of both electronic and mechanical principles. Learning emphasis is placed upon the hands-on application and design of electromechanical systems that include analog & digital electronics, engineering design, and computer controlled mechanical systems.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Students who complete the program will be able to demonstrate proficiency in at least one three-dimensional engineering design software.
2. Students who complete the program will be able to identify standard electronic components including resistors, capacitors, inductors, diodes, bipolar transistors, field effect transistors, and integrated circuits.
3. Students who complete the program will be able to demonstrate the proper use of basic electronics test instrumentation including an oscilloscope, a digital volt-ohm meter, a signal generator and a dual power supply.

Requirements

COURSES REQUIRED FOR THE MAJOR:**Units: 15.0**

ELDT 123	Introduction to Digital Circuits	3.0
ELDT 123L	Digital Circuits Laboratory	1.0
ELDT 124	Basic DC Electronics	4.0
ELDT 124L	Basic DC Laboratory	1.0
ENGE 151	Computer-Aided Design	2.0
		4.0
PHYS 100	Introductory Physics	4.0
OR		
		4.0
CHEM 100	Fundamentals of Chemistry	3.0
AND		
CHEM 100L	Fundamentals of Chemistry Laboratory	1.0

Total: 15.0

ELECTRONIC COMMUNICATION SYSTEMS - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The Electronics Program emphasis is on providing the fundamental knowledge needed by a general electronics technician. Ample opportunity for electronics skill development is provided in laboratory courses. Two major areas of emphasis are currently available to the electronics student: microcontroller/microprocessor technology and electronic communication technology. Electronics is a field of technology that is concerned with the installation, operation, repair, maintenance, calibration, modification, and service of electronic circuitry, components, and systems. Technicians often work as part of a design team in industry under the guidance of engineers in preparing prototypes of electronic units or systems. They may check that prototypes are safe work as intended.

Note:

The Associate of Science in Electronic Communication Systems aids students in developing the knowledge, skills, and abilities needed in order to become a proficient electronics technician in the student's desired area of focus. The successful student is proficient with basic electronics measurement instrumentation and understands basic electronics circuitry. In addition to courses and labs, the Associate of Science in Electronic Communication Systems provides an opportunity for interested students to take Electronics Technician Association (ETA) and International Association for Radio, Telecommunication and Electromagnetics (iNARTE) Certification tests.

Students who successfully complete the Associate of Science in Electronic Communication Systems will be able to: Interpret the block diagrams of electronic communication systems. Perform tests to verify the performance of electronic communication systems. Make repairs to correct diagnosed faults in electronic communication systems.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Students who complete the program will be able to demonstrate the ability to prepare reports that include text, tables, and spreadsheets using productivity software on a computer.
2. Students who complete the program will be able to identify standard electronic components including resistors, capacitors, inductors, diodes, bipolar transistors, field effect transistors, and integrated circuits.
3. Students who complete the program will be able to analyze and explain basic electronic theory including Ohm's Law, the power formula, and calculation of voltage gain and power gain.
4. Students who complete the program will be able to demonstrate the proper use of basic electronic test instrumentation including an oscilloscope, a digital volt-ohm meter, a signal generator, and a dual power supply.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 39.0

ELDT 123	Introduction to Digital Circuits	3.0
ELDT 123L	Digital Circuits Laboratory	1.0
ELDT 124	Basic DC Electronics	4.0
ELDT 124L	Basic DC Laboratory	1.0
ELDT 125	AC Circuit Analysis	4.0
ELDT 125L	DC/AC Circuit Analysis Laboratory with Pspice	1.0
ELDT 126	Using C AND C++ for Technology	3.0
ELDT 126L	Using C and C++ for Technology Laboratory	1.0
ELDT 143	Semiconductor Devices	3.0
ELDT 143L	Semiconductor Devices Laboratory	1.5
ELDT 144	OP-AMPS, Sensors and Computers	3.0
ELDT 144L	OP-AMPS and Sensors Laboratory	1.5
ELDT 227	Introduction to Lasers and Fiber Optics	3.0
ELDT 227L	Lasers and Fiber Optics Laboratory	1.0
ELDT 228	Communication Circuits	3.0
ELDT 228L	Communication Circuits and Certification Laboratory	1.0
ELDT 229	Advanced Telecommunications Networks	3.0
ELDT 229L	Advanced Telecommunications Networks Laboratory	1.0

Total: 39.0

ELECTRONIC COMMUNICATION SYSTEMS - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

Electronics is a field of technology that is concerned with the installation, operation, repair, maintenance, calibration, modification, and service of electronic circuitry, components, and systems. This program introduces students to communication theory/circuitry, and reception of AM, FM, and digital signals. Communications links and lasers/fiber optics systems, and local, metropolitan and wide-area networks are also presented.

Note:

Graduates of the Electronics program understand the physical sciences, mathematics, applications, and customer relations necessary in the installation, construction, operation, maintenance, and diagnosis of electronic communication systems.

Students who successfully complete the Electronic Communication Systems certificate will be able to: 1. Interpret the block diagrams of electronic communication systems. 2. Perform tests to verify the performance of electronic communication systems. 3. Make repairs to correct diagnosed faults in electronic communication systems.

Learning Outcome(s):

1. Students who complete the program will be able to demonstrate the ability to prepare reports that include text, tables, and spreadsheets using productivity software on a computer.
2. Students who complete the program will be able to identify standard electronic components including resistors, capacitors, inductors, diodes, bipolar transistors, field effect transistors, and integrated circuits.
3. Students who complete the program will be able to analyze and explain basic electronic theory including Ohm's Law, the power formula, and calculation of voltage gain and power gain.
4. Students who complete the program will be able to demonstrate the proper use of basic electronic test instrumentation including an oscilloscope, a digital volt-ohm meter, a signal generator, and a dual power supply.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 39.0

ELDT 123	Introduction to Digital Circuits	3.0
ELDT 123L	Digital Circuits Laboratory	1.0
ELDT 124	Basic DC Electronics	4.0
ELDT 124L	Basic DC Laboratory	1.0
ELDT 125	AC Circuit Analysis	4.0
ELDT 125L	DC/AC Circuit Analysis Laboratory with Pspice	1.0
ELDT 126	Using C AND C++ for Technology	3.0
ELDT 126L	Using C and C++ for Technology Laboratory	1.0
ELDT 143	Semiconductor Devices	3.0
ELDT 143L	Semiconductor Devices Laboratory	1.5
ELDT 144	OP-AMPS, Sensors and Computers	3.0
ELDT 144L	OP-AMPS and Sensors Laboratory	1.5
ELDT 227	Introduction to Lasers and Fiber Optics	3.0
ELDT 227L	Lasers and Fiber Optics Laboratory	1.0
ELDT 228	Communication Circuits	3.0
ELDT 228L	Communication Circuits and Certification Laboratory	1.0
ELDT 229	Advanced Telecommunications Networks	3.0
ELDT 229L	Advanced Telecommunications Networks Laboratory	1.0

Total: 39.0

ELECTRONIC MICROPROCESSOR/MICROCONTROLLER DESIGN - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The Associate of Science in Electronic Microprocessor/Microcontroller Design prepares the student for entry-level technical positions in the microprocessor/microcontroller field. Emphasis is placed on testing and documenting the performance of microcontroller systems, modifying microcontroller circuits for improved performance, and upgrading older systems to newer technology.

Note:

Students who successfully complete the Associate of Science in Electronic Microprocessor/Microcontroller Design are prepared to: Interpret the block diagrams of microprocessor/microcontroller systems; Modify computer programs for microprocessor/ microcontroller systems; and Develop circuits to interface motors, displays, sensors, and switching to microprocessor/ microcontroller systems.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Students who complete the program will be able to demonstrate the ability to prepare reports that include text, tables, and spreadsheets using productivity software on a computer.
2. Students who complete the program will be able to identify standard electronic components including resistors, capacitors, inductors, diodes, bipolar transistors, field effect transistors, and integrated circuits.
3. Students who complete the program will be able to analyze and explain basic electronic theory including Ohm's Law, the power formula, and calculation of voltage gain and power gain.
4. Students who complete the program will be able to demonstrate the proper use of basic electronic test instrumentation including an oscilloscope, a digital volt-ohm meter, a signal generator, and a dual power supply.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 37.0

ELDT 123	Introduction to Digital Circuits	3.0
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ELDT 123L	Digital Circuits Laboratory	1.0
ELDT 124	Basic DC Electronics	4.0
ELDT 124L	Basic DC Laboratory	1.0
ELDT 125	AC Circuit Analysis	4.0
ELDT 125L	DC/AC Circuit Analysis Laboratory with Pspice	1.0
ELDT 126	Using C AND C++ for Technology	3.0
ELDT 126L	Using C and C++ for Technology Laboratory	1.0
ELDT 143	Semiconductor Devices	3.0
ELDT 143L	Semiconductor Devices Laboratory	1.5
ELDT 144	OP-AMPS, Sensors and Computers	3.0
ELDT 144L	OP-AMPS and Sensors Laboratory	1.5
ELDT 225	Microcontrollers	3.0
ELDT 225L	Microcontrollers Laboratory	1.5
ELDT 232	Advanced Computer Design and Interfacing	4.0
ELDT 232L	Advanced Computer Designs Laboratory	1.5

Total: 37.0

ELECTRONIC MICROPROCESSOR/MICROCONTROLLER DESIGN - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Electronic Microprocessor/Microcontroller Design prepares the student for entry-level technical positions in the microprocessor/microcontroller field. Emphasis is placed on testing and documenting the performance of microcontroller systems, modifying microcontroller circuits for improved performance, and upgrading older systems to newer technology.

Notes:

Students who successfully complete the Certificate of Achievement in Electronic Microprocessor/Microcontroller Design are prepared to: Interpret the block diagrams of microprocessor/microcontroller systems; Modify computer programs for microprocessor/ microcontroller systems; and Develop circuits to interface motors, displays, sensors, and switching to microprocessor/ microcontroller systems.

The Electronics Department requires students to complete all requirements for the certificate within five years.

Learning Outcome(s):

1. Students who complete the program will be able to demonstrate the ability to prepare reports that include text, tables, and spreadsheets using productivity software on a computer.
2. Students who complete the program will be able to identify standard electronic components including resistors, capacitors, inductors, diodes, bipolar transistors, field effect transistors, and integrated circuits.
3. Students who complete the program will be able to analyze and explain basic electronic theory including Ohm's Law, the power formula, and calculation of voltage gain and power gain.
4. Students who complete the program will be able to demonstrate the proper use of basic electronic test instrumentation including an oscilloscope, a digital volt-ohm meter, a signal generator, and a dual power supply.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 37.0

The Electronics Department requires students to complete all requirements for the certificate within five years.

ELDT 123	Introduction to Digital Circuits	3.0
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ELDT 123L	Digital Circuits Laboratory	1.0
ELDT 124	Basic DC Electronics	4.0
ELDT 124L	Basic DC Laboratory	1.0
ELDT 125	AC Circuit Analysis	4.0
ELDT 125L	DC/AC Circuit Analysis Laboratory with Pspice	1.0
ELDT 126	Using C AND C++ for Technology	3.0
ELDT 126L	Using C and C++ for Technology Laboratory	1.0
ELDT 143	Semiconductor Devices	3.0
ELDT 143L	Semiconductor Devices Laboratory	1.5
ELDT 144	OP-AMPS, Sensors and Computers	3.0
ELDT 144L	OP-AMPS and Sensors Laboratory	1.5
ELDT 225	Microcontrollers	3.0
ELDT 225L	Microcontrollers Laboratory	1.5
ELDT 232	Advanced Computer Design and Interfacing	4.0
ELDT 232L	Advanced Computer Designs Laboratory	1.5

Total: 37.0

ELECTRONICS - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

This certificate of achievement provides basic preparation for electronic technicians.

Learning Outcome(s):

1. Students who complete the program will be able to demonstrate the ability to prepare reports that include text, tables, and spreadsheets using productivity software on a computer.
2. Students who complete the program will be able to identify standard electronic components including resistors, capacitors, inductors, diodes, bipolar transistors, field effect transistors, and integrated circuits.
3. Students who complete the program will be able to analyze and explain basic electronic theory including Ohm's Law, the power formula, and calculation of voltage gain and power gain.
4. Students who complete the program will be able to demonstrate the proper use of basic electronic test instrumentation including an oscilloscope, a digital volt-ohm meter, a signal generator, and a dual power supply.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 27.0

ELDT 123	Introduction to Digital Circuits	3.0
ELDT 123L	Digital Circuits Laboratory	1.0
ELDT 124	Basic DC Electronics	4.0
ELDT 124L	Basic DC Laboratory	1.0
ELDT 125	AC Circuit Analysis	4.0
ELDT 125L	DC/AC Circuit Analysis Laboratory with Pspice	1.0
ELDT 126	Using C AND C++ for Technology	3.0
ELDT 126L	Using C and C++ for Technology Laboratory	1.0
ELDT 143	Semiconductor Devices	3.0
ELDT 143L	Semiconductor Devices Laboratory	1.5
ELDT 144	OP-AMPS, Sensors and Computers	3.0
ELDT 144L	OP-AMPS and Sensors Laboratory	1.5

Total: 27.0

ELECTRONICS MANUFACTURING - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Electronics Manufacturing prepares the student for entry-level technician positions in the manufacturing or industrial technology fields with particular focus on electronics. Emphasis is placed on students learning and being able to use design tools and test equipment used in the electronics industry for product development and manufacturing.

Note:

Students who successfully complete the Certificate of Achievement in Electronics Manufacturing are prepared to: Utilize and operate various test equipment, and use measurement results to support product development; Demonstrate the knowledge of design tools used in electronics industry for product development; Identify and apply quality control tools used in electronics manufacturing industry; Explain and apply the fundamentals of electronics applications and theory; and Describe different types of materials, process flows, equipment and techniques used to manufacture electronics products.

Learning Outcome(s):

1. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to describe different types of materials, process flows, equipment and techniques used in manufacturing.
2. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to demonstrate proficiency in programming and operation of NC/CNC equipment.
3. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to identify and apply quality control tools and instruments used in a manufacturing environment.
4. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to explain product design to optimize manufacturing efficiency.
5. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to identify and utilize CAD/CAM applications in various manufacturing processes.
6. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to describe different types of materials, process flows, equipment and techniques used to manufacture electronics products.
7. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to explain and apply the fundamentals of electronics applications and theory.
8. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to identify and apply quality control tools used in electronics manufacturing industry.
9. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to demonstrate the knowledge of design tools used in electronics industry for product development.
10. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to utilize, operate and measure the results of various test equipment to support product development.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 28.0

MFET 101	Introduction to Manufacturing Engineering Technology	3.0
MFET 105	Print Reading and Symbology	3.0
MFET 110	Industrial Safety	2.0
MFET 115	Properties of Materials	3.0

MFET 120	Manufacturing Processes	4.0
MFET 150	Manufacturing Automation	3.0
MFET 210	Statistical Process Control	3.0
MFET 230	Lean Manufacturing	3.0
ELDT 123	Introduction to Digital Circuits	3.0
ELDT 123L	Digital Circuits Laboratory	1.0

Total: 28.0

ELECTRONICS TECHNICIAN LEVEL I - CERTIFICATE OF PERFORMANCE: CITY

Summary

Certificate of Performance for entry level electronics technician.

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. Note:**

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Students who complete the program will be able to demonstrate the ability to prepare reports that include text, tables, and spreadsheets using productivity software on a computer
2. Students who complete the program will be able to identify standard electronic components including resistors, capacitors, inductors, diodes, bipolar transistors, field effect transistors, and integrated circuits.
3. Students who complete the program will be able to analyze and explain basic electronic theory including Ohm's Law, the power formula, and calculation of voltage gain and power gain.
4. Students who complete the program will be able to demonstrate the proper use of basic electronic test instrumentation including an oscilloscope, a digital volt-ohm meter, a signal generator, and a dual power supply

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 14.0

ELDT 123	Introduction to Digital Circuits	3.0
ELDT 123L	Digital Circuits Laboratory	1.0
ELDT 124	Basic DC Electronics	4.0
ELDT 124L	Basic DC Laboratory	1.0
ELDT 125	AC Circuit Analysis	4.0
ELDT 125L	DC/AC Circuit Analysis Laboratory with Pspice	1.0

Total: 14.0

ENERGY ANALYSIS AND CONSULTATION - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The Associate of Science in Energy Analysis and Consultation provides students with a comprehensive education in energy retrofits, green building construction, and building operations. This curriculum prepares students for a career in the clean energy industry specific to the built environment. This course of study covers topics ranging from energy auditing, energy efficiency, solar energy retrofits, green construction, HVAC integration, and zero-net

energy design. This pathway includes preparation for industry-recognized certifications geared towards leading businesses in the energy efficiency and renewable energy industry.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Students who successfully complete the award will be able to evaluate renewable energy and energy storage technology, performance, benefits, and costs.
2. Students who successfully complete the award will be able to identify relevant building codes that govern energy efficiency, energy systems, and green buildings; and
3. Students who successfully complete the award will be able to apply various types of energy ratings and performance metrics;
4. Students who successfully complete the award will be able to describe the relationship between energy use and society;
5. Students who successfully complete the award will be able to compare and contrast the advantages and disadvantages of energy resources in terms of the effects on the environment;
6. Students who successfully complete the award will be able to evaluate current issues and technologies regarding greenhouse gases, indoor air quality, building decarbonization, and the ozone layer;
7. Students who successfully complete the award will be able to recognize conservation strategies and energy saving measures by examining the house-as-a-system.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 24.0

EGEE 50	Building Science Principles	3.0
EGEE 55	Air Quality Management and Systems	3.0
EGEE 70	Energy Industry Principles	3.0
EGEE 72	Energy Conservation Strategies	3.0
EGEE 78	Solar Electric Systems	3.0
EGEE 80	Energy Storage	3.0
EGEE 85	Energy Standard Practice	3.0
EGEE 98	Energy Service Entrepreneurship	3.0

Total: 24.0

ENERGY ANALYSIS AND CONSULTATION - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Associate of Science in Energy Analysis and Consultation provides students with a comprehensive education in energy retrofits, green building construction, and building operations. This curriculum prepares students for a career in the clean energy industry specific to the built environment. This course of study covers topics ranging from energy auditing, energy efficiency, solar energy retrofits, green construction, HVAC integration, and zero-net energy design. This pathway includes preparation for industry-recognized certifications geared towards leading businesses in the energy efficiency and renewable energy industry.

Learning Outcome(s):

1. Students who successfully complete the award will be able to evaluate renewable energy and energy storage technology, performance, benefits, and costs.
2. Students who successfully complete the award will be able to identify relevant building codes that govern energy efficiency, energy systems, and green buildings; and
3. Students who successfully complete the award will be able to apply various types of energy ratings and performance metrics;
4. Students who successfully complete the award will be able to describe the relationship between energy use and society;

5. Students who successfully complete the award will be able to compare and contrast the advantages and disadvantages of energy resources in terms of the effects on the environment;
6. Students who successfully complete the award will be able to evaluate current issues and technologies regarding greenhouse gases, indoor air quality, building decarbonization, and the ozone layer;
7. Students who successfully complete the award will be able to recognize conservation strategies and energy saving measures by examining the house-as-a-system.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 24.0

EGEE 50	Building Science Principles	3.0
EGEE 55	Air Quality Management and Systems	3.0
EGEE 70	Energy Industry Principles	3.0
EGEE 72	Energy Conservation Strategies	3.0
EGEE 78	Solar Electric Systems	3.0
EGEE 80	Energy Storage	3.0
EGEE 85	Energy Standard Practice	3.0
EGEE 98	Energy Service Entrepreneurship	3.0

Total: 24.0

ENGINEERING - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The engineering curriculum is heavily based on mathematics and physical sciences. Students benefit by having access to state-of-the-art CAD/ CAM facilities as well as to a high technology center that is at the cutting edge of new technologies, thereby enhancing career choices and rewards. This pre-engineering preparation provides an excellent foundation for transfer to a four-year university as an engineering major.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Students who complete the program will be able to describe the engineering field from a general perspective.
2. Students who complete the program will be able to demonstrate proficiency in analytical problem solving skills.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 33.0

CHEM 200	General Chemistry I - Lecture	3.0
CHEM 200L	General Chemistry I - Laboratory	2.0
MATH 150	Calculus with Analytic Geometry I	5.0
MATH 151	Calculus with Analytic Geometry II	4.0
MATH 252	Calculus with Analytic Geometry III	4.0
PHYS 195	Mechanics	5.0
PHYS 196	Electricity and Magnetism	5.0
PHYS 197	Waves, Optics and Modern Physics	5.0

Total: 33.0

ENGLISH - ASSOCIATE IN ARTS FOR TRANSFER DEGREE: CITY

Summary

Program Description

The Associate in Arts in English for Transfer Degree is intended for students who plan to complete a bachelor's degree in English or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. Students who complete this degree and transfer to a participating CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor's degree. It may not be appropriate preparation for students transferring to a CSU campus that does not accept the degree. Students who plan to complete this degree should consult a counselor for additional information about participating CSU campuses as well as university admission, degree, and transfer requirements.

NOTE: Students intending to transfer into this major at a CSU should consult with a counselor and visit www.assist.org for guidance on appropriate transfer coursework.

Award Notes: General Education: In addition to the courses listed above, students must complete one of the following general education options:

- The IGETC pattern is accepted by all CSU campuses and most UC campuses and majors. It is also accepted by some private/ independent or out of state universities.
- The CSU GE pattern is accepted by all CSU campuses and some private/independent or out of state universities. It is not accepted by the UC system. It is strongly recommended that students consult with a counselor to determine which general education option is most appropriate for their individual educational goals.

The following is required for all AA-T or AS-T degrees:

- Completion of 60 CSU-transferable semester units. No more than 60 units are required.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major (see list below). All courses in the major must be completed with a grade of "C" or "P" or better. • Certified completion of the California State University General Education-Breadth pattern; OR the Intersegmental General Education Transfer Curriculum pattern

Award Notes:

The following is required for all AA-T or AS-T degrees:

- Completion of 60 semester units that are eligible for transfer to the California State University
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Minimum grade of "C" or "P" or better for each course in the major. Students should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.

Learning Outcome(s):

1. Students who complete the program will be able to apply strategies both inside and outside the classroom that reflect an understanding of the reading and writing processes in order to become life-long learners, critical thinkers, and active citizens.
2. Students who complete the program will be able to describe, explain, and analyze multiple perspectives on issues in ways that demonstrate global awareness and appreciation of diversity in its many manifestations.
3. Students who complete the program will be able to apply appropriate research strategies and citation formats.
4. Students who complete the program will be able to organize ideas and information and express them clearly and effectively in writing for both academic and workplace contexts for different communicative purposes.
5. Students who complete the program will be able to read and comprehend texts, recognize author strategies, purpose, perspective, and argument, and use critical thinking to evaluate a variety of writing.

Requirements

COURSES REQUIRED FOR THE MAJOR: **Units: 6.0**

ENGL 205	Critical Thinking and Intermediate Composition	3.0
ENGL 208	Introduction to Literature	3.0

Select four courses (12 units) from the following: **Units: 12.0**

(It is recommended that students select courses that meet lower division major preparation requirements for their transfer university)

ENGL 210	American Literature I	3.0
ENGL 211	American Literature II	3.0
ENGL 215	English Literature I: 800-1799	3.0
ENGL 216	English Literature II: 1800 - Present	3.0
ENGL 220	Masterpieces of World Literature I: 1500 BCE - 1600 CE	3.0
ENGL 221	Masterpieces of World Literature II: 1600 - Present	3.0
ENGL 249A	Introduction to Creative Writing I	3.0

Total: 18.0

ENGLISH - ASSOCIATE OF ARTS DEGREE: CITY

Summary

English 205 meets SDSU/CSU critical thinking requirement. Not all courses are offered at each campus. For graduation requirements see Academic Requirements section of catalog. The associate degree requires a minimum of 60 units. Transferable Units as Prep for the Major at SDSU: SDSU will accept a total of 12 units of literature and creative writing as preparation for the English Major. This includes any combination of lower division literature courses and up to six units of creative writing courses. Note: English 215 and 216 are required by SDSU and UCSD. Other course electives are available at Mesa and Miramar Colleges.

Note: English 205 meets SDSU/CSU critical thinking requirement.

English 215 and 216 are required by SDSU and UCSD. Other course electives are available at Mesa and Miramar Colleges.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Students who complete the program will be able to apply strategies both inside and outside the classroom that reflect an understanding of the reading and writing processes in order to become life-long learners, critical thinkers, and active citizens.
2. Students who complete the program will be able to describe, explain, and analyze multiple perspectives on issues in ways that demonstrate global awareness and appreciation of diversity in its many manifestations.
3. Students who complete the program will be able to apply appropriate research strategies and citation formats.
4. Students who complete the program will be able to organize ideas and information and express them clearly and effectively in writing for both academic and workplace contexts for different communicative purposes.
5. Students who complete the program will be able to read and comprehend texts, recognize author strategies, purpose, perspective, and argument, and use critical thinking to evaluate a variety of writing.

Requirements

COURSES REQUIRED FOR THE MAJOR: **Units: 12.0**

ENGL 101	Reading and Composition	3.0
OR		3.0
ENGL 105	Composition and Literature	3.0
ENGL 205	Critical Thinking and Intermediate Composition	3.0
ENGL 215	English Literature I: 800-1799	3.0
ENGL 216	English Literature II: 1800 - Present	3.0

Select three units from the following (recommended sequence for UC transfer): **Units: 3.0**

ENGL 208	Introduction to Literature	3.0
ENGL 220	Masterpieces of World Literature I: 1500 BCE - 1600 CE	3.0
ENGL 221	Masterpieces of World Literature II: 1600 - Present	3.0

Select three units from the following (recommended sequence for UC transfer): **Units: 3.0**

ENGL 210	American Literature I	3.0
ENGL 211	American Literature II	3.0
ENGL 245A	Writing Creative Nonfiction	3.0
ENGL 247A	Writing Seminar - Poetry	3.0
ENGL 249A	Introduction to Creative Writing I	3.0
ENGL 252A	Fundamentals of Fiction Writing	3.0

Total: 18.0

ENGLISH LANGUAGE ACQUISITION - CERTIFICATE OF PERFORMANCE: CITY

Summary

The English Language Acquisition (ELAC) Certificate of Performance recognizes an advanced level of English language achievement for students whose first language is not English. Students who earn this certificate have successfully completed advanced ELAC coursework in grammar, writing conventions, reading skills, and critical thinking.

Note:

Upon successful completion of the Certificate of Performance, students should be able to: Analyze and synthesize the written works of others and compose an organized, multi-paragraph piece in response. Revise and reflect on own written work that demonstrates an advanced level of reading, writing, and critical thinking.

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. Note:**

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Read and comprehend texts, recognize author strategies, purpose, perspective and argument, and use critical thinking to evaluate a variety of writing.
2. Apply strategies both inside and outside the classroom that reflect an understanding of the reading and writing processes in order to become life-long learners, critical thinkers, and active citizens.
3. Organize ideas and information and express them clearly and effectively in writing for both academic and workplace contexts for different communicative purposes.

- Describe, explain, and analyze multiple perspectives on issues in ways that demonstrate global awareness and appreciation of diversity in its many manifestations.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 6.0

ELAC 145	Integrated Reading, Writing, and Grammar III	6.0
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Select three units from the following:

Units: 3.0

ELAC 5B	English Language Grammar - High-Intermediate/Advanced	1.0-2.0
ELAC 7	English Pronunciation	1.0-2.0
ELAC 33	Academic Listening and Speaking II	3.0

Total: 9.0

ESTHETICIAN - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Cosmetology program is designed to provide entry level skills to students interested in a career in the cosmetology and esthetician professions. California State law requires that persons enrolling in Cosmetology courses must be at least sixteen years of age. Students in the Cosmetology program are required to comply with and maintain standards of dress and grooming. Excessive absences may result in exclusion from the program. All prospective students are required to attend an orientation program. ORIENTATION: Orientation is mandatory prior to registration. Contact Cosmetology Department for schedule of days and times. It is highly recommended that a student complete the placement exams in order to meet the reading and writing advisories. Students should bring a copy of placement test scores to orientation. PROGRAM ENROLLMENT: Program add codes are required for continuing students for spring, summer and fall semesters. Course work from other Cosmetology programs will not clear City College course work. New students can start mid semester every fall, spring, summer. Program vacancies are filled by students from a waiting list. Students are required to purchase all textbooks, uniforms, practical kits, tools and small manually handled equipment. PROGRAM HOURS: Cosmetology courses are offered during the day and evening. FULL-TIME PROGRAM: The schedule of lecture and lab hours varies per semester. NOTE: A nine-week summer session is offered. STATE BOARD VERIFICATION: Students with previous course hours in Cosmetology from another community college program must provide written State Board documentation. These courses cannot be used for the major. The California State Board of Barbering and Cosmetology requires 1600 hours of instruction for Cosmetology or 600 hours of instruction for Esthetics, both careers require a passing score on the State Board examination to become licensed and eligible for employment. Students participate in practical and theoretical training under the supervision of a State-licensed and community-college-credentialed instructor at all times while enrolled in the program.

Learning Outcome(s):

- Upon successful completion of the Cosmetology program the student will be able to apply cosmetology products and procedures in providing services to clients.
- Upon successful completion of the Cosmetology program the student will be able to compare and contrast cosmetology procedures and practices.
- Upon successful completion of the Cosmetology program the student will be able to explain basic cosmetology concepts, terms and definitions.
- Upon successful completion of the Cosmetology program the student will be able to perform all practical applications required for the state board examination/state licensure.
- Upon successful completion of the Cosmetology program the student will be able to utilize professional practice terminology and techniques as required by the California Bureau of Cosmetology examination.
- Upon successful completion of the Cosmetology program the student will be able to practice safety, health, and sanitation procedures as set forth by the California Bureau of Cosmetology.
- Upon successful completion of the Cosmetology program the student will be able to apply cosmetology concepts, procedures and practices to successfully pass the State Board Examination.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 18.0

COSM 55	Esthetician I	2.5
COSM 55L	Esthetician I Lab	6.5
COSM 65	Esthetician II	2.5
COSM 65L	Esthetician II Lab	6.5

Total: 18.0

ESTHETICIAN BUSINESS ADMINISTRATION - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

San Diego City College's Cosmetology Program prepares students professionally in several aspects of the beauty industry. We provide students with every opportunity to succeed in the training program and to increase the student's opportunity for successfully passing the California State Board of Cosmetology licensing exam. Our students receive the technical foundation in an environment that nurtures the true artist within to build their business skills and help them with networking and job placement in the industry. The integration of theoretical principles and practical laboratory courses provides students with an authentic experience to gain and demonstrate skills that exceed job-market standards and preparation for the California State Board of Barbering and Cosmetology licensure exam. Throughout the program, students benefit from critical, constructive feedback from faculty who not only meet qualifications for teaching at the community college level but also possess a state cosmetologist license and have salon, spa, and business experience in the field. Supervised practice begins on mannequin heads and hands and culminates with working on real-live models and clients in San Diego City College's salon and spa. Students train with professional equipment and products and learn how to conduct effective client consultations to create extraordinary guest-service experiences. Upon successful completion of the Cosmetology Program, students are armed with a robust portfolio and professional resume that allows them to enter the job market with confidence.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Upon successful completion of the Cosmetology program the student will be able to apply cosmetology products and procedures in providing services to clients.
2. Upon successful completion of the Cosmetology program the student will be able to compare and contrast cosmetology procedures and practices.
3. Upon successful completion of the Cosmetology program the student will be able to explain basic cosmetology concepts, terms and definitions.
4. Upon successful completion of the Cosmetology program the student will be able to perform all practical applications required for the state board examination/state licensure.
5. Upon successful completion of the Cosmetology program the student will be able to utilize professional practice terminology and techniques as required by the California Bureau of Cosmetology examination.
6. Upon successful completion of the Cosmetology program the student will be able to practice safety, health, and sanitation procedures as set forth by the California Bureau of Cosmetology.
7. Upon successful completion of the Cosmetology program the student will be able to apply cosmetology concepts, procedures and practices to successfully pass the State Board Examination.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 30.0

COSM 55	Esthetician I	2.5
COSM 55L	Esthetician I Lab	6.5
COSM 65	Esthetician II	2.5

COSM 65L	Esthetician II Lab	6.5
BUSE 92	Introduction to Business Communication	3.0
OR		
BUSE 119	Business Communications	3.0
BUSE 155	Small Business Management	3.0
BUSE 157	Developing a Plan for the Small Business	3.0
DRAM 124	Makeup for the Stage	3.0

Total: 30.0

FABRICATION MANUFACTURING - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Fabrication Manufacturing prepares the student for entry-level technician positions in the manufacturing or industrial technology fields with particular focus on fabrication. Emphasis is placed on students learning and being able to use design tools and test equipment used in industry for product development and manufacturing.

Note:

Students who successfully complete the Certificate of Achievement in Fabrication Manufacturing are prepared to: Utilize and operate various test equipment, and use measurement results to support product development; Demonstrate the knowledge of design tools used in industry for product development; Identify and apply quality control tools used in manufacturing industries; Explain and apply the fundamentals of manufacturing applications and theory; and Describe different types of materials, process flows, equipment and techniques used to manufacture products.

Learning Outcome(s):

1. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to describe different types of materials, process flows, equipment and techniques used in manufacturing.
2. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to demonstrate proficiency in programming and operation of NC/CNC equipment.
3. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to identify and apply quality control tools and instruments used in a manufacturing environment.
4. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to explain product design to optimize manufacturing efficiency.
5. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to identify and utilize CAD/CAM applications in various manufacturing processes.
6. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to describe different types of materials, process flows, equipment and techniques used to manufacture electronics products.
7. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to explain and apply the fundamentals of electronics applications and theory.
8. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to identify and apply quality control tools used in electronics manufacturing industry.

9. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to demonstrate the knowledge of design tools used in electronics industry for product development.
10. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to utilize, operate and measure the results of various test equipment to support product development.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 32.0

MFET 101	Introduction to Manufacturing Engineering Technology	3.0
MFET 105	Print Reading and Symbology	3.0
MFET 110	Industrial Safety	2.0
MFET 115	Properties of Materials	3.0
MFET 120	Manufacturing Processes	4.0
MFET 150	Manufacturing Automation	3.0
MFET 210	Statistical Process Control	3.0
MFET 230	Lean Manufacturing	3.0
MACT 150	Intro/Computer Numerical Control (CNC)	4.0
MACT 160M	Introduction to CAD/CAM	4.0

Total: 32.0

FILM PRODUCTION - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The Associate of Science Degree in Film Production offers hands-on training and experience in the fundamentals of filmmaking, using current and emerging multimedia tools and technologies in our state-of-the-art facilities. The program emphasis is placed on producing, writing, directing, and editing. Other topics addressed include lighting, art directing, and audio. Students can contribute to the award-winning City Times Media platform and its independent film partner. This program is designed for students interested in enhancing their skills and knowledge of filmmaking, students majoring in Film Production, and for those seeking entry-level employment in related industries. The skills acquired with this A.S. Degree may lead to employment, freelance work, or business ownership. These jobs include, but are not limited to, production assistants, production audio technicians, art directors, screenwriters, directors, producers, editors, grips, and gaffers.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 18.0

FJMP 100	Introduction to Cinema	3.0
OR		
FJMP 101	Introduction to Mass Media	3.0
FJMP 110	Introduction to Video Editing	3.0
FJMP 120	Introduction to Screenwriting	3.0
FJMP 112	Introduction to Audio Production	3.0
OR		
FJMP 124	Video Motion Graphics	3.0

		3.0
FJMP 121	Fiction Film Production	3.0
OR		
FJMP 122	Documentary Film Production	3.0
		3.0
FJMP 145	Art Direction for Film and Media Production	3.0
OR		
FJMP 146	Lighting for Film and Media Production	3.0

Complete three (3) units from the following:

Units: 3.0

FJMP 111	Single Camera Production	3.0
FJMP 123	The Producer's Role in Film	3.0
DRAM 119	Film and Television Performance	3.0
FJMP 211	Single Camera Production Workshop	3.0
FJMP 221	Fiction Film Production Workshop	3.0
FJMP 222	Documentary Film Production Workshop	3.0

Total: 21.0

FILM PRODUCTION - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Film Production offers hands-on training and experience in the fundamentals of filmmaking, using current and emerging multimedia tools and technologies in our state-of-the-art facilities. The program emphasis is placed on producing, writing, directing, and editing. Other topics addressed include lighting, art directing, and audio. Students can contribute to the award-winning City Times Media platform and its independent film partner. This program is designed for students interested in enhancing their skills and knowledge of filmmaking, students majoring in Film Production, and for those seeking entry-level employment in related industries. The skills acquired with this certificate may lead to employment, freelance work, or business ownership. These jobs include, but are not limited to, production assistants, production audio technicians, art directors, screenwriters, directors, producers, editors, grips, and gaffers.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 15.0

FJMP 110	Introduction to Video Editing	3.0
FJMP 120	Introduction to Screenwriting	3.0
		3.0
FJMP 112	Introduction to Audio Production	3.0
OR		
FJMP 124	Video Motion Graphics	3.0
		3.0
FJMP 121	Fiction Film Production	3.0
OR		
FJMP 122	Documentary Film Production	3.0
		3.0
FJMP 145	Art Direction for Film and Media Production	3.0
OR		

FJMP 146	Lighting for Film and Media Production	3.0
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Complete three (3) units from the following:

Units: 3.0

FJMP 111	Single Camera Production	3.0
FJMP 123	The Producer's Role in Film	3.0
DRAM 119	Film and Television Performance	3.0
FJMP 211	Single Camera Production Workshop	3.0
FJMP 221	Fiction Film Production Workshop	3.0
FJMP 222	Documentary Film Production Workshop	3.0

Total: 18.0

FILM PRODUCTION - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Certificate of Performance in Film Production offers study in the theory and practice of planning, writing, producing, directing and editing for motion picture film. The program emphasis is placed on script writing, pre-producing, pre-visual development, camera operation, sound operation, and editing for both fiction and documentary film. Other topics addressed include film distribution, copyright and career development in filmmaking. This program is designed for students interested in enhancing their skills and knowledge of film making, students majoring in film production and for those seeking entry-level employment in film production.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Upon successful completion of one of the degrees and/or certificates the student should be able to apply principles of diversity, equity, and media law and ethics.
2. Upon successful completion of one of the degrees and/or certificates the student should be able to conduct research and evaluate information by methods appropriate to the media professions in which they work.
3. Upon successful completion of one of the degrees and/or certificates the student should be able to write in forms and styles appropriate for media professions, audiences, and purposes they serve.
4. Upon successful completion of one of the degrees and/or certificates the student should be able to apply tools and technologies appropriate for the media professions in which they work.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 3.0

RTVF 160	Introduction to Cinema	3.0
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Select six units from the following:

Units: 6.0

RTVF 110	Introduction to Scriptwriting	3.0
RTVF 111	Producing for On Location Filming	3.0
RTVF 112	Documentary Film Production	3.0
RTVF 126	Art Direction for Film and Television	3.0
RTVF 128	Lighting for Television and Film	3.0
RTVF 153	Introduction to Nonlinear Editing	3.0
RTVF 167	Motion Picture Production	3.0

Total: 9.0

Summary

Program Description

The Associate in Science in Radio, Film, and Electronic Media for Transfer Degree is intended for students who plan to complete a bachelor's degree in Radio, Film, and Electronic Media or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. Students who complete this degree and transfer to a participating CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor's degree. It may not be appropriate preparation for students transferring to a CSU campus that does not accept the degree. Students who plan to complete this degree should consult a counselor for additional information about participating CSU campuses as well as university admission, degree and transfer requirements. NOTE: Students intending to transfer into this major at a CSU should consult with a counselor and visit www.assist.org for guidance on appropriate transfer coursework.

Award Notes:

General Education: In addition to the courses listed below, students must complete one of the following general education options:

- The IGETC pattern is accepted by all CSU campuses and most UC campuses and majors. It is also accepted by some private/ independent or out of state universities.
- The CSU GE pattern is accepted by all CSU campuses and some private/independent or out of state universities. It is not accepted by the UC system. It is strongly recommended that students consult with a counselor to determine which general education option is most appropriate for their individual educational goals.

The following is required for all AA-T or AS-T degrees:

- Completion of 60 CSU-transferable semester units. No more than 60 units are required.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major. All courses in the major must be completed with a grade of "C" or "P" or better.
- Certified completion of the California State University General Education-Breadth pattern; OR the Intersegmental General Education Transfer Curriculum pattern.

Award Notes:

The following is required for all AA-T or AS-T degrees:

- Completion of 60 semester units that are eligible for transfer to the California State University
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Minimum grade of "C" or "P" or better for each course in the major. Students should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 6.0

SELECT TWO COURSES (6 UNITS) FROM THE FOLLOWING:

FJMP 100	Introduction to Cinema	3.0
FJMP 101	Introduction to Mass Media	3.0
FJMP 120	Introduction to Screenwriting	3.0

Select One Course (3 Units) from Audio **Units: 3.0**

FJMP 112	Introduction to Audio Production	3.0
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Select One Course (3 units) from Video or Film Production **Units: 3.0**

FJMP 111	Single Camera Production	3.0
FJMP 144	Multi-Camera Studio Operations	3.0

SELECT A MINIMUM OF TWO COURSES (6 UNITS) NOT ALREADY SELECTED **Units: 6.0**

ABOVE:

DRAM 105	Introduction to Dramatic Arts	3.0
DRAM 107	Study of Filmed Plays	3.0
FJMP 100	Introduction to Cinema	3.0
FJMP 101	Introduction to Mass Media	3.0
FJMP 111	Single Camera Production	3.0
FJMP 120	Introduction to Screenwriting	3.0
FJMP 144	Multi-Camera Studio Operations	3.0
MUSI 100	Introduction to Music	3.0

Total: 18.0

FREELANCE PHOTOGRAPHY - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Freelance Photography provides students with strong foundational coursework, emphasizing photographic concepts and camera handling techniques needed to enter the field. Students benefit from instructors who are working professionals in the field. Students receive hands-on experience in studio practices and current industry software to create projects for the real world. The award culminates in a professional portfolio that could be used to obtain employment. The award is primarily designed for students interested in entering the photography field and for students pursuing entry-level job opportunities related to photography. With an emphasis on process, conceptual strategy, and professional practices, students are given broad opportunities to develop a unique voice, vision, and viewpoint. Working with photography and illustration, students create images to illustrate a client's needs. Using both print and digital formats they produce projects that demonstrate an understanding of visual communication. This diverse body of work is refined into a strategic professional portfolio aimed at accomplishing each student's educational and employment goals.

Learning Outcome(s):

1. Upon successful completion students will be able to produce professional portfolios suitable for sharing with potential clients or gradschool entrance.
2. Upon successful completion students will be able to produce professional quality, colorcorrected photographs utilizing archival pigment and chromogenic materials.
3. Upon successful completion students will be able to create a marketing plan and business materials such as letterhead and business cards.
4. Upon successful completion students will be able to apply theories and principles of photographic light and lighting control for both film and digital capture.
5. Upon successful completion students will be able to illustrate abilities in various professional presentation techniques utilizing archival mounting and matting materials.
6. Upon successful completion students will be able to demonstrate an understanding of the history of photography and the role of photographs in today's society.

7. Upon successful completion students will be able to utilize Adobe Lightroom and Photoshop in digital color correction and image manipulation.
8. Upon successful completion students will be able to develop black and white film and make gelatin silver prints in a traditional darkroom.
9. Upon successful completion students will be able to utilize compositional elements in the creation of original photographs in various formats.
10. Upon successful completion students will be able to demonstrate competent use of reciprocal exposures utilizing shutter speeds and apertures.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 23.0

The Photography Department requires students to complete all requirements for the degree within five years.

PHOT 125	Photo Business Operations	2.0
PHOT 143	Introduction to Digital Photography	3.0
PHOT 150	History of Photography	3.0
PHOT 165	Online Portfolio: Websites for Photographers	3.0
PHOT 180	Photo Editing: Lightroom	3.0
PHOT 181	Photo Editing: Photoshop	3.0
PHOT 201A	Photographic Lighting Techniques I	3.0
PHOT 259A	Photographic Portfolio I	3.0

Total: 23.0

FREELANCE PHOTOGRAPHY - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Freelance Photography Certificate of Performance prepares students for entry-level employment and/or self-employment in commercial photography. Emphasis is placed on the fundamentals of digital photography, photography business best practices, image manipulation and retouching, and the award culminates in the development of a comprehensive online portfolio to showcase the technical and creative aspects of the student's work.

Note:

Faculty recommend PHOT 143 be taken in the first semester. *A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Upon successful completion students will be able to produce professional portfolios suitable for sharing with potential clients or gradschool entrance.
2. Upon successful completion students will be able to produce professional quality, colorcorrected photographs utilizing archival pigment and chromogenic materials.
3. Upon successful completion students will be able to create a marketing plan and business materials such as letterhead and business cards.
4. Upon successful completion students will be able to apply theories and principles of photographic light and lighting control for both film and digital capture.

5. Upon successful completion students will be able to illustrate abilities in various professional presentation techniques utilizing archival mounting and matting materials.
6. Upon successful completion students will be able to demonstrate an understanding of the history of photography and the role of photographs in today's society.
7. Upon successful completion students will be able to utilize Adobe Lightroom and Photoshop in digital color correction and image manipulation.
8. Upon successful completion students will be able to develop black and white film and make gelatin silver prints in a traditional darkroom.
9. Upon successful completion students will be able to utilize compositional elements in the creation of original photographs in various formats.
10. Upon successful completion students will be able to demonstrate competent use of reciprocal exposures utilizing shutter speeds and apertures.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 11.0

Faculty recommend PHOT 143 be taken in the first semester.

PHOT 125	Photo Business Operations	2.0
PHOT 143	Introduction to Digital Photography	3.0
PHOT 180	Photo Editing: Lightroom	3.0
PHOT 165	Online Portfolio: Websites for Photographers	3.0

Total: 11.0

FRENCH - ASSOCIATE OF ARTS DEGREE: CITY

Summary

The study of languages provides communication skills, provides exposure to the richness of cultural variety, increases transfer options to universities with language requirements, opens new career opportunities, enriches global travel, and provides personal enrichment. The program is designed to prepare students for transfer to a baccalaureate institution and for proficiency in a language in a variety of settings.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Students who complete the program will be able to accept and value other peoples.
2. Students who complete the program will be able to read and analyze writings in Foreign Language target areas.
3. Students who complete the program will be able to discuss the social and cultural life of Foreign Language speakers in the target language.
4. Students who complete the program will be able to demonstrate accurate foreign language grammar including writing, speaking, and listening in the target language.
5. Students who complete the program will be able to demonstrate preparedness for successful transition to the language program of four year institutions.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 26.0

FREN 101	First Course in French	5.0
FREN 102	Second Course in French	5.0
FREN 201	Third Course in French	5.0
FREN 202	Fourth Course in French	5.0

FREN 210	Conversation and Composition in French I	3.0
FREN 211	Conversation and Composition French II	3.0

Total: 26.0

Fundamentals of Economics - Certificate of Performance: City

This Certificate of Performance in Economics provides students the opportunity to learn core concepts and gain insight into the field of economics as well as serves as a stepping stone toward higher academic degrees in the field of economics. ECON 120 and ECON 121 provides students a comprehensive introduction to the field of economics and fulfills the lower division general education requirements for the CSU GE Breadth pattern, IGETC pattern, and SDCCD General Education requirement for an associate degree.

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. Note:**

This program is not eligible for federal financial aid in accordance with Federal regulations. Note: ECON 120 and ECON 121 fulfills the lower division general education requirements for the CSU GE Breadth pattern, IGETC pattern, and SDCCD General Education requirement for an associate degree.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

COURSES REQUIRED FOR THE MAJOR:

Units: 6.0

ECON 120	Principles of Macroeconomics	3.0
ECON 121	Principles of Microeconomics	3.0

ECON 120 and ECON 121 fulfills the lower division general education requirements for the CSU GE Breadth pattern, IGETC pattern, and SDCCD General Education requirement for an associate degree.

Total: 6.0

GAME PROGRAMMING - CERTIFICATE OF PERFORMANCE: CITY

Summary

The goal of the Certificate of Performance in Game Programming is to prepare students for entry-level employment in the field of Information Technology as computer game programmers. The Certificate of Performance in Game Programming is designed to provide students with training in the theory and practice of computer programming emphasizing the design of software games. The Computer Information Systems Department requires students to complete all course requirements for the certificate within five years.

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.**

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Upon successful program completion, our graduates will apply security principles and practices to maintain operations in the presence of risks and threats.

2. Upon successful program completion, our graduates will function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
3. Upon successful program completion, our graduates will recognize professional responsibilities and make informed judgments in computing practice, taking into account legal, ethical, diversity, equity, inclusion, and accessibility principles consistent with the mission of the institution.
4. Upon successful program completion, our graduates will communicate effectively in a variety of professional contexts.
5. Upon successful program completion, our graduates will design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
6. Upon successful program completion, our graduates will analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 8.0

The Computer Information Systems Department requires students to complete all course requirements for the certificate within five years.

CISC 220	Fundamentals of Computer Game Programming	4.0
CISC 221	Intermediate Computer Game Programming	4.0

Total: 8.0

GENERAL BIOLOGY TRACK - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

Biology is a natural science that focuses on physical and chemical processes of living organisms. This discipline explores how organisms acquire and use energy to maintain homeostasis, how they reproduce, and how they interact with each other and their environment. Scientific processes are emphasized as a means of answering these biological questions. Biologists rely heavily on a chemistry foundation since living organisms are chemical systems.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Student satisfying prerequisites of nursing programs and other allied health fields will also be able to demonstrate a working knowledge of microbial systems, their role in Nature and their impact on humans.
2. Student satisfying prerequisites of nursing programs and other allied health fields will also be able to demonstrate a detailed mastery of human body structure and function, from micro- to macroscopic levels, including its homeostatic states and processes.
3. All Biology students will be able to describe the relationship between the processes of science, human culture and the environment.
4. All Biology students will be able to evaluate the quality of scientific methodology when it is reported by the popular media.
5. All Biology students will be able to apply core biological concepts that service as the foundation for higher-level science courses. These include theories of evolution, natural selection, processes of scientific inquiry, and proper laboratory techniques, among others.
6. All Biology students will be able to:

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 23.0-24.0

BIOL 210A	Introduction to the Biological Sciences I	4.0
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BIOL 210B	Introduction to the Biological Sciences II	4.0
CHEM 200	General Chemistry I - Lecture	3.0
CHEM 200L	General Chemistry I - Laboratory	2.0
CHEM 201	General Chemistry II - Lecture	3.0
CHEM 201L	General Chemistry II - Laboratory	2.0
		5.0-6.0
		6.0
MATH 121	Basic Techniques of Applied Calculus I	3.0
AND		
MATH 122	Basic Techniques of Calculus II	3.0
OR		
MATH 150	Calculus with Analytic Geometry I	5.0

Total: 23.0-24.0

GEOGRAPHY - ASSOCIATE IN ARTS FOR TRANSFER DEGREE: CITY

Summary

The Associate in Arts in Geography for Transfer Degree is intended for students who plan to complete a bachelor's degree in Geography or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. Students who complete this degree and transfer to a participating CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor's degree. It may not be appropriate preparation for students transferring to a CSU campus that does not accept the degree. Students who plan to complete this degree should consult a counselor for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

Award Notes:

The following is required for all AA-T or AS-T degrees:

- Completion of 60 semester units that are eligible for transfer to the California State University
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Minimum grade of "C" or "P" or better for each course in the major. Students should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.

Learning Outcome(s):

1. Upon successful completion students will be able to utilize critical thinking skills in a variety of scientific applications.
2. Upon successful completion students will be able to examine the universe in a variety of courses.
3. Upon successful completion students will be able to communicate an understanding of the connections between science and other human activities.
4. Upon successful completion students will be able to demonstrate an understanding and appreciation of the scientific method.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 7.0

		4.0
GEOG 101	Physical Geography	3.0

AND GEOG 101L	Physical Geography Laboratory	1.0
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GEOG 102	Cultural Geography	3.0
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Select two courses (6 semester units) Units: 6.0

It is recommended that students select courses that meet lower division major preparation requirements for their transfer university.

GEOG 104	World Regional Geography	3.0
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		3.0
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GISG 110	Introduction to Mapping and Geographic Information Systems	3.0
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OR		
GISG 104	Geographic Information Science and Spatial Reasoning	3.0

Select two of the following courses if not selected above(minimum 6 semester units) Units: 6.0-10.0

It is recommended that students select courses that meet lower division major preparation requirements for their transfer university.

ANTH 102	Introduction to Biological Anthropology	3.0
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ANTH 103	Introduction to Cultural Anthropology	3.0
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BIOL 107	General Biology-Lecture and Laboratory	4.0
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		5.0
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CHEM 200	General Chemistry I - Lecture	3.0
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AND		
CHEM 200L	General Chemistry I - Laboratory	2.0

		5.0
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CHEM 201	General Chemistry II - Lecture	3.0
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AND		
CHEM 201L	General Chemistry II - Laboratory	2.0

		2.0
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GEOL 100	Physical Geology	3.0
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GEOL 101	Physical Geology Laboratory	1.0
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MATH 119	Elementary Statistics	3.0
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PHYS 125	General Physics	5.0
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PHYS 126	General Physics II	5.0
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Total: 19.0-23.0

GEOGRAPHY - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

Physical and cultural geography, including remote sensing, cartography, and geographic information science, are disciplines classified as geography. They generally involve the principles of fundamental relationships and laws in the universe and the culture interactions in a spatial setting.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Upon successful completion students will be able to utilize critical thinking skills in a variety of scientific applications.
2. Upon successful completion students will be able to examine the universe in a variety of courses.
3. Upon successful completion students will be able to communicate an understanding of the connections between science and other human activities.
4. Upon successful completion students will be able to demonstrate an understanding and appreciation of the scientific method.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 13.0

GEOG 101	Physical Geography	3.0
GEOG 101L	Physical Geography Laboratory	1.0
GEOG 102	Cultural Geography	3.0
ECON 120	Principles of Macroeconomics	3.0
ECON 121	Principles of Microeconomics	3.0

Select eight units from:

Units: 8.0

		1.0-5.0
BIOL 107	General Biology-Lecture and Laboratory	4.0
OR		
CHEM 100	Fundamentals of Chemistry	3.0
OR		
CHEM 100L	Fundamentals of Chemistry Laboratory	1.0
OR		
CHEM 200	General Chemistry I - Lecture	3.0
OR		
CHEM 200L	General Chemistry I - Laboratory	2.0
OR		
MATH 107	Introduction to Scientific Programming	3.0
OR		
MATH 107L	Introduction to Scientific Programming Lab	1.0
OR		
MATH 119	Elementary Statistics	3.0
OR		
MATH 121	Basic Techniques of Applied Calculus I	3.0
OR		
MATH 150	Calculus with Analytic Geometry I	5.0
OR		
POLI 102	Introduction to American Government	3.0
OR		
PSYC 258	Behavioral Science Statistics	3.0

Total: 21.0

GEOLOGY - ASSOCIATE IN SCIENCE FOR TRANSFER DEGREE: CITY

Summary

The Associate in Science in Geology for Transfer Degree is intended for students who plan to complete a bachelor's degree in Geology or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. Students who complete this degree and transfer to a participating CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor's degree. It may not be appropriate preparation for students transferring to a CSU campus that does not accept the degree. Students who

plan to complete this degree should consult a counselor for additional information about participating CSU campuses as well as university admission, degree and transfer requirements. NOTE: Students intending to transfer into this major at a CSU should consult with a counselor and visit www.assist.org for guidance on appropriate transfer coursework.

Award Notes:

The following is required for all AA-T or AS-T degrees:

- Completion of 60 semester units that are eligible for transfer to the California State University
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Minimum grade of "C" or "P" or better for each course in the major. Students should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.

Learning Outcome(s):

1. Upon successful completion students will be able to utilize critical thinking skills in a variety of scientific applications.
2. Upon successful completion students will be able to examine the universe in a variety of courses.
3. Upon successful completion students will be able to communicate an understanding of the connections between science and other human activities.
4. Upon successful completion students will be able to demonstrate an understanding and appreciation of the scientific method.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 27.0

GEOL 100	Physical Geology	3.0
GEOL 101	Physical Geology Laboratory	1.0
GEOL 111	Dinosaurs, Mass Extinctions, and Earth History	4.0
CHEM 200	General Chemistry I - Lecture	3.0
CHEM 200L	General Chemistry I - Laboratory	2.0
CHEM 201	General Chemistry II - Lecture	3.0
CHEM 201L	General Chemistry II - Laboratory	2.0
MATH 150	Calculus with Analytic Geometry I	5.0
MATH 151	Calculus with Analytic Geometry II	4.0

Total: 27.0

GEOLOGY - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

Geology is the study of the history and structure of the Earth (and other worlds), as well as the physical processes that act upon the world. It is a field that uncovers fundamental relationships and laws in the universe.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Upon successful completion students will be able to utilize critical thinking skills in a variety of scientific applications.
2. Upon successful completion students will be able to examine the universe in a variety of courses.
3. Upon successful completion students will be able to communicate an understanding of the connections between science and other human activities.

4. Upon successful completion students will be able to demonstrate an understanding and appreciation of the scientific method.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 33.0-38.0

GEOL 100	Physical Geology	3.0
GEOL 101	Physical Geology Laboratory	1.0
BIOL 107	General Biology-Lecture and Laboratory	4.0
CHEM 200	General Chemistry I - Lecture	3.0
CHEM 200L	General Chemistry I - Laboratory	2.0
CHEM 201	General Chemistry II - Lecture	3.0
CHEM 201L	General Chemistry II - Laboratory	2.0
MATH 150	Calculus with Analytic Geometry I	5.0
		10.0-15.0
		10.0
PHYS 181A	General Physics Laboratory I	1.0
AND		
PHYS 181B	General Physics Laboratory II	1.0
AND		
PHYS 180A	General Physics I	4.0
AND		
PHYS 180B	General Physics II	4.0
OR		
		15.0
PHYS 195	Mechanics	5.0
AND		
PHYS 196	Electricity and Magnetism	5.0
AND		
PHYS 197	Waves, Optics and Modern Physics	5.0

Total: 33.0-38.0

GERMAN - ASSOCIATE OF ARTS DEGREE: CITY

Summary

The study of languages provides communication skills, provides exposure to the richness of cultural variety, increases transfer options to universities with language requirements, opens new career opportunities, enriches global travel, and provides personal enrichment. The program is designed to prepare students for transfer to a baccalaureate institution and for proficiency in a language in a variety of settings.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Students who complete the program will be able to accept and value other peoples.
2. Students who complete the program will be able to read and analyze writings in Foreign Language target areas.
3. Students who complete the program will be able to discuss the social and cultural life of Foreign Language speakers in the target language.
4. Students who complete the program will be able to demonstrate accurate foreign language grammar including writing, speaking, and listening in the target language.
5. Students who complete the program will be able to demonstrate preparedness for successful transition to the language program of four year institutions.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 21.0

GERM 101	First Course in German	5.0
GERM 102	Second Course in German	5.0
GERM 201	Third Course in German	5.0
GERM 210	German Conversation and Composition I	3.0
GERM 211	German Conversation and Composition II	3.0

Total: 21.0

GERONTOLOGY - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The certificate of Achievement in Gerontology is designed to introduce students to the field of social gerontology. The program provides information on psychological, sociological, and biological aspects of aging and offers students insights into their own aging process as well as that of the growing population of older adults. By the middle of the 21st century, 1 in 5 Americans will be over 65, and there will be 15 to 18 million persons over the age of 85. These forecasts are expected to result in demand for career opportunities in gerontology across many disciplines and professions. This program is both vocational and academic, offering courses in theoretical and practical topics related to human aging.

Learning Outcome(s):

1. Students who complete the program will be able to make a report of an incident or suspected incident of an abuse/neglect of dependent adults and elders.
2. Students who complete the program will be able to recognize and identify risk of caregiver stress, particularly in caring for individuals suffering from Alzheimer's and other dementia.
3. Students who complete the program will be able to identify and make referral to appropriate services.
4. Students who complete the program will be able to identify and compare the various public benefits available through local, state, federal, public assistance programs.
5. Students who complete the program will be able to recognize, identify, assess, and address key concepts in aging (e.g., physical and mental health, exercise, nutrition, the normal aging process, etc.) affecting optimal aging and older adulthood functioning.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 18.0-20.0

HUMS 95	Public Assistance and Benefits Program	1.0
HUMS 101	Introduction to Human Aging	3.0
HUMS 103	Introduction to Community Health Work	3.0
HUMS 110	Social Work Fields of Service	3.0
HUMS 276	Field Work in Gerontological Services	2.0-4.0
PSYC 111	Psychological/Social Aspects of Aging, Death, and Dying	3.0
PSYC 230	Psychology of Lifespan Development	3.0

Total: 18.0-20.0

GRAPHIC DESIGN - ASSOCIATE OF ARTS DEGREE: CITY

Summary

Graphic design is a field that uses visual communication and conceptual strategy to solve graphic problems. The program starts with strong foundational coursework and an early emphasis on typography and design principles. Guided by instructors who are working professionals, students use current industry software and processes to

create professional design projects. With an emphasis on process, conceptual strategy, and professional practices, students are given broad opportunities to develop a unique voice, vision, and viewpoint. Using both print and digital formats, students produce projects that demonstrate an understanding of visual communication through brand strategy, interaction design, and typographic systems. The program culminates in a professional body of work that could be used to obtain employment or transfer to a four-year design program.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 24.0

The Design Department requires students to complete all requirements for the award within seven years.

DSGN 100	Introduction to Graphic Design	3.0
DSGN 102	Digital Media I	3.0
DSGN 104	Graphic Design History	3.0
DSGN 106	Typography I	3.0
		3.0
DSGN 120	Illustration	3.0
OR		
ARTF 174A	Book Arts I	3.0
DSGN 124	Page Layout	3.0
DSGN 206	Typography II	3.0
DSGN 210	Branding and Packaging	3.0

Complete three additional courses from the following:

Units: 9.0

DSGN 120	Illustration	3.0
ARTF 174A	Book Arts I	3.0
DSGN 143	Interaction Design I	3.0
DSGN 153	Interaction Design II	3.0
DSGN 202	Digital Media II	3.0
DSGN 203	Interaction Design III	3.0
DSGN 213	Interaction Design IV	3.0
DSGN 216A	Design Studio I	3.0
DSGN 216B	Design Studio II	3.0
DSGN 216C	Design Studio III	3.0
DSGN 218	Internship	3.0
		3.0-6.0
DSGN 222	Book Arts II	3.0
OR		
		6.0
DSGN 248	Portfolio I	3.0
AND		
DSGN 258	Portfolio II	3.0

Total: 33.0

GRAPHIC DESIGN - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

Graphic design is a field that uses visual communication and conceptual strategy to solve graphic problems. The program starts with strong foundational coursework and an early emphasis on typography and design principles. Guided by instructors who are working professionals, students use current industry software and processes to create professional design projects. With an emphasis on process, conceptual strategy, and professional practices, students are given broad opportunities to develop a unique voice, vision, and viewpoint. Using both print and digital formats, students produce projects that demonstrate an understanding of visual communication through brand strategy, interaction design, and typographic systems. The program culminates in a professional body of work that could be used to obtain employment or transfer to a four-year design program.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 24.0

The Design Department requires students to complete all requirements for the certificate within seven years.

DSGN 100	Introduction to Graphic Design	3.0
DSGN 102	Digital Media I	3.0
DSGN 104	Graphic Design History	3.0
DSGN 106	Typography I	3.0
		3.0
DSGN 120	Illustration	3.0
OR		
ARTF 174A	Book Arts I	3.0
DSGN 124	Page Layout	3.0
DSGN 206	Typography II	3.0
DSGN 210	Branding and Packaging	3.0

Complete two additional courses from the following:

Units: 6.0

DSGN 120	Illustration	3.0
ARTF 174A	Book Arts I	3.0
DSGN 143	Interaction Design I	3.0
DSGN 153	Interaction Design II	3.0
DSGN 202	Digital Media II	3.0
DSGN 203	Interaction Design III	3.0
DSGN 213	Interaction Design IV	3.0
DSGN 216A	Design Studio I	3.0
DSGN 216B	Design Studio II	3.0
DSGN 216C	Design Studio III	3.0
DSGN 218	Internship	3.0
		3.0-6.0
DSGN 222	Book Arts II	3.0
OR		
		6.0
DSGN 248	Portfolio I	3.0
AND		
DSGN 258	Portfolio II	3.0

Total: 30.0

GRAPHIC DESIGN FUNDAMENTALS - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

This Graphic Design Fundamentals Certificate of Achievement provides students with foundational graphic design skills and knowledge. Using current industry software, students combine graphics, images, and typography, to represent ideas and messages. This award gives students a basic understanding of visual communication and software that can be applied to non-design careers.

Note:

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Note:

This program is not eligible for federal financial aid in accordance with Federal regulations.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 12.0

DSGN 100	Introduction to Graphic Design	3.0
DSGN 102	Digital Media I	3.0
DSGN 104	Graphic Design History	3.0
DSGN 106	Typography I	3.0

Total: 12.0

GREEN BUILDING ENERGY PROFESSIONAL - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The Associate of Science in Green Building Energy Professional provides students with a whole systems approach to construction and building operations that minimizes the large impact that our built environment has on our environment, as well as the benefits of zero-net energy design and construction. The pathway includes preparation for various industry-recognized certifications pertaining to the HVAC/R and energy industries.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Upon successfully completing this award the students will be able to examine energy storage technology performance, benefits, and costs.
2. Upon successfully completing this award the students will be able to identify relevant electrical and building codes that govern photovoltaic (pv) systems at various locations; and
3. Upon successfully completing this award the students will be able to distinguish between various applications for lighting;
4. Upon successfully completing this award the students will be able to distinguish various types of appliances by energy ratings and performance;
5. Upon successfully completing this award the students will be able to explore energy efficiency in various energy conversion devices;
6. Upon successfully completing this award the students will be able to examine the relationship between energy use and society;
7. Upon successfully completing this award the students will be able to examine evolving technologies and implementation challenges to manage and meet growing energy demands;
8. Upon successfully completing this award the students will be able to compare and contrast the advantages and disadvantages of energy resources in terms of the effects on the environment;
9. Upon successfully completing this award the students will be able to evaluate current issues and concerns regarding indoor air quality, the ozone layer, and computer technology in the environment;
10. Upon successfully completing this award the students will be able to recognize conservation strategies and energy saving measures by examining the house-as-a-system;
11. Upon successfully completing this award the students will be able to explain the role of mechanical systems and their relationship to building performance

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 18.0

EGEE 50	Building Science Principles	3.0
EGEE 55	Air Quality Management and Systems	3.0
EGEE 70	Energy Industry Principles	3.0
EGEE 72	Energy Conservation Strategies	3.0
EGEE 78	Solar Electric Systems	3.0
EGEE 80	Energy Storage	3.0

Total: 18.0

GREEN BUILDING ENERGY PROFESSIONAL - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Green Building Energy Professional provides students with a whole systems approach to construction and building operations that minimizes the large impact that our built environment has on our environment, as well as the benefits of zero-net energy design and construction. The pathway includes preparation for various industry-recognized certifications pertaining to the HVAC/R and energy industries.

Learning Outcome(s):

1. Upon successfully completing this award the students will be able to examine energy storage technology performance, benefits, and costs.
2. Upon successfully completing this award the students will be able to identify relevant electrical and building codes that govern photovoltaic (pv) systems at various locations; and
3. Upon successfully completing this award the students will be able to distinguish between various applications for lighting;
4. Upon successfully completing this award the students will be able to distinguish various types of appliances by energy ratings and performance;
5. Upon successfully completing this award the students will be able to explore energy efficiency in various energy conversion devices;
6. Upon successfully completing this award the students will be able to examine the relationship between energy use and society;
7. Upon successfully completing this award the students will be able to examine evolving technologies and implementation challenges to manage and meet growing energy demands;
8. Upon successfully completing this award the students will be able to compare and contrast the advantages and disadvantages of energy resources in terms of the effects on the environment;
9. Upon successfully completing this award the students will be able to evaluate current issues and concerns regarding indoor air quality, the ozone layer, and computer technology in the environment;
10. Upon successfully completing this award the students will be able to recognize conservation strategies and energy saving measures by examining the house-as-a-system;
11. Upon successfully completing this award the students will be able to explain the role of mechanical systems and their relationship to building performance

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 18.0

EGEE 50	Building Science Principles	3.0
EGEE 55	Air Quality Management and Systems	3.0
EGEE 70	Energy Industry Principles	3.0
EGEE 72	Energy Conservation Strategies	3.0
EGEE 78	Solar Electric Systems	3.0
EGEE 80	Energy Storage	3.0

HEALTH AND WELLNESS COACHING - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Health and Wellness Coaching certificate prepares the student for the American Council on Exercise's (ACE) national certification examination for health coaching. This is a valuable supplemental certificate to a personal training or group exercise certification. The Certificate of Performance in Health and Wellness Coaching is designed to prepare students for careers in health and wellness coaching. Emphasis is placed on providing students with effective communication strategies for explaining and applying the basic principles of physiology and nutrition, as well as emotional, spiritual, social, cognitive, and environmental health. Students create and implement safe and effective healthy eating strategies and exercise plans based on client assessment data. Students also demonstrate effective approaches to modifying behavior-change programs to promote program adherence based on client needs. Upon successful completion of this program, the student is able to apply knowledge and skill in communication, behavior change, nutrition, weight management, exercise program development, exercise leadership, and disease/injury prevention to health and wellness coaching clients. To be eligible to take the American Council on Exercise National Certification Examination in Health Coaching, students need to have completed one of the following: Pass an accredited certification exam through the National Commission for Certifying Agencies (NCCA); Obtain a license in fitness, nutrition, health care, wellness, human resources or a related field; Earn an associate's degree or higher from an accredited college or university in fitness, exercise science, nutrition, health care, wellness, human resources or a related field; Complete at least two years of comparable work experience in any of the industries specified above.

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. Note:**

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Personal Trainer: Upon successful completion the student will possess an applied understanding of physiology, kinesiology and nutrition as it applies to physical fitness. Students will demonstrate the ability to create safe and effective exercise/fitness programs for individuals or groups that meet the needs of the target audience.
2. Health: Upon successful completion the student will be able to identify the various dimensions of wellness, their interaction with one another, and then utilize strategies to create balance and successfully navigate life.
3. Exercise Science: Upon successful completion the student will improve in one or more of the 5 "Health-Related" Components of Fitness.
4. Athletics: Upon successful completion the student/athlete will improve their level of physical fitness, develop greater skill, and improve in the mental, psychological, and social aspects of their sport. They will create an educational plan with a counselor and develop recruiting tools to aid in transfer to a four year institution.

Requirements**COURSES REQUIRED FOR THE MAJOR:****Units: 9.0-11.0**

EXSC 294	Health and Wellness Coaching	3.0
		2.0-3.0
EXSC 284	Fitness and Sports Nutrition	2.0
OR		
NUTR 170	Nutrition and Fitness	3.0
HEAL 101	Health and Lifestyle	3.0

EXSC 270	Exercise Science Internship / Work Experience	1.0-2.0
Complete one (1) unit from the following:		Units: 1.0
EXSC 123	Adapted Physical Fitness	0.5-1.0
EXSC 124A	Core and Cardio Fitness I	0.5-1.0
EXSC 125A	Aerobic Dance I	0.5-1.0
EXSC 126A	Cardio Conditioning I	0.5-1.0
EXSC 127A	Cardio Kickboxing I	0.5-1.0
EXSC 129A	Step Aerobics I	0.5-1.0
EXSC 134	Adapted Weight Training	0.5-1.0
EXSC 135A	Individual Conditioning I	0.5-1.0
EXSC 139A	Weight Training I	0.5-1.0
EXSC 142	Hiking for Fitness I- Fundamentals	0.5-2.0
EXSC 145A	Yoga I	0.5-1.0
EXSC 147A	Kickboxing I	0.5-1.0
EXSC 148A	Mixed Martial Arts I	0.5-1.0

Total: 10.0-12.0

HEATING, VENTILATION, AND AIR CONDITIONING SYSTEMS DESIGN - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Heating, Ventilation, and Air Conditioning Systems Design focuses on the integration of HVAC components and equipment into the design of optimally functional and energy efficient building air conditioning systems.

Learning Outcome(s):

1. Students who complete the program will be able to trace power and control voltages in the diagnosis of HVACR equipment.
2. Students who complete the program will be able to utilize knowledge of the Refrigeration Cycle to charge a typical AC system.
3. Students who complete the program will be able to articulate the effects of deficient or excessive sub-cooling, superheat, air flow or water flow through an HVACR system.
4. Students who complete the program will be able to correctly diagnose and repair HVACR equipment using a minimum of replacement parts.
5. Students who complete the program will be able to size and design the HVACR system for a structure or commercial application

Requirements

COURSES REQUIRED FOR THE MAJOR:		Units: 31.0
AIRE 100	Basic Refrigeration & AC Theory	4.0
AIRE 103	Basic Refrigeration & AC Lab	2.0
AIRE 128	Comfort Heating Systems Theory	4.0
AIRE 129	Comfort Heating Systems Lab	2.0
AIRE 122	Construction Drawings and Estimating	3.0
AIRE 123	Construction Drawings and Estimating Lab	1.0
AIRE 124	Power & Control Systems Theory	3.0
AIRE 125	Power & Control Systems Lab	2.0
AIRE 126	Fluid Flow Dynamics	3.0
AIRE 127	Fluid Flow Dynamics Lab	2.0

AIRE 138	HVAC System Design	3.0
AIRE 139	HVAC System Design Lab	2.0

Total: 31.0

HISTORY - ASSOCIATE IN ARTS FOR TRANSFER DEGREE: CITY

Summary

Program Description

The Associate in Arts in History for Transfer Degree is intended for students who plan to complete a bachelor's degree in History or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. Students who complete this degree and transfer to a participating CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor's degree. It may not be appropriate preparation for students transferring to a CSU campus that does not accept the degree. Students who plan to complete this degree should consult a counselor for additional information about participating CSU campuses as well as university admission, degree, and transfer requirements.

Note: Students intending to transfer into this major at a CSU should consult with a counselor and visit www.assist.org for guidance on appropriate transfer coursework.

Award Notes: General Education: In addition to the courses listed above, students must complete one of the following general education options:

- The IGETC pattern is accepted by all CSU campuses and most UC campuses and majors. It is also accepted by some private/ independent or out of state universities.
- The CSU GE pattern is accepted by all CSU campuses and some private/independent or out of state universities. It is not accepted by the UC system. It is strongly recommended that students consult with a counselor to determine which general education option is most appropriate for their individual educational goals.

The following is required for all AA-T or AS-T degrees:

- Completion of 60 CSU-transferable semester units. No more than 60 units are required.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major. All courses in the major must be completed with a grade of "C" or "P" or better.
- Certified completion of the California State University General Education-Breadth pattern; OR the Intersegmental General Education Transfer Curriculum pattern. Electives as needed to meet maximum of 60 CSU-transferable units required for the degree.

Award Notes:

The following is required for all AA-T or AS-T degrees:

- Completion of 60 semester units that are eligible for transfer to the California State University
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Minimum grade of "C" or "P" or better for each course in the major. Students should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.

Learning Outcome(s):

1. Students who complete the program will be able to identify and describe historic periods, movements, trends, people, and events important in the study of World, U.S., Asian and Latin American history, and Western Civilization.
2. Students who complete the program will be able to critically analyze primary and secondary sources in college-level essays, written assignments, and research papers.

Requirements

COURSES REQUIRED FOR THE MAJOR:		Units: 6.0
HIST 109	History of the United States I	3.0
HIST 110	History of the United States II	3.0

Select two courses from the following:		Units: 6.0
HIST 100	World History I	3.0
HIST 101	World History II	3.0
HIST 105	Introduction to Western Civilization I	3.0
HIST 106	Introduction to Western Civilization II	3.0

Select two courses not selected above from the following:		Units: 6.0
HIST 100	World History I	3.0
HIST 101	World History II	3.0
HIST 105	Introduction to Western Civilization I	3.0
HIST 106	Introduction to Western Civilization II	3.0
HIST 115A	History of the Americas I	3.0
HIST 115B	History of the Americas II	3.0
HIST 120	Introduction to Asian Civilizations	3.0
HIST 121	Asian Civilizations in Modern Times	3.0
HIST 123	U.S. History from the Asian Pacific American Perspective	3.0

Total: 18.0

HISTORY - ASSOCIATE OF ARTS DEGREE: CITY

Summary

History is the study of human experience from the dawn of time to the present. It examines people, institutions, ideas and events of the past and the present. The primary objectives of the History program are: to meet general education requirements for American Institutions, Humanities and Social Sciences; completion of the Associate of Arts degree; and preparation for transfer to a four-year institution and completion of general education requirements for the student enrolled in a four-year institution.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Students who complete the program will be able to identify and describe historic periods, movements, trends, people, and events important in the study of World, U.S., Asian and Latin American history, and Western Civilization.
2. Students who complete the program will be able to critically analyze primary and secondary sources in college-level essays, written assignments, and research papers.

Requirements

COURSES REQUIRED FOR THE MAJOR:		Units: 18.0
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		6.0
HIST 100	World History I	3.0
AND		
HIST 101	World History II	3.0
OR		
		6.0
HIST 105	Introduction to Western Civilization I	3.0
AND		
HIST 106	Introduction to Western Civilization II	3.0
OR		
		6.0
HIST 109	History of the United States I	3.0
AND		
HIST 110	History of the United States II	3.0
OR		
		6.0
HIST 115A	History of the Americas I	3.0
AND		
HIST 115B	History of the Americas II	3.0
OR		
		6.0
HIST 120	Introduction to Asian Civilizations	3.0
AND		
HIST 121	Asian Civilizations in Modern Times	3.0
OR		
		6.0
HIST 109	History of the United States I	3.0
AND		
HIST 123	U.S. History from the Asian Pacific American Perspective	3.0

Total: 18.0

HISTORY AND POLITICS OF AMERICAN LABOR - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Labor Studies program provides students a sound foundation in the law, history, culture, politics, institutions, and contemporary issues of American work life. Students will gain a comprehensive introduction to the role and contributions of organized labor to American society, a thorough grounding in the rights of employees on the job, and specialized training in the skills necessary to be an effective leader in labor unions or in other contexts for labor-management relations.

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. Note:**

This program is not eligible for federal financial aid in accordance with Federal regulations

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Identify strategies used in a variety of work settings and organizations and analyze for their effectiveness in promoting fair and equitable labor practices.

2. Describe current and emerging labor issues in ways that demonstrate awareness of issues of equity such as race, ethnicity and gender in the labor force, immigrant workers, and young workers.
3. Identify the role of working people in the U.S. and analyze how concepts of work informed the origins of unionization in the country as well as theoretical developments of labor as a field of study.

Requirements

COURSES REQUIRED FOR THE MAJOR:		Units: 6.0
LABR 100	American Labor Movement	3.0
LABR 108	Labor and Politics	3.0
		Total: 6.0

HVAC/R MECHANICAL SYSTEMS INSTALLATION AND REPAIR - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The Associate of Science in HVAC/R Mechanical Systems Installation and Repair provides students with competencies fundamental for preparing for employment or advanced training in heating, ventilation, air-conditioning (HVAC/R) and appliance installation, maintenance, and repair. The pathway includes preparation for a Class C California License and various industry-recognized certifications pertaining to the HVAC/R industry.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Students who complete the program will be able to trace power and control voltages in the diagnosis of HVACR equipment.
2. Students who complete the program will be able to utilize knowledge of the Refrigeration Cycle to charge a typical AC system.
3. Students who complete the program will be able to articulate the effects of deficient or excessive sub-cooling, superheat, air flow or water flow through an HVACR system.
4. Students who complete the program will be able to correctly diagnose and repair HVACR equipment using a minimum of replacement parts.
5. Students who complete the program will be able to size and design the HVACR system for a structure or commercial application

Requirements

COURSES REQUIRED FOR THE MAJOR:		Units: 24.0
AIRE 60	Construction Safety and Health	2.0
AIRE 94	HVAC/R Certification Training	3.0
AIRE 100	Basic Refrigeration & AC Theory	4.0
AIRE 103	Basic Refrigeration & AC Lab	2.0
AIRE 124	Power & Control Systems Theory	3.0
AIRE 125	Power & Control Systems Lab	2.0
AIRE 132	Advanced Refrigeration & AC Theory	3.0
AIRE 133	Advanced Refrigeration & AC Lab	2.0
EGEE 50	Building Science Principles	3.0
		Total: 24.0

INFORMATION TECHNOLOGY MANAGEMENT - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The Associate of Science in Information Technology Management provides students with a comprehensive education in teamwork and leadership, networking and security, and information systems management. This curriculum includes hands-on experience in virtual environments that simulate real-world scenarios in installation, administration, and management of computer and network systems. This pathway includes preparation for industry-recognized certifications geared towards preparing students for a successful career in IT roles that are vital for building, protecting, and maintaining information and technology assets.

Note:

The Computer Information Systems Department requires students to complete all course requirements for the degree within five years.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Requirements

COURSES REQUIRED FOR THE MAJOR:		Units: 30.0
BUSE 119	Business Communications	3.0
CBTE 180	Microsoft Office	3.0
INWT 100	Computing Fundamentals (A+)	4.0
INWT 111	Windows Desktop Administration	3.0
INWT 112	Windows Infrastructure Administration	3.0
INWT 120	Network Fundamentals (Network+)	4.0
INWT 125	Cloud+ Certification Training	3.0
INWT 140	Security Fundamentals (Security+)	3.0
INWT 145	Linux Administration (Linux+)	4.0
Total:		30.0

INFORMATION TECHNOLOGY MANAGEMENT - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Information Technology Management provides students with a comprehensive education in teamwork and leadership, networking and security, and information systems management. This curriculum includes hands-on experience in virtual environments that simulate real-world scenarios in installation, administration, and management of computer and network systems. This pathway includes preparation for industry-recognized certifications geared towards preparing students for a successful career in IT roles that are vital for building, protecting, and maintaining information and technology assets.

Note:

The Computer Information Systems Department requires students to complete all course requirements for the certificate within five years.

Learning Outcome(s):

1. Upon successful completion students will be able to apply security principles and practices to maintain operations in the presence of risks and threats.
2. Upon successful completion students will be able to function effectively as a member or leader of a team engaged in activities appropriate to the program’s discipline.
3. Upon successful completion students will be able to recognize professional responsibilities and make informed judgments in computing practice, taking into account legal, ethical, diversity, equity, inclusion, and accessibility principles consistent with the mission of the institution.
4. Upon successful completion students will be able to communicate effectively in a variety of professional contexts.
5. Upon successful completion students will be able to design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program’s discipline.

6. Upon successful completion students will be able to analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 30.0

BUSE 119	Business Communications	3.0
CBTE 180	Microsoft Office	3.0
INWT 100	Computing Fundamentals (A+)	4.0
INWT 111	Windows Desktop Administration	3.0
INWT 112	Windows Infrastructure Administration	3.0
INWT 120	Network Fundamentals (Network+)	4.0
INWT 125	Cloud+ Certification Training	3.0
INWT 140	Security Fundamentals (Security+)	3.0
INWT 145	Linux Administration (Linux+)	4.0

Total: 30.0

INTERACTION DESIGN - ASSOCIATE OF ARTS DEGREE: CITY

Summary

Interaction design is a field that blends visual communication and technology to create interactive experiences on a wide variety of digital platforms. Students apply industry standard user experience processes to the development of effective information architecture, intuitive user interfaces, and compelling interactive content. With an emphasis on research, strategy, and professional practices, students are given broad opportunities to develop a unique voice, vision, and viewpoint. The program culminates in a professional body of work that could be used to obtain employment or transfer to a four-year design program.

Note:

The Design Department requires students to complete all requirements for the certificate within seven years.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Students who complete the program will be able to produce a body of work that demonstrates a unique voice, vision, and viewpoint.
2. Students who complete the program will be able to demonstrate proficiency with current industry standard design software.
3. Students who complete the program will be able to demonstrate an understanding of visual coherence by building typographic systems.
4. Students who complete the program will be able to incorporate research processes and conceptual strategies to solve design problems.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 24.0

The Design Department requires students to complete all requirements for the award within seven years.

DSGN 100	Introduction to Graphic Design	3.0
DSGN 102	Digital Media I	3.0
DSGN 104	Graphic Design History	3.0

DSGN 106	Typography I	3.0
DSGN 124	Page Layout	3.0
DSGN 143	Interaction Design I	3.0
DSGN 153	Interaction Design II	3.0
DSGN 203	Interaction Design III	3.0

Complete three additional courses from the following:

Units: 9.0

DSGN 120	Illustration	3.0
ARTF 174A	Book Arts I	3.0
DSGN 202	Digital Media II	3.0
DSGN 206	Typography II	3.0
DSGN 210	Branding and Packaging	3.0
DSGN 213	Interaction Design IV	3.0
DSGN 216A	Design Studio I	3.0
DSGN 216B	Design Studio II	3.0
DSGN 216C	Design Studio III	3.0
DSGN 218	Internship	3.0

3.0-6.0

DSGN 222	Book Arts II	3.0
OR		

6.0

DSGN 248	Portfolio I	3.0
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AND

DSGN 258	Portfolio II	3.0
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Total: 33.0

INTERACTION DESIGN - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

Interaction design is a field that blends visual communication and technology to create interactive experiences on a wide variety of digital platforms. Students apply industry standard user experience processes to the development of effective information architecture, intuitive user interfaces, and compelling interactive content. With an emphasis on research, strategy, and professional practices, students are given broad opportunities to develop a unique voice, vision, and viewpoint. The program culminates in a professional body of work that could be used to obtain employment or transfer to a four-year design program.

Note:

The Design Department requires students to complete all requirements for the award within seven years.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 24.0

The Design Department requires students to complete all requirements for the award within seven years.

DSGN 100	Introduction to Graphic Design	3.0
DSGN 102	Digital Media I	3.0
DSGN 104	Graphic Design History	3.0
DSGN 106	Typography I	3.0

DSGN 124	Page Layout	3.0
DSGN 143	Interaction Design I	3.0
DSGN 153	Interaction Design II	3.0
DSGN 203	Interaction Design III	3.0

Choose three courses from the following:

Units: 9.0

DSGN 120	Illustration	3.0
ARTF 174A	Book Arts I	3.0
DSGN 202	Digital Media II	3.0
DSGN 206	Typography II	3.0
DSGN 210	Branding and Packaging	3.0
DSGN 213	Interaction Design IV	3.0
DSGN 216A	Design Studio I	3.0
DSGN 216B	Design Studio II	3.0
DSGN 216C	Design Studio III	3.0
DSGN 218	Internship	3.0

3.0-6.0

DSGN 222	Book Arts II	3.0
OR		

6.0

DSGN 248	Portfolio I	3.0
AND		
DSGN 258	Portfolio II	3.0

Total: 33.0

INTERMEDIATE C++ - CERTIFICATE OF PERFORMANCE: CITY

Summary

Intermediate C++ provides students with an in-depth understanding of object-oriented programming in the C++ language, including classes, operator overloading, inheritance, polymorphism, exception handling, and the standard template library (STL). This is followed by an advanced study of best practices, templates, robust coding practices, unit testing, and adding a user interface. This curriculum is based upon meaningful programming assignments that are created, debugged, and tested in a contemporary Integrated Development Environment (IDE).

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. Note:**

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Upon successful program completion, our graduates will apply security principles and practices to maintain operations in the presence of risks and threats.
2. Upon successful program completion, our graduates will function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline
3. Upon successful program completion, our graduates will recognize professional responsibilities and make informed judgments in computing practice, taking into account legal, ethical, diversity, equity, inclusion, and accessibility principles consistent with the mission of the institution.

4. Upon successful program completion, our graduates will communicate effectively in a variety of professional contexts.
5. Upon successful program completion, our graduates will design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
6. Upon successful program completion, our graduates will analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 8.0

CISC 201	Advanced C++ Programming	4.0
CISC 205	Object Oriented Programming using C++	4.0

Total: 8.0

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC) - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The student will select courses that fulfill the IGETC certification pattern detailed on page 126 of this catalog. IGETC is accepted by all CSU campuses and most UC campuses and majors. It is also accepted by some private / independent or out of state universities.

Learning Outcome(s):

- 1.

Requirements

INTRODUCTION TO C++ - CERTIFICATE OF PERFORMANCE: CITY

Summary

Introduction to C++ provides students with a basic understanding of programming in the C++ language. It includes control structures, functions, file-handling, and pointers, followed by a study of data structures including linked lists, stacks, queues, recursion, and binary trees. This curriculum includes meaningful programming assignments that take advantage of contemporary Integrated Development Environments (IDE) to develop/ debug/ test working code.

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. Note:**

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Upon successful program completion, our graduates will apply security principles and practices to maintain operations in the presence of risks and threats.
2. Upon successful program completion, our graduates will function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
3. Upon successful program completion, our graduates will recognize professional responsibilities and make informed judgments in computing practice, taking into account legal, ethical, diversity, equity, inclusion, and accessibility principles consistent with the mission of the institution.
4. Upon successful program completion, our graduates will communicate effectively in a variety of professional contexts.

5. Upon successful program completion, our graduates will design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
6. Upon successful program completion, our graduates will analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 8.0

CISC 187	Data Structures in C++	4.0
CISC 192	C/C++ Programming	4.0

Total: 8.0

INTRODUCTION TO MANUFACTURING - CERTIFICATE OF PERFORMANCE: CITY

Summary

This certificate prepares students with necessary skills, knowledge and experience to continue on with the coursework and projects in MFET program.

Note:

MFET 101 and MFET 105 could be taken in the same semester. *A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to describe different types of materials, process flows, equipment and techniques used in manufacturing.
2. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to demonstrate proficiency in programming and operation of NC/CNC equipment.
3. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to identify and apply quality control tools and instruments used in a manufacturing environment.
4. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to explain product design to optimize manufacturing efficiency.
5. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to identify and utilize CAD/CAM applications in various manufacturing processes.
6. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to describe different types of materials, process flows, equipment and techniques used to manufacture electronics products.
7. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to explain and apply the fundamentals of electronics applications and theory.
8. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to identify and apply quality control tools used in electronics manufacturing industry.

9. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to demonstrate the knowledge of design tools used in electronics industry for product development.
10. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to utilize, operate and measure the results of various test equipment to support product development.

Requirements

COURSES REQUIRED FOR THE MAJOR: **Units: 6.0**

MFET 101	Introduction to Manufacturing Engineering Technology	3.0
MFET 105	Print Reading and Symbology	3.0

MFET 101 and MFET 105 may be taken in the same semester.

Choose one of the following: **Units: 1.5**

MFET 107D	STEM Drone Building	1.5
MFET 107G	STEM Guitar Building	1.5
MFET 107H	STEM High Tech Device Building	1.5

Total: 7.5

ITALIAN - ASSOCIATE OF ARTS DEGREE: CITY

Summary

The study of languages provides communication skills, provides exposure to the richness of cultural variety, increases transfer options to universities with language requirements, opens new career opportunities, enriches global travel, and provides personal enrichment. The program is designed to prepare students for transfer to a baccalaureate institution and for proficiency in a language in a variety of settings.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Students who complete the program will be able to accept and value other peoples.
2. Students who complete the program will be able to read and analyze writings in Foreign Language target areas.
3. Students who complete the program will be able to discuss the social and cultural life of Foreign Language speakers in the target language.
4. Students who complete the program will be able to demonstrate accurate foreign language grammar including writing, speaking, and listening in the target language.
5. Students who complete the program will be able to demonstrate preparedness for successful transition to the language program of four year institutions.

Requirements

COURSES REQUIRED FOR THE MAJOR: **Units: 21.0**

ITAL 101	First Course in Italian	5.0
ITAL 102	Second Course in Italian	5.0
ITAL 201	Third Course in Italian	5.0
ITAL 210	The Grammar of Spoken Italian I	3.0
ITAL 211	The Grammar of Spoken Italian II	3.0

Total: 21.0

Summary

Program Description

The Associate in Arts in Journalism for Transfer Degree is intended for students who plan to complete a bachelor's degree in Journalism or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. Students who complete this degree and transfer to a participating CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor's degree. It may not be appropriate preparation for students transferring to a CSU campus that does not accept the degree. Students who plan to complete this degree should consult a counselor for additional information about participating CSU campuses as well as university admission, degree, and transfer requirements.

NOTE: Students intending to transfer into this major at a CSU should consult with a counselor and visit www.assist.org for guidance on appropriate transfer coursework.

Award Notes:

General Education: In addition to the courses listed above, students must complete one of the following general education options:

- The IGETC pattern is accepted by all CSU campuses and most UC campuses and majors. It is also accepted by some private/ independent or out of state universities.
- The CSU GE pattern is accepted by all CSU campuses and some private/independent or out of state universities. It is not accepted by the UC system.
- It is strongly recommended that students consult with a counselor to determine which general education option is most appropriate for their individual educational goals.

The following is required for all AA-T or AS-T degrees:

- Completion of 60 CSU-transferable semester units. No more than 60 units are required.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major (see list below). All courses in the major must be completed with a grade of "C" or "P" or better.
- Certified completion of the California State University General Education-Breadth pattern; OR the Intersegmental General Education Transfer Curriculum pattern.

Award Notes:

The following is required for all AA-T or AS-T degrees:

- Completion of 60 semester units that are eligible for transfer to the California State University
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Minimum grade of "C" or "P" or better for each course in the major. Students should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 18.0

FJMP 101	Introduction to Mass Media	3.0
FJMP 130	Newswriting for Multiplatform Journalism	3.0
FJMP 132	Multiplatform Journalism Production	3.0
COMS 160	Argumentation and Critical Thinking	3.0
POLI 102	Introduction to American Government	3.0
<i>Select one course from the following:</i>		3.0
FJMP 131	Multimedia Journalism Reporting	3.0
FJMP 232A	Multiplatform Journalism Workshop I	3.0

Total: 18.0

JOURNALISM - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The Associate of Science Degree in Journalism offers hands-on training and experience in the fundamentals of journalism, using current and emerging multimedia tools and technologies in our state-of-the-art facilities. The program emphasis is placed on planning, writing, producing, directing, editing, and performing across platforms. Other topics addressed include social media production and management, photojournalism and documentary photography, and studio operations. Students contribute to the award-winning City Times Media platform and its partners, including digital news, magazine, TV news, radio podcast and independent film. This program is designed for students interested in enhancing their skills and knowledge of journalism, students majoring in Journalism, and for those seeking entry-level employment in media-related industries. The skills acquired with this A.S. degree may lead to employment, freelance work, or business ownership. These jobs include, but are not limited to, multimedia journalist, digital content producer, production assistant, news producer, on-air talent, news reporter, news writer, public information officer, communications director, social media producer, operations engineer, news photographer, audio engineer, studio camera operator, and sound technician.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Apply principles of diversity, equity, and media law and ethics.
2. Conduct research and evaluate information by methods appropriate to the media professions in which they work.
3. Write in forms and styles appropriate for media professions, audiences, and purposes they serve.
4. Apply tools and technologies appropriate for the media professions in which they work.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 18.0

FJMP 101	Introduction to Mass Media	3.0
FJMP 102	Social Media in the Digital Age	3.0
FJMP 130	Newswriting for Multiplatform Journalism	3.0
FJMP 131	Multimedia Journalism Reporting	3.0
		3.0
FJMP 132	Multiplatform Journalism Production	3.0
OR		
FJMP 133	Broadcast News Production	3.0
		3.0
FJMP 143	On-Camera Performance	3.0
OR		

FJMP 144	Multi-Camera Studio Operations	3.0
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Complete three (3) units from the following:

Units: 3.0

FJMP 132	Multiplatform Journalism Production	3.0
FJMP 133	Broadcast News Production	3.0
FJMP 134	Multiplatform Magazine Production	3.0
PHOT 215	Photojournalism and Documentary Photography	3.0
FJMP 142	Radio and Podcast Production	3.0
FJMP 232A	Multiplatform Journalism Workshop I	3.0
FJMP 232B	Multiplatform Journalism Workshop II	3.0
FJMP 233A	Broadcast News Workshop I	3.0
FJMP 233B	Broadcast News Workshop II	3.0

Total: 21.0

KINESIOLOGY - ASSOCIATE IN ARTS FOR TRANSFER DEGREE: CITY

Summary

The Associate in Arts in Kinesiology for Transfer Degree is intended for students who plan to complete a bachelor's degree in Kinesiology or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. Students who complete this degree and transfer to a participating CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor's degree. It may not be appropriate preparation for students transferring to a CSU campus that does not accept the degree. Students who plan to complete this degree should consult a counselor for additional information about participating CSU campuses as well as university admission, degree and transfer requirements. NOTE: Students intending to transfer into this major at a CSU should consult with a counselor and visit www.assist.org for guidance on appropriate transfer coursework.

Award Notes:

The following is required for all AA-T or AS-T degrees:

- Completion of 60 semester units that are eligible for transfer to the California State University
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Minimum grade of "C" or "P" or better for each course in the major. Students should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.

Learning Outcome(s):

1. Personal Trainer: Upon successful completion the student will possess an applied understanding of physiology, kinesiology and nutrition as it applies to physical fitness. Students will demonstrate the ability to create safe and effective exercise/fitness programs for individuals or groups that meet the needs of the target audience.
2. Health: Upon successful completion the student will be able to identify the various dimensions of wellness, their interaction with one another, and then utilize strategies to create balance and successfully navigate life.
3. Exercise Science: Upon successful completion the student will improve in one or more of the 5 "Health-Related" Components of Fitness.
4. Athletics: Upon successful completion the student/athlete will improve their level of physical fitness, develop greater skill, and improve in the mental, psychological, and social aspects of their sport. They will create an educational plan with a counselor and develop recruiting tools to aid in transfer to a four year institution.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 11.0

Courses required for the Major

BIOL 230	Human Anatomy	4.0
BIOL 235	Human Physiology	4.0
EXSC 241B	Introduction to Kinesiology	3.0

Combatives

Units: 0.0

EXSC 147A	Kickboxing I	1.0
EXSC 148A	Mixed Martial Arts I	1.0

Fitness

Units: 0.0

EXSC 125A	Aerobic Dance I	1.0
EXSC 125B	Aerobic Dance II	1.0
EXSC 125C	Aerobic Dance III	1.0
EXSC 125D	Aerobic Dance IV	1.0
EXSC 127A	Cardio Kickboxing I	1.0
EXSC 129A	Step Aerobics I	1.0
EXSC 135A	Individual Conditioning I	1.0
EXSC 139A	Weight Training I	1.0
EXSC 139B	Weight Training II	1.0
EXSC 139C	Weight Training III	1.0
EXSC 139D	Weight Training IV	1.0
EXSC 145A	Yoga I	1.0

Individual Sports

Units: 0.0

EXSC 154A	Badminton I	1.0
EXSC 166A	Golf I	1.0
EXSC 178A	Tennis I	1.0

Team Sports

Units: 0.0

EXSC 158A	Basketball I	1.0
EXSC 174A	Soccer I	1.0
EXSC 176A	Softball I	1.0
EXSC 182A	Volleyball I	1.0

Select two of the following courses (minimum 8 units)

Units: 8.0

		5.0
CHEM 200	General Chemistry I - Lecture	3.0
AND		
CHEM 200L	General Chemistry I - Laboratory	2.0
		3.0
MATH 119	Elementary Statistics	3.0
OR		
PSYC 258	Behavioral Science Statistics	3.0

Total: 19.0

LABOR STUDIES - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Labor Studies provides union members, organizers, and officers as well as those students interested in social justice majors and non-profit community organizing work the skills needed to qualify for and to be effective in their positions.

Note:

Students who successfully complete the Certificate of Achievement in Labor Studies will have a: • Working knowledge of labor organizations, their history, philosophy, structure, and day-to-day operations.

Award Note:

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Identify strategies used in a variety of work settings and organizations and analyze for their effectiveness in promoting fair and equitable labor practices.
2. Describe current and emerging labor issues in ways that demonstrate awareness of issues of equity such as race, ethnicity and gender in the labor force, immigrant workers, and young workers.
3. Identify the role of working people in the U.S. and analyze how concepts of work informed the origins of unionization in the country as well as theoretical developments of labor as a field of study.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 12.0

LABR 100	American Labor Movement	3.0
LABR 102	Labor Law	3.0
LABR 107	Organizing	3.0
LABR 108	Labor and Politics	3.0

Total: 12.0

LAW, PUBLIC POLICY, AND SOCIETY - ASSOCIATE IN ARTS FOR TRANSFER DEGREE: CITY

Summary

Program Description

The Associate in Arts in Law, Public Policy, and Society for Transfer Degree is intended for students who plan to complete a bachelor's degree in Law, Public Policy, and Society or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. Students who complete this degree and transfer to a participating CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor's degree. It may not be appropriate preparation for students transferring to a CSU campus that does not accept the degree. Students who plan to complete this degree should consult a counselor for additional information about participating CSU campuses as well as university admission, degree, and transfer requirements.

NOTE: Students intending to transfer into this major at a CSU should consult with a counselor and visit www.assist.org for guidance on appropriate transfer coursework.

Award Notes:

General Education: In addition to the courses listed above, students must complete one of the following general education options:

- The IGETC pattern is accepted by all CSU campuses and most UC campuses and majors. It is also accepted by some private/ independent or out of state universities.

- The CSU GE pattern is accepted by all CSU campuses and some private/independent or out of state universities. It is not accepted by the UC system.
- It is strongly recommended that students consult with a counselor to determine which general education option is most appropriate for their individual educational goals.

The following is required for all AA-T or AS-T degrees:

- Completion of 60 CSU-transferable semester units. No more than 60 units are required.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major. All courses in the major must be completed with a grade of "C" or "P" or better.
- Certified completion of the California State University General Education-Breadth pattern; OR the Intersegmental General Education Transfer Curriculum pattern. Electives as needed to meet maximum of 60 CSU-transferable units required for the degree.

Award Notes:

The following is required for all AA-T or AS-T degrees:

- Completion of 60 semester units that are eligible for transfer to the California State University
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Minimum grade of "C" or "P" or better for each course in the major. Students should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.

Learning Outcome(s):

1. Upon successful completion students will be able to identify and describe main concepts in the study of political science including, but not limited to, political power, sovereignty, nation-state; legitimacy; authority, political culture, political socialization, political ideology; social contract; separation of powers; federalism; unitary system; rule of law and globalization.
2. Upon successful completion students will be able to critically analyze the study of human behavior as it relates to political situations in college-level essays, written assignments, and research papers.

Requirements

COURSES REQUIRED FOR THE MAJOR:		Units: 30.0
PADM 200	Introduction to Public Administration	3.0
		3.0
ADJU 101	Introduction to Administration of Justice	3.0
OR		
ADJU 102	Criminal Law I	3.0
OR		
BUSE 140	Business Law and the Legal Environment	3.0
ENGL 101	Reading and Composition	3.0
COMS 103	Oral Communication	3.0
		3.0
COMS 160	Argumentation and Critical Thinking	3.0
OR		
ENGL 205	Critical Thinking and Intermediate Composition	3.0

		3.0
ECON 120	Principles of Macroeconomics	3.0
OR		
ECON 121	Principles of Microeconomics	3.0
		3.0
HIST 109	History of the United States I	3.0
OR		
HIST 110	History of the United States II	3.0
PHIL 102B	Introduction to Philosophy: Values	3.0
POLI 102	Introduction to American Government	3.0
		3.0
POLI 201	Elementary Statistics for Political Science	3.0
OR		
MATH 119	Elementary Statistics	3.0

Total: 30.0

LEAN SIX SIGMA - CERTIFICATE OF PERFORMANCE: CITY

Summary

This certificate covers topics in quality, lean and six sigma, with both theoretical and hands-on training contents. The certificate prepares students for quality-related jobs, and also for taking the six sigma green belt or other quality-related certification.

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. Note:**

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to describe different types of materials, process flows, equipment and techniques used in manufacturing.
2. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to demonstrate proficiency in programming and operation of NC/CNC equipment.
3. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to identify and apply quality control tools and instruments used in a manufacturing environment.
4. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to explain product design to optimize manufacturing efficiency.
5. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to identify and utilize CAD/CAM applications in various manufacturing processes.
6. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to describe different types of materials, process flows, equipment and techniques used to manufacture electronics products.

7. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to explain and apply the fundamentals of electronics applications and theory.
8. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to identify and apply quality control tools used in electronics manufacturing industry.
9. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to demonstrate the knowledge of design tools used in electronics industry for product development.
10. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to utilize, operate and measure the results of various test equipment to support product development.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 9.0

		9.0
MFET 210	Statistical Process Control	3.0
AND		
MFET 230	Lean Manufacturing	3.0
AND		
MFET 240	Six Sigma and Lean Implementation	3.0

Total: 9.0

LIBERAL ARTS AND SCIENCES: LANGUAGE ARTS AND HUMANITIES - ASSOCIATE OF ARTS DEGREE: CITY

Summary

The Liberal Arts and Sciences Degree is designed to enable students to complete the requirements for an Associate of Arts Degree with a minimum of 18 units in an area of emphasis and transfer to a University of California, a California State University or an independent/private college and university. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major should be selected with the assistance of a San Diego City College counselor.

Common university majors in this emphasis include: Classics, Communication, Comparative Literature, Creative Writing, Deaf Studies, English, French, German, Global Cultures, History, Humanities, Italian Studies, Latin American and Latino Studies, Linguistics, Literary Studies, Literature, Literature and Culture, Media Studies, Mass Communications, Philosophy, Professional Writing and Rhetoric, Religious Studies, Spanish, Spanish Studies.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 18.0

Students should complete a minimum of 18 units in Arts and Humanities courses:

AMSL 120	American Sign Language Level I	5.0
AMSL 121	American Sign Language Level II	5.0
AMSL 220	American Sign Language Level III	5.0
AMSL 221	American Sign Language Level IV	5.0
AMSL 150	Introduction to Deaf Culture	3.0

ARAB 101	First Course in Arabic	5.0
ARAB 102	Second Course in Arabic	5.0
ARAB 105	Elementary Spoken Egyptian Arabic	3.0
BLAS 110	African American Art	3.0
BLAS 120	Black Music	3.0
BLAS 155	African American Literature	3.0
CHIC 130	Mexican Literature in Translation	3.0
CHIC 135	Chicana/o Literature	3.0
CHIC 190	Chicano Images in Film	3.0
CHIC 210	Chicano Culture	3.0
COMS 101	Voice and Articulation	3.0
COMS 103	Oral Communication	3.0
COMS 104	Advanced Public Communication	3.0
COMS 111	Oral Interpretation	3.0
COMS 135	Interpersonal Communication	3.0
COMS 160	Argumentation and Critical Thinking	3.0
COMS 170	Small Group Communication	3.0
COMS 180	Intercultural Communication	3.0
COMS 201	Communication and Community	3.0
ENGL 101	Reading and Composition	3.0
ENGL 105	Composition and Literature	3.0
ENGL 202	Introduction to Linguistics	3.0
ENGL 205	Critical Thinking and Intermediate Composition	3.0
ENGL 208	Introduction to Literature	3.0
ENGL 209	Literary Approaches to Film	3.0
ENGL 210	American Literature I	3.0
ENGL 211	American Literature II	3.0
ENGL 215	English Literature I: 800-1799	3.0
ENGL 216	English Literature II: 1800 - Present	3.0
ENGL 220	Masterpieces of World Literature I: 1500 BCE - 1600 CE	3.0
ENGL 221	Masterpieces of World Literature II: 1600 - Present	3.0
ENGL 237	Women in Literature	3.0
ENGL 238	Evaluating Children's Literature	3.0
ENGL 240	Shakespeare	3.0
ENGL 245A	Writing Creative Nonfiction	3.0
ENGL 252A	Fundamentals of Fiction Writing	3.0
ENGL 247A	Writing Seminar - Poetry	3.0
ENGL 249A	Introduction to Creative Writing I	3.0
FREN 101	First Course in French	5.0
FREN 201	Third Course in French	5.0
FREN 102	Second Course in French	5.0
FREN 202	Fourth Course in French	5.0
GERM 101	First Course in German	5.0
GERM 102	Second Course in German	5.0
GERM 201	Third Course in German	5.0
HIST 100	World History I	3.0
HIST 101	World History II	3.0
HIST 105	Introduction to Western Civilization I	3.0
HIST 106	Introduction to Western Civilization II	3.0
HIST 120	Introduction to Asian Civilizations	3.0
HIST 121	Asian Civilizations in Modern Times	3.0
HUMA 101	Introduction to the Humanities I	3.0

HUMA 102	Introduction to the Humanities II	3.0
HUMA 103	Introduction to the New Testament	3.0
HUMA 106	World Religions	3.0
HUMA 201	Mythology	3.0
ITAL 101	First Course in Italian	5.0
ITAL 102	Second Course in Italian	5.0
ITAL 201	Third Course in Italian	5.0
PHIL 100	Logic and Critical Thinking	3.0
PHIL 101	Symbolic Logic	3.0
PHIL 102A	Introduction to Philosophy: Reality and Knowledge	3.0
PHIL 102B	Introduction to Philosophy: Values	3.0
PHIL 104A	History Of Western Philosophy: Ancient to Medieval	3.0
PHIL 104B	History of Western Philosophy: Modern to Contemporary	3.0
PHIL 105	Contemporary Philosophy	3.0
PHIL 106	Asian Philosophy	3.0
PHIL 107	Reflections on Human Nature	3.0
PHIL 108	Perspectives on Human Nature and Society	3.0
PHIL 111	Philosophy In Literature and Other Fiction	3.0
PHIL 125	Philosophy of Women	3.0
PHIL 126	Introduction to Philosophy of Contemporary Gender Issues	3.0
PHIL 130	Philosophy of Art and Music	3.0
SPAN 101	First Course in Spanish	5.0
SPAN 102	Second Course in Spanish	5.0
SPAN 201	Third Course in Spanish	5.0
SPAN 202	Fourth Course in Spanish	5.0
SPAN 215	Spanish for Spanish Speakers I	5.0
SPAN 216	Spanish for Spanish Speakers II	5.0

Total: 18.0

LIBERAL ARTS AND SCIENCES: SCIENTIFIC STUDIES IN BIOLOGICAL SCIENCE - ASSOCIATE OF ARTS DEGREE: CITY

Summary

The Liberal Arts and Sciences: Scientific Studies in Biological Sciences Associate Degree offers students the theoretical knowledge, practical laboratory experience, and quantitative reasoning skills necessary to transfer to a University of California, a California State University, or an independent/private college or university in a variety of specializations in the Biological Sciences, including: General Biology, Biology Education, Biochemistry, Biopsychology, Cell Biology, Biotechnology, Cell and Developmental Biology, Chemical Biology, Developmental Biology, Ecological, Evolutionary, and Organismal Biology, Ecology, Behavior, and Evolution, Ecology and Environmental Biology, Ecology and Evolutionary Biology, Environmental Biology, Human Biology, Integrative Biology, Marine Biology, Microbiology, Microbial Biology, Microbiology and Immunology, Neurobiology Biology Education, Organismal Biology, Plant Biology, Molecular and Cell Biology, and Molecular Environmental Biology.

Note:

The Liberal Arts and Sciences Degree is designed to enable students to complete the requirements for an Associate in Arts Degree with a minimum of 18 units in an area of emphasis and transfer to a University of California, a California State University, or an independent/private college. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major should be selected with the assistance of a San Diego City College counselor. Common university majors in this field include: Agricultural Science, Biochemistry, Bioengineering, Bioinformatics, Biological Sciences, Biophysics, Biotechnology, Botany, Cell Biology, Conservation, Developmental Biology, Ecology, Entomology, Life Science, Genetics, Marine Biology, Medical Sciences, Microbiology, Molecular Biology, Natural Sciences, Neuroscience, Psychobiology, Toxicology, and Zoology/Animal Sciences.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 8.0

Core courses (8 units):

BIOL 210A	Introduction to the Biological Sciences I	4.0
BIOL 210B	Introduction to the Biological Sciences II	4.0

Select a minimum of 10 units:

Units: 10.0

CHEM 200	General Chemistry I - Lecture	3.0
CHEM 200L	General Chemistry I - Laboratory	2.0
CHEM 201	General Chemistry II - Lecture	3.0
CHEM 201L	General Chemistry II - Laboratory	2.0
CHEM 231	Organic Chemistry I - Lecture	3.0
CHEM 231L	Organic Chemistry I - Laboratory	2.0
CHEM 233	Organic Chemistry II - Lecture	3.0
CHEM 233L	Organic Chemistry II - Laboratory	2.0
CHEM 251	Quantitative Analytical Chemistry	5.0
CISC 186	Visual Basic Programming	4.0
CISC 190	Java Programming	4.0
CISC 192	C/C++ Programming	4.0
MATH 121	Basic Techniques of Applied Calculus I	3.0
MATH 122	Basic Techniques of Calculus II	3.0
MATH 150	Calculus with Analytic Geometry I	5.0
MATH 151	Calculus with Analytic Geometry II	4.0
MATH 119	Elementary Statistics	3.0
BIOL 200	Biological Statistics	3.0
PHYS 125	General Physics	5.0
PHYS 126	General Physics II	5.0

PHYS 195	Mechanics	5.0
PHYS 196	Electricity and Magnetism	5.0
PHYS 197	Waves, Optics and Modern Physics	5.0
CISC 189A	Introduction to Programming I	4.0
CISC 189B	Introduction to Programming II	4.0

Total: 18.0

LIBERAL ARTS AND SCIENCES: SCIENTIFIC STUDIES MATHEMATICS AND PRE-ENGINEERING - ASSOCIATE OF ARTS DEGREE: CITY

Summary

The Liberal Arts and Sciences: Scientific Studies in Mathematics and Pre-Engineering Associate Degree offer students the mathematical and scientific knowledge, practical experience, and quantitative reasoning skills necessary to transfer to a University of California, a California State University, or an independent/private college or university in a variety specializations, including Aerospace Engineering, Applied Electronics, Applied Mathematics, Astrophysics, Civil Engineering, Computer Engineering, Computer Science, Construction Engineering, Data Science, Electrical Engineering, Engineering, Engineering Technology, Environmental Engineering, Industrial Engineering Technology, Information Systems, Manufacturing Engineering, Materials Science, Mathematics, Robotics, Statistics, Mechanical Engineering, Network and Digital Technology, Nuclear Engineering, Software Engineering, and Structural Engineering.

Note:

The Liberal Arts and Sciences Degree is designed to enable students to complete the requirements for an Associate in Arts Degree with a minimum of 18 units in an area of emphasis and transfer to a University of California, a California State University, or an independent/private college. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major should be selected with the assistance of a San Diego City College counselor.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 18.0

Complete a minimum of 18 units from the courses listed below:

		3.0-4.0
MATH 119	Elementary Statistics	3.0
OR		
PSYC 258	Behavioral Science Statistics	3.0
OR		
MATH 115	Gateway to Experimental Statistics	4.0
CHEM 200	General Chemistry I - Lecture	3.0
CHEM 200L	General Chemistry I - Laboratory	2.0
CHEM 201	General Chemistry II - Lecture	3.0
CHEM 201L	General Chemistry II - Laboratory	2.0
CISC 179	Introduction to Python Programming	4.0
CISC 181	Principles of Information Systems	4.0
CISC 186	Visual Basic Programming	4.0

CISC 187	Data Structures in C++	4.0
CISC 190	Java Programming	4.0
CISC 192	C/C++ Programming	4.0
CISC 205	Object Oriented Programming using C++	4.0
CISC 220	Fundamentals of Computer Game Programming	4.0
ELCT 111	Electrical Theory I	3.0
ELCT 111L	Electrical Laboratory I	2.0
ELCT 121	Electrical Theory II	3.0
ELCT 121L	Electrical Laboratory II	2.0
ELDT 123	Introduction to Digital Circuits	3.0
ELDT 123L	Digital Circuits Laboratory	1.0
ELDT 124	Basic DC Electronics	4.0
ELDT 124L	Basic DC Laboratory	1.0
ELDT 125	AC Circuit Analysis	4.0
ELDT 125L	DC/AC Circuit Analysis Laboratory with Pspice	1.0
ELDT 143	Semiconductor Devices	3.0
ELDT 143L	Semiconductor Devices Laboratory	1.5
ENGE 101	Introduction to Engineering	1.5
ENGE 108	Dimensioning and Tolerancing	3.0
ENGE 111	Introduction to Computer-Aided Design	3.0
ENGE 116	Computational Methods in Engineering	3.0
ENGE 151	Computer-Aided Design	2.0
ENGE 152	Engineering Design	3.0
ENGE 200	Statics	3.0
ENGE 210	Properties of Materials	3.0
ENGE 240	Digital Systems	3.0
ENGE 250	Dynamics	3.0
ENGE 260	Electric Circuits	3.0
MATH 107	Introduction to Scientific Programming	3.0
MATH 107L	Introduction to Scientific Programming Lab	1.0
MATH 121	Basic Techniques of Applied Calculus I	3.0
MATH 122	Basic Techniques of Calculus II	3.0
MATH 141	Precalculus	5.0
MATH 150	Calculus with Analytic Geometry I	5.0
MATH 151	Calculus with Analytic Geometry II	4.0
MATH 245	Discrete Mathematics	3.0
MATH 252	Calculus with Analytic Geometry III	4.0
MATH 254	Introduction to Linear Algebra	3.0
MATH 255	Differential Equations	3.0
MFET 101	Introduction to Manufacturing Engineering Technology	3.0
MFET 110	Industrial Safety	2.0
MFET 120	Manufacturing Processes	4.0
MFET 210	Statistical Process Control	3.0
PHYS 180A	General Physics I	4.0
PHYS 180B	General Physics II	4.0
PHYS 181A	General Physics Laboratory I	1.0
PHYS 181B	General Physics Laboratory II	1.0
PHYS 195	Mechanics	5.0
PHYS 196	Electricity and Magnetism	5.0
PHYS 197	Waves, Optics and Modern Physics	5.0

Total: 18.0

Summary

These courses emphasize the study of cultural, literary, and humanistic activities of human beings. Students evaluate and interpret the ways in which people through the ages in different cultures have responded to themselves and the world around them in cultural creation. Students also learn to value aesthetic understanding and incorporate these concepts when constructing value judgments. Common university majors in this emphasis include: Advertising, American Studies, Broadcast Media, Classics, Communication, Comparative Literature, Creative Writing, English, Ethics, Foreign Languages, Humanities, Journalism, Language Studies, Linguistics, Literature, Media Studies, Mass Communications, Philosophy, Public Relations, Religious Studies, Speech Communication, Television and Film, Women's Studies. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this major should be selected with the assistance of a San Diego City College counselor

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 18.0

Students should complete a minimum of 18 units in Social and Behavioral Science courses:

ADJU 101	Introduction to Administration of Justice	3.0
ADJU 102	Criminal Law I	3.0
ANTH 102	Introduction to Biological Anthropology	3.0
ANTH 103	Introduction to Cultural Anthropology	3.0
ANTH 104	Laboratory in Biological Anthropology	1.0
ANTH 107	Introduction to Archaeology	3.0
ANTH 115	Introduction to Archaeological Field Work	4.0
ANTH 210	Introduction to the Indigenous People of California	3.0
BLAS 100	Introduction to Black Studies	3.0
BLAS 104	Black Psychology	3.0
BLAS 115	Sociology from a Black Perspective	3.0
BLAS 116	Contemporary Social Problems from a Black Perspective	3.0
BLAS 120	Black Music	3.0
BLAS 130	The Black Family	3.0
BLAS 135	Introduction to Black Politics	3.0
BLAS 140A	African American History to Reconstruction	3.0
BLAS 140B	African American History since Reconstruction to the Present	3.0
BLAS 145A	Introduction to African History	3.0
BLAS 145B	Introduction to African History	3.0
BLAS 150	Black Women in Literature, Film and the Media	3.0
BLAS 155	African American Literature	3.0
BLAS 165	Sexuality and Black Culture	3.0
CHIC 110A	Introduction to Chicana and Chicano Studies	3.0
CHIC 110B	Introduction to Chicana and Chicano Studies	3.0
CHIC 130	Mexican Literature in Translation	3.0
CHIC 135	Chicana/o Literature	3.0
CHIC 138	Literature of La Raza in Latin America in Translation	3.0
CHIC 141A	United States History from a Chicano Perspective	3.0
CHIC 141B	United States History from a Chicano Perspective	3.0

CHIC 150	History of Mexico	3.0
CHIC 170	La Chicana	3.0
CHIC 190	Chicano Images in Film	3.0
CHIC 201	The Indigenous Tradition of Mexico and Ancient Mesoamerica	3.0
CHIC 210	Chicano Culture	3.0
CHIL 101	Human Growth and Development	3.0
CHIL 133	Curriculum: Language, Literacy, and Art	3.0
CHIL 135	Curriculum: Science, Math, and Music and Movement	3.0
CHIL 141	The Child, Family and Community	3.0
CHIL 151	Program Planning	3.0
CHIL 160	Observation and Assessment of Children	2.0
CHIL 161	Observations and Issues in Child Development	2.0
CHIL 162	Positive Child Guidance	3.0
CHIL 175	Infant-Toddler Growth and Development	3.0
CHIL 176	Principles of Infant-Toddler Caregiving	3.0
CHIL 180	Nutrition, Health and Safety for Children	3.0
CHIL 202	Administration of Early Childhood Programs	3.0
CHIL 210	Supervision of Early Childhood Programs	3.0
CISC 181	Principles of Information Systems	4.0
CISC 190	Java Programming	4.0
GEND 101	Introduction to Gender Studies	3.0
GEOG 102	Cultural Geography	3.0
GEOG 104	World Regional Geography	3.0
GISG 104	Geographic Information Science and Spatial Reasoning	3.0
GISG 110	Introduction to Mapping and Geographic Information Systems	3.0
HIST 100	World History I	3.0
HIST 101	World History II	3.0
HIST 105	Introduction to Western Civilization I	3.0
HIST 106	Introduction to Western Civilization II	3.0
HIST 109	History of the United States I	3.0
HIST 110	History of the United States II	3.0
HIST 115A	History of the Americas I	3.0
HIST 115B	History of the Americas II	3.0
HIST 120	Introduction to Asian Civilizations	3.0
HIST 121	Asian Civilizations in Modern Times	3.0
HIST 123	U.S. History from the Asian Pacific American Perspective	3.0
HUMS 101	Introduction to Human Aging	3.0
HUMS 110	Social Work Fields of Service	3.0
HUMS 120	Introduction to Social Work	3.0
LIBS 101	Information Literacy and Research Skills	1.0
		3.0
MATH 119	Elementary Statistics	3.0
OR		
POLI 201	Elementary Statistics for Political Science	3.0
OR		
PSYC 258	Behavioral Science Statistics	3.0
PEAC 101	Introduction to Peace Studies	3.0
POLI 101	Introduction to Political Science	3.0
POLI 102	Introduction to American Government	3.0
POLI 103	Comparative Politics	3.0
POLI 121	American Political Development	3.0

POLI 124	Power and Justice: An Introduction to Political Theory	3.0
POLI 140	Contemporary International Politics	3.0
PSYC 101	General Psychology	3.0
PSYC 135	Marriage and Family Relations	3.0
PSYC 137	Human Sexual Behavior	3.0
PSYC 155	Introduction to Personality	3.0
PSYC 161	Introduction to Counseling	3.0
PSYC 166	Introduction to Social Psychology	3.0
PSYC 230	Psychology of Lifespan Development	3.0
PSYC 245	Abnormal Psychology	3.0
PSYC 255	Introduction to Psychological Research	3.0
PSYC 260	Introduction to Physiological Psychology	3.0
PSYC 283	Introduction to Cognitive Psychology	3.0
SOCO 101	Principles of Sociology	3.0
SOCO 110	Contemporary Social Problems	3.0
SOCO 125	Sociology of the Family	3.0
SOCO 150	Sociology of Latinos/Latinas	3.0
SOCO 145	Health and Society	3.0
SOCO 201	Advanced Principles of Sociology	3.0
SOCO 220	Introduction to Research Methods in Sociology	3.0
SOCO 223	Globalization and Social Change	3.0
		5.0
SPAN 201	Third Course in Spanish	5.0
OR		
AMSL 220	American Sign Language Level III	5.0
OR		
ARAB 201A	Third Course in Arabic	5.0
OR		
FREN 201	Third Course in French	5.0
OR		
ITAL 201	Third Course in Italian	5.0

Total: 18.0

LIBERAL ARTS AND SCIENCES: VISUAL AND PERFORMING ARTS - ASSOCIATE OF ARTS DEGREE: CITY

Summary

The Liberal Arts and Sciences Visual and Performing Arts Associate Degree offers students theoretical and practical approaches to the Arts, including Fine Arts, Theatre Arts, Dance, Music, and Photography. The varied program of study allows students to select courses that optimize their artistic goals. Students may select a program of courses to prepare them for continued study at the university level and/ or for artistic work in the private sector.

Common university majors related to this emphasis include: Applied Design, Art, Art History, Arts and Crafts, Dance, Drama, Industrial Arts, Painting and Printmaking, Photography, Sculpture, Studio Arts, Multimedia, Theatre Arts, Performing Arts.

Common employment and business opportunities in the private sector related to this emphasis include: Audio and Video Equipment Technician, Sound Engineering Technician, Photographer, Art Educator, Arts Administrator, Ceramicist, Display Designer, Muralist, Painter, Sculptor, Amusement Park Entertainer/Dancer, Dance Instructor, Dance Company Manager, Dance Studio Owner, Stage Manager, Theatre/Stage Technical Work.

Note:

The Liberal Arts and Sciences Visual and Performing Arts Associate of Arts Degree enables students to complete an associate degree with a minimum of 18 units. It is highly recommended that students work with a San Diego City College Counselor when selecting courses to fulfill their transfer and/or career goals.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Requirements**COURSES REQUIRED FOR THE MAJOR:****Units:** 18.0

Students should complete a minimum of 18 units in Visual and Performing Arts courses. Courses can only be counted once toward the major.

ARTF 100	Art Orientation	3.0
ARTF 104	Artists and Designers Today	3.0
ARTF 109	Modern Art	3.0
ARTF 110	Art History: Prehistoric to Gothic	3.0
ARTF 111	Art History: Renaissance to Modern	3.0
ARTF 115	African Art	3.0
ARTF 125	Art History: Arts of the Asian Continent	3.0
ARTF 150A	Two-Dimensional Design	3.0
ARTF 151	Three-Dimensional Design	3.0
ARTF 155A	Freehand Drawing I	3.0
ARTF 155B	Freehand Drawing II	3.0
ARTF 156A	Drawing for Animation	3.0
ARTF 165A	Composition in Painting I	3.0
ARTF 165B	Composition in Painting II	3.0
ARTF 170A	Contemporary Crafts I	3.0
ARTF 170B	Contemporary Crafts II	3.0
ARTF 174A	Book Arts I	3.0
ARTF 175A	Sculpture I	3.0
ARTF 175B	Sculpture II	3.0
ARTF 195A	Ceramics I	3.0
ARTF 195B	Ceramics II	3.0
ARTF 196	Clay and Glaze Technology	3.0
ARTF 197A	Handbuilding Ceramics I	3.0
ARTF 197B	Handbuilding Ceramics II	3.0
ARTF 198A	Introduction to Printmaking I	3.0
ARTF 205A	Installation, Performance, and New Genres	3.0
ARTF 206	Art Entrepreneurship	3.0
ARTF 207A	Industrial and Architectural Ceramic Design I	3.0
ARTF 207B	Industrial and Architectural Ceramic Design II	3.0
ARTF 210A	Life Drawing I	3.0
ARTF 210B	Life Drawing II	3.0
ARTF 212	Sustainable Art and Design	3.0
DANC 111	Global Dance Traditions	2.0
DANC 112A	Ballet I	1.5
DANC 112B	Ballet II	1.5
DANC 112C	Ballet III	1.5
DANC 112D	Ballet IV	1.5
DANC 117A	Tap Dance I	1.5

DANC 117B	Tap Dance II	1.5
DANC 117C	Tap Dance III	1.5
DANC 117D	Tap Dance IV	1.5
DANC 122A	Hip Hop I	1.5
DANC 122B	Hip Hop II	1.5
DANC 122C	Hip Hop III	1.5
DANC 122D	Hip Hop IV	1.5
DANC 127	Movement for Wellness	2.0
DANC 130A	Dance Repertoire	1.0
DANC 137A	Jazz Dance I	1.5
DANC 137B	Jazz Dance II	1.5
DANC 137C	Jazz Dance III	1.5
DANC 137D	Jazz Dance IV	1.5
DANC 142A	Modern Dance I	1.5
DANC 142B	Modern Dance II	1.5
DANC 142C	Modern Dance III	1.5
DANC 142D	Modern Dance IV	1.5
DANC 145A	Ballroom Dance I	1.0-1.5
DANC 145B	Ballroom Dance II	1.0-1.5
DANC 150A	Dance Making: Ballet	1.0
DANC 151A	Dance Making: Jazz	1.0
DANC 152A	Dance Making: Modern	1.0
DANC 153A	Dance Making: Dance Theatre	1.0
DANC 176A	Dance Improvisation	1.5
DANC 176B	Dance Improvisation II	1.5
DANC 178A	Advanced Commercial Dance I	1.5
DANC 178B	Advanced Commercial Dance II	1.5
DANC 179A	Advanced Classical Dance I	1.5
DANC 179B	Advanced Classical Dance II	1.5
DANC 180A	Advanced Contemporary Dance I	1.5
DANC 180B	Advanced Contemporary Dance II	1.5
DANC 181	History of Dance	3.0
DANC 183	Music for Dance	2.0
DANC 253	Choreography	2.0
DANC 261A	Dance Performance I	2.0
DANC 261B	Dance Performance II	2.0
DANC 261C	Dance Performance III	2.0
DANC 261D	Dance Performance IV	2.0
DANC 271A	Stage Costuming for Dance	1.0-2.0
DANC 271B	Makeup for Dance Productions	1.0-2.0
DANC 271C	Lighting Design for Dance Production	1.0-2.0
DANC 271D	Sound Design for Dance Production	1.0-2.0
DRAM 103	Acting for Non-majors	3.0
DRAM 105	Introduction to Dramatic Arts	3.0
DRAM 107	Study of Filmed Plays	3.0
DRAM 108	Playwriting	3.0
DRAM 109	Theatre and Social Issues	3.0
DRAM 124	Makeup for the Stage	3.0
DRAM 123	Beginning Stagecraft	3.0
DRAM 126	Advanced Stagecraft	3.0
DRAM 132	Beginning Acting	3.0
DRAM 133	Intermediate Acting	3.0

DRAM 134	Beginning Voice for Actors	3.0
DRAM 136	Theatre History I: Ancient Greece to the Renaissance	3.0
DRAM 137	Theatre History II: Restoration to the Present	3.0
DRAM 143	Beginning Costuming	3.0
DRAM 165	Introduction to Stage Movement	3.0
DRAM 240A	Musical Theatre Repertoire I	4.0
DRAM 240B	Musical Theatre Repertoire II	4.0
DRAM 242A	Rehearsal and Performance I	3.0
DRAM 242B	Rehearsal and Performance II	3.0
MUSC 104	Composition Technology	3.0
MUSC 118	Music Entrepreneurship	3.0
MUSC 160	Introduction to Electro-Acoustic Music	3.0
MUSC 162	Introduction to Recording and Sound Reinforcement	3.0
MUSC 170A	Electro-Acoustic Ensemble I	1.0
MUSC 220A	Music Marketing and Promotion I	2.0
MUSC 252	Sound Design and Digital Audio Post Production	3.0
MUSC 260	Electro-Acoustic Music Composition	3.0
MUSC 262	Intermediate Recording and Sound Reinforcement	3.0
MUSI 108	The Business of Music	3.0
PHOT 100	Introduction to Black & White Photography	3.0
PHOT 109	Photographic Composition and Design	3.0
PHOT 125	Photo Business Operations	2.0
PHOT 143	Introduction to Digital Photography	3.0
PHOT 150	History of Photography	3.0
PHOT 180	Photo Editing: Lightroom	3.0
PHOT 181	Photo Editing: Photoshop	3.0
PHOT 259A	Photographic Portfolio I	3.0

Total: 18.0

LICENSED VOCATIONAL NURSE TO REGISTERED NURSE (ADVANCED PLACEMENT) - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The Associate of Science Degree in Nursing (ADN) LVN to RN step-up program curriculum prepares entry-level Registered Nurses (RN) as providers of care across the health/illness continuum and as members within the profession. The curriculum respects the individuality of the student and aims to provide a positive, innovative learning model that fosters the development of critical thinking and problem solving skills so that the Registered Nurse is equipped to deliver care to a culturally diverse population in a variety of healthcare settings. Registered Nurses collaborate with members of the health care team, are effective communicators, are politically aware, and demonstrate a commitment to lifelong learning. Upon successful completion of program requirements, graduates are eligible to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN). Admission to the program is by special application. Information packets are available online at: http://www.sdcity.edu/Portals/0/AcademicPrograms/ProgramsofInstruction/Nursing/2015/nursing_information_packet_9-11-2015.pdf. Additional information is available on the nursing website at: <http://www.sdcity.edu/AcademicPrograms/ProgramsofInstruction/NursingEducation.aspx>. Applications for the nursing program are also available on the Nursing website at: <http://www.sdcity.edu/Portals/0/AcademicPrograms/Nursing%20Education/sdcc%20RN%20application%205-29-2013.pdf>. Prospective students are responsible for obtaining these materials in order to acquaint themselves with the admission policies and procedures. The San Diego City College Nursing Education program is fully accredited by the California Board of Registered Nursing (BRN) and the Accreditation Commission for Education in Nursing (ACEN). Inquiries regarding accreditation may be made by contacting the BRN at P.O. Box 944210, Sacramento, CA 94244, 916-322-3350 or ACEN at 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326. 404-975-5000.

Note:

The Board of Registered Nursing (BRN) requires 6 units of Communication, verbal, written and group; satisfied by ENGL 101 and COMS 103; and 16 units of Natural, Behavioral and Social sciences; satisfied by the BIOL 205, 230 and 235 prerequisites, PSYC 101 & ANTH 103 or SOCO 101 or 110. This degree is designed to accommodate the differing requirements of a wide variety of transfer institutions. Students interested in transfer should meet with the nursing education counselor.

***It is strongly recommended that part or all of the general education requirements be completed prior to admission to the nursing education program.**

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Participate in life-long learning.
2. Use standards of nursing practice to perform and evaluate client care in entry-level practice.
3. Practice within the ethical, legal, and regulatory frameworks of the professional nursing practice.
4. Make clinical judgments and management decisions to ensure accurate and safe client care.
5. Apply concepts and skills to successfully pass the National Council Licensure Exam for Registered Nurses (NCLEX-RN).

Requirements**Program Prerequisites****Units: 13.0**

BIOL 205	General Microbiology	5.0
BIOL 230	Human Anatomy	4.0
BIOL 235	Human Physiology	4.0

COURSES REQUIRED FOR THE MAJOR:**Units: 32.0**

ENGL 101	Reading and Composition	3.0
PSYC 101	General Psychology	3.0
		3.0
COMS 103	Oral Communication	3.0
OR		
COMS 135	Interpersonal Communication	3.0
		3.0
ANTH 103	Introduction to Cultural Anthropology	3.0
OR		
SOCO 101	Principles of Sociology	3.0
OR		
SOCO 110	Contemporary Social Problems	3.0
NRSE 235	LVN to RN Transition	2.0
NRSE 240	Medical/Surgical Nursing III	4.5
NRSE 242	Mental Health & Gerontological Nursing	4.5
NRSE 244	Medical Surgical Nursing IV	4.5
NRSE 246	Leadership in Nursing	4.5

Additional courses required for the associate degree: *Humanities

Total: 45.0

LICENSED VOCATIONAL NURSE TO REGISTERED NURSE, THIRTY-UNIT OPTION - LICENSURE ONLY (NO PAPER AWARD GIVEN): CITY

Summary

The LVN to RN 30 Unit Option program curriculum prepares entry-level Registered Nurses (RN) as providers of care across the health/illness continuum and as members within the profession. The curriculum respects the individuality of the student and aims to provide a positive, innovative learning model that fosters the development of critical thinking and problem solving skills so that the Registered Nurse is equipped to deliver care to a culturally diverse population in a variety of healthcare settings. Registered Nurses collaborate with members of the health care team, are effective communicators, are politically aware, and demonstrate a commitment to lifelong learning. Upon successful completion of program requirements, the person completing the LVN to RN 30 Unit Option will be eligible to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN). Admission to the program is by special application. Information packets are available online at: http://www.sdcity.edu/Portals/0/AcademicPrograms/ProgramsofInstruction/Nursing/2015/nursing_information_packet_9-11-2015.pdf. Additional information is available on the nursing website at: <http://www.sdcity.edu/AcademicPrograms/ProgramsofInstruction/NursingEducation.aspx>. Applications for the nursing program are also available on the Nursing website at: <http://www.sdcity.edu/Portals/0/AcademicPrograms/Nursing%20Education/sdcc%20RN%20application%205-29-2013.pdf>. Prospective students are responsible for obtaining these materials in order to acquaint themselves with the admission policies and procedures. The San Diego City College Nursing Education program is fully accredited by the California Board of Registered Nursing (BRN) and the Accreditation Commission for Education in Nursing (ACEN). Inquiries regarding accreditation may be made by contacting the BRN at P.O. Box 944210, Sacramento, CA 94244, 916-322-3350 or ACEN at 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326. 404-975-5000.

Note:

The Board of Registered Nursing (BRN) requires 6 units of Communication, verbal, written and group; satisfied by ENGL 101 and COMS 103; and 16 units of Natural, Behavioral and Social Sciences; satisfied by the BIOL 205 and 235 prerequisites, PSYC 101 and ANTH 103 or SOCO 101 or 110. *It is strongly recommended that all of the general education requirements be completed prior to admission to the nursing education program.

Other States may not recognize the LVN to RN Thirty Unit Option as a method to satisfy the requirements for licensure as a Registered Nurse. Interested candidates are urged to contact the respective Boards of Nursing for additional information.

Learning Outcome(s):

1. Participate in life-long learning.
2. Use standards of nursing practice to perform and evaluate client care in entry-level practice.
3. Practice within the ethical, legal, and regulatory frameworks of the professional nursing practice.
4. Make clinical judgments and management decisions to ensure accurate and safe client care.
5. Apply concepts and skills to successfully pass the National Council Licensure Exam for Registered Nurses (NCLEX-RN).

Requirements

**PROGRAM PREREQUISITES:		Units: 9.0
BIOL 205	General Microbiology	5.0
BIOL 235	Human Physiology	4.0
COURSES REQUIRED FOR THE MAJOR:		Units: 20.0
NRSE 235	LVN to RN Transition	2.0
NRSE 240	Medical/Surgical Nursing III	4.5
NRSE 242	Mental Health & Gerontological Nursing	4.5
NRSE 244	Medical Surgical Nursing IV	4.5
NRSE 246	Leadership in Nursing	4.5
		Total: 29.0

LINEMAN - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The Associate of Science in Lineman is designed to prepare students for lineman opportunities. Students may also install, maintain, and operate intricate electrical systems, including power lines and underground equipment. Completion of this program will not guarantee employment as a Lineman with San Diego Gas and Electric Company.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Students who complete the program will be able to prepare and apply to take the State of California electrician certification exam.
2. Students who complete the program will be able to demonstrate a basic knowledge of generators and motors.
3. Students who complete the program will be able to evaluate electrical wiring diagrams as they relate to implementation.
4. Students who complete the program will be able to discuss and demonstrate knowledge of safety in the electrical field.
5. Students who complete the program will be able to demonstrate knowledge of electrical codes and blueprints.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 30.0

SDGE 90	Electric Lineman IA	5.0
SDGE 91	Electric Lineman IB	5.0
SDGE 92	Electric Lineman IIA	5.0
SDGE 93	Electric Lineman IIB	5.0
SDGE 94	Electric Lineman IIIA	5.0
SDGE 95	Electric Lineman IIIB	5.0

Total: 30.0

LINEMAN - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Lineman is designed to prepare students for lineman opportunities. Students may also install, maintain, and operate intricate electrical systems, including power lines and underground equipment. Completion of this program will not guarantee employment as a Lineman with San Diego Gas and Electric Company.

Learning Outcome(s):

1. Students who complete the program will be able to prepare and apply to take the State of California electrician certification exam.
2. Students who complete the program will be able to demonstrate a basic knowledge of generators and motors.
3. Students who complete the program will be able to evaluate electrical wiring diagrams as they relate to implementation.
4. Students who complete the program will be able to discuss and demonstrate knowledge of safety in the electrical field.
5. Students who complete the program will be able to demonstrate knowledge of electrical codes and blueprints.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 30.0

SDGE 90	Electric Lineman IA	5.0
SDGE 91	Electric Lineman IB	5.0
SDGE 92	Electric Lineman IIA	5.0
SDGE 93	Electric Lineman IIB	5.0
SDGE 94	Electric Lineman IIIA	5.0
SDGE 95	Electric Lineman IIIB	5.0

Total: 30.0

MANAGEMENT AND TEAM BUILDING* - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Certificate of Performance in Management and Team Building prepares individuals for a variety of employment opportunities in business. Emphasis is placed on managing a small business, leadership, communication, conflict resolution, and building teamwork dynamics. This certificate is designed for individuals who currently own, operate, or work for a business and want to strengthen their business skills.

Note:

The Business Department recommends that students planning to transfer completes BUSE 119 instead of BUSE 92.

This program is not eligible for federal financial aid in accordance with Federal regulations.

The Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 9.0

		3.0
BUSE 92	Introduction to Business Communication	3.0
OR		
BUSE 119	Business Communications	3.0
BUSE 150	Human Relations in Business	3.0
BUSE 155	Small Business Management	3.0

The Business Department recommends that students planning to transfer completes BUSE 119 instead of BUSE 092.

Total: 9.0

MANUFACTURING ENGINEERING TECHNOLOGY - OPTION: ELECTRONICS - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The Associate of Science Degree in Manufacturing Engineering Technology with Electronics Option prepares students with necessary skills, knowledge and experience to take on important roles as team members or leaders in an electronics manufacturing enterprise.

Note:

The courses for this degree include the courses which make up the Certificate of Performance in Advanced Manufacturing and the Certificate of Performance in Manufacturing Fundamentals as well as additional courses. MFET 110 Industrial Safety can be taken any semester available. Electronics course(s) may be taken when offered.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to describe different types of materials, process flows, equipment and techniques used to manufacture electronics products.
2. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to explain and apply the fundamentals of electronics applications and theory.
3. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to identify and apply quality control tools used in electronics manufacturing industry.
4. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to demonstrate the knowledge of design tools used in electronics industry for product development.
5. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to utilize, operate and measure the results of various test equipment to support product development.
6. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to identify and apply quality control tools and instruments used in a manufacturing environment.
7. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to demonstrate proficiency in programming and operation of NC/CNC equipment.
8. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to describe different types of materials, process flows, equipment and techniques used in manufacturing.
9. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to explain product design to optimize manufacturing efficiency.
10. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to identify and utilize CAD/CAM applications in various manufacturing processes.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 32.0

The courses for this degree include the courses which make up the Certificate of Performance in Advanced Manufacturing and the Certificate of Performance in Manufacturing Fundamentals as well as additional courses. MFET 110 Industrial Safety can be taken any semester available. Electronics course(s) may be taken when offered.

MFET 101	Introduction to Manufacturing Engineering Technology	3.0
MFET 105	Print Reading and Symbology	3.0
MFET 110	Industrial Safety	2.0

MFET 115	Properties of Materials	3.0
MFET 120	Manufacturing Processes	4.0
MFET 150	Manufacturing Automation	3.0
MFET 210	Statistical Process Control	3.0
MFET 230	Lean Manufacturing	3.0
		4.0
ELDT 123	Introduction to Digital Circuits	3.0
AND		
ELDT 123L	Digital Circuits Laboratory	1.0
		4.0
PHYS 100	Introductory Physics	4.0
OR		
		4.0
CHEM 100	Fundamentals of Chemistry	3.0
AND		
CHEM 100L	Fundamentals of Chemistry Laboratory	1.0

Total: 32.0

MANUFACTURING ENGINEERING TECHNOLOGY - OPTION: FABRICATION - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The Associate of Science Degree in Manufacturing Engineering Technology with Fabrication Option prepares students with necessary skills, knowledge and experience to take on important roles as team members or leaders in a fabrication manufacturing enterprise. The courses for this degree/certificate include the courses which make up the Certificate of Performance in Advanced Manufacturing and the Certificate of Performance in Manufacturing Fundamentals as well as additional courses.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to describe different types of materials, process flows, equipment and techniques used in manufacturing.
2. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to demonstrate proficiency in programming and operation of NC/CNC equipment.
3. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to identify and apply quality control tools and instruments used in a manufacturing environment.
4. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to explain product design to optimize manufacturing efficiency.
5. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to identify and utilize CAD/CAM applications in various manufacturing processes.
6. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to describe different types of materials, process flows, equipment and techniques used to manufacture electronics products.
7. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to explain and apply the fundamentals of electronics applications and theory.

8. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to identify and apply quality control tools used in electronics manufacturing industry.
9. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to demonstrate the knowledge of design tools used in electronics industry for product development.
10. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to utilize, operate and measure the results of various test equipment to support product development.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 36.0

The courses for this degree/certificate include the courses which make up the Certificate of Performance in Advanced Manufacturing and the Certificate of Performance in Manufacturing Fundamentals as well as additional courses.

MFET 101	Introduction to Manufacturing Engineering Technology	3.0
MFET 105	Print Reading and Symbology	3.0
MFET 110	Industrial Safety	2.0
MFET 115	Properties of Materials	3.0
MFET 120	Manufacturing Processes	4.0
MFET 150	Manufacturing Automation	3.0
MFET 210	Statistical Process Control	3.0
MFET 230	Lean Manufacturing	3.0
MACT 150	Intro/Computer Numerical Control (CNC)	4.0
MACT 160M	Introduction to CAD/CAM	4.0
		4.0
PHYS 100	Introductory Physics	4.0
OR		
		4.0
CHEM 100	Fundamentals of Chemistry	3.0
AND		
CHEM 100L	Fundamentals of Chemistry Laboratory	1.0

MFET 110 Industrial Safety can be taken any semester available. Electronics course(s) may be taken when offered.

Total: 36.0

MANUFACTURING FUNDAMENTALS - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Certificate of Performance on Manufacturing Fundamentals provides fundamental knowledge for students to enter the workforce in a manufacturing field.

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. Note:**

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses

must be completed within the San Diego Community College District.
 This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to describe different types of materials, process flows, equipment and techniques used in manufacturing.
2. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to demonstrate proficiency in programming and operation of NC/CNC equipment.
3. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to identify and apply quality control tools and instruments used in a manufacturing environment.
4. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to explain product design to optimize manufacturing efficiency.
5. Upon successful completion of the Manufacturing Engineering Technology program with the option in Fabrication Manufacturing, the student will be able to identify and utilize CAD/CAM applications in various manufacturing processes.
6. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to describe different types of materials, process flows, equipment and techniques used to manufacture electronics products.
7. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to explain and apply the fundamentals of electronics applications and theory.
8. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to identify and apply quality control tools used in electronics manufacturing industry.
9. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to demonstrate the knowledge of design tools used in electronics industry for product development.
10. Upon successful completion of the Manufacturing Engineering Technology program with the option in Electronics Manufacturing, the student will be able to utilize, operate and measure the results of various test equipment to support product development.

Requirements

COURSES REQUIRED FOR THE MAJOR:		Units: 13.0
MFET 101	Introduction to Manufacturing Engineering Technology	3.0
MFET 105	Print Reading and Symbology	3.0
MFET 115	Properties of Materials	3.0
MFET 120	Manufacturing Processes	4.0
		Total: 13.0

MATHEMATICS - ASSOCIATE IN SCIENCE FOR TRANSFER DEGREE: CITY

Summary

The Associate in Science for Transfer in Mathematics is intended for students who plan to complete a bachelor's degree in Mathematics or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. Students who complete this degree and transfer to a participating CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor's degree. It may not be appropriate preparation for students transferring to a CSU campus that does not accept the degree. Students who plan to complete this degree should consult a counselor for additional information about participating CSU campuses as well as university admission, degree and transfer requirements. NOTE: It is recommended that students intending to transfer to San Diego State University's (SDSU) Mathematics, Emphasis in Science major should complete the

courses marked with a "#". Students intending to transfer into this major at other CSUs should consult with a counselor and visit www.assist.org for guidance on appropriate coursework.

Award Notes:

The following is required for all AA-T or AS-T degrees:

- Completion of 60 semester units that are eligible for transfer to the California State University
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Minimum grade of "C" or "P" or better for each course in the major. Students should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.

Learning Outcome(s):

1. Students will know about on-campus resources that will promote success in their math classes. This outcome expands into the transfer level coursework.
2. Students who complete this program will be able to apply technology to enhance mathematical thinking and understanding and to solve mathematical problems.
3. Students who complete this program will be able to solve routine mathematical problems using proper mathematical notation, in multiple ways if applicable.
4. Students who complete this program will be able to apply mathematical skills to solve and accurately describe their process for real-world problems relevant to their major.
5. Students who complete this program will be able to analyze, model, and clearly and effectively communicate a solution to a math problem.

Requirements

COURSES REQUIRED FOR THE MAJOR:		Units: 13.0
MATH 150	Calculus with Analytic Geometry I	5.0
MATH 151	Calculus with Analytic Geometry II	4.0
MATH 252	Calculus with Analytic Geometry III	4.0

Select one of the following courses:		Units: 3.0
MATH 254	Introduction to Linear Algebra	3.0
MATH 255	Differential Equations	3.0

Select one of the following courses if not selected above: (It is recommended that students select courses that meet lower division major preparation requirements for their transfer university.) **Units: 3.0-5.0**

MATH 107	Introduction to Scientific Programming	4.0
AND		3.0
MATH 107L	Introduction to Scientific Programming Lab	1.0
		3.0
MATH 119	Elementary Statistics	3.0
OR		
PSYC 258	Behavioral Science Statistics	3.0
		3.0
MATH 245	Discrete Mathematics	3.0
		3.0

MATH 254	Introduction to Linear Algebra	3.0
OR		
MATH 255	Differential Equations	3.0
CISC 186	Visual Basic Programming	4.0
CISC 190	Java Programming	4.0
CISC 192	C/C++ Programming	4.0
PHYS 195	Mechanics	5.0

¹MATH 254 or MATH 255 if not use in category A above.

Total: 19.0-21.0

MATHEMATICS - ASSOCIATE OF ARTS DEGREE: CITY

Summary

Mathematics is the study of numbers, structures, and associated relationships using rigorously defined literal, numerical and operational symbols. Given certain conditions about systems of numbers or other objects, mathematicians derive conclusions based on logical arguments. Basic mathematical skills enable a person to solve numerical problems encountered in daily life, and more advanced skills have numerous applications in the physical, social, and life sciences.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Students will know about on-campus resources that will promote success in their math classes. This outcome expands into the transfer level coursework.
2. Students who complete this program will be able to apply technology to enhance mathematical thinking and understanding and to solve mathematical problems.
3. Students who complete this program will be able to solve routine mathematical problems using proper mathematical notation, in multiple ways if applicable.
4. Students who complete this program will be able to apply mathematical skills to solve and accurately describe their process for real-world problems relevant to their major.
5. Students who complete this program will be able to analyze, model, and clearly and effectively communicate a solution to a math problem.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 19.0

MATH 150	Calculus with Analytic Geometry I	5.0
MATH 151	Calculus with Analytic Geometry II	4.0
MATH 245	Discrete Mathematics	3.0
MATH 252	Calculus with Analytic Geometry III	4.0
MATH 254	Introduction to Linear Algebra	3.0

Select 3-4 units from:

Units: 3.0-4.0

MATH 107	Introduction to Scientific Programming	3.0
AND		
MATH 107L	Introduction to Scientific Programming Lab	1.0
MATH 119	Elementary Statistics	3.0

MATH 255	Differential Equations	3.0
PHIL 101	Symbolic Logic	3.0

Total: 22.0-23.0

MECHANICAL DESIGN - CERTIFICATE OF PERFORMANCE: CITY

Summary

Mechanical Design Technology graduates pursue careers in industry in the areas of industrial machinery, consumer products, construction, automotive, power transmission, automation, and other mechanical machinery related fields. Related areas of employment include sales, manufacturing and testing mechanical products. Graduates create designs as well as analyze and specify the components and systems of machinery and products.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Students who complete the program will be able to use a three-dimensional software to develop a mechanical design.
2. Students who complete the program will be able to generate MasterCAM programs at a basic level for both the Computer Numerical Control (CNC) Mill and CNC Lathe.
3. Students who complete the program will be able to demonstrate knowledge of print reading and symbology.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 9.0

MACT 150	Intro/Computer Numerical Control (CNC)	4.0
		3.0
MFET 105	Print Reading and Symbology	3.0
OR		
ENGE 108	Dimensioning and Tolerancing	3.0
ENGE 151	Computer-Aided Design	2.0

Total: 9.0

MECHANICAL DESIGN TECHNOLOGY - CERTIFICATE OF PERFORMANCE: CITY

Summary

Mechanical Design Technology graduates pursue careers in industry in the areas of industrial machinery, consumer products, construction, automotive, power transmission, automation, and other mechanical machinery related fields. Related areas of employment include sales, manufacturing and testing mechanical products. Graduates create designs as well as analyze and specify the components and systems of machinery and products.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Use a three-dimensional software to develop a mechanical design.
2. Generate MasterCAM programs at a basic level for both the Computer Numerical Control (CNC) Mill and CNC Lathe.

- Demonstrate knowledge of print reading and symbology.

Requirements

MECHANICAL SYSTEMS AND SOLID-STATE ELECTRONICS TECHNICIAN - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The Associate of Science in Mechanical Systems and Solid-State Electronics Technician provides students with competencies fundamental for preparing for employment or advanced training in heating, ventilation, air-conditioning (HVAC/R) and appliance installation, maintenance, and repair. The pathway includes preparation for a Class C California License and various industry-recognized certifications pertaining to the HVAC/R industry.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

- Students who complete the program will be able to trace power and control voltages in the diagnosis of HVACR equipment.
- Students who complete the program will be able to utilize knowledge of the Refrigeration Cycle to charge a typical AC system.
- Students who complete the program will be able to articulate the effects of deficient or excessive sub-cooling, superheat, air flow or water flow through an HVACR system.
- Students who complete the program will be able to correctly diagnose and repair HVACR equipment using a minimum of replacement parts.
- Students who complete the program will be able to size and design the HVACR system for a structure or commercial application

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 30.0

AIRE 60	Construction Safety and Health	2.0
AIRE 94	HVAC/R Certification Training	3.0
AIRE 100	Basic Refrigeration & AC Theory	4.0
AIRE 103	Basic Refrigeration & AC Lab	2.0
AIRE 124	Power & Control Systems Theory	3.0
AIRE 125	Power & Control Systems Lab	2.0
AIRE 132	Advanced Refrigeration & AC Theory	3.0
AIRE 133	Advanced Refrigeration & AC Lab	2.0
AIRE 144	Direct Digital Controls Theory	4.0
AIRE 145	Direct Digital Controls Lab	2.0
		3.0
EGEE 50	Building Science Principles	3.0
OR		
EGEE 55	Air Quality Management and Systems	3.0

Total: 30.0

MECHANICAL SYSTEMS AND SOLID-STATE ELECTRONICS TECHNICIAN - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Mechanical Systems and Solid-State Electronics Technician provides students with competencies fundamental for preparing for employment or advanced training in heating, ventilation, air-

conditioning (HVAC/R) and appliance installation, maintenance, and repair. The pathway includes preparation for a Class C California License and various industry-recognized certifications pertaining to the HVAC/R industry.

Learning Outcome(s):

1. Students who complete the program will be able to trace power and control voltages in the diagnosis of HVACR equipment.
2. Students who complete the program will be able to utilize knowledge of the Refrigeration Cycle to charge a typical AC system.
3. Students who complete the program will be able to articulate the effects of deficient or excessive sub-cooling, superheat, air flow or water flow through an HVACR system.
4. Students who complete the program will be able to correctly diagnose and repair HVACR equipment using a minimum of replacement parts.
5. Students who complete the program will be able to size and design the HVACR system for a structure or commercial application

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 30.0

AIRE 60	Construction Safety and Health	2.0
AIRE 94	HVAC/R Certification Training	3.0
AIRE 100	Basic Refrigeration & AC Theory	4.0
AIRE 103	Basic Refrigeration & AC Lab	2.0
AIRE 124	Power & Control Systems Theory	3.0
AIRE 125	Power & Control Systems Lab	2.0
AIRE 132	Advanced Refrigeration & AC Theory	3.0
AIRE 133	Advanced Refrigeration & AC Lab	2.0
AIRE 144	Direct Digital Controls Theory	4.0
AIRE 145	Direct Digital Controls Lab	2.0
		3.0
EGEE 50	Building Science Principles	3.0
OR		
EGEE 55	Air Quality Management and Systems	3.0

Total: 30.0

MECHANICAL SYSTEMS PROJECT DEVELOPMENT - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The Associate of Science in Mechanical Systems Project Development provides students with provides students with competencies fundamental for preparing for employment or advanced training in heating, ventilation, air-conditioning (HVAC/R) and appliance installation, maintenance, and repair. The pathway includes preparation for a Class C California License and various industry-recognized certifications pertaining to the HVAC/R industry.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Students who complete the program will be able to trace power and control voltages in the diagnosis of HVACR equipment.
2. Students who complete the program will be able to utilize knowledge of the Refrigeration Cycle to charge a typical AC system.
3. Students who complete the program will be able to articulate the effects of deficient or excessive sub-cooling, superheat, air flow or water flow through an HVACR system.
4. Students who complete the program will be able to correctly diagnose and repair HVACR equipment using a minimum of replacement parts.

- Students who complete the program will be able to size and design the HVACR system for a structure or commercial application

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 33.0

AIRE 60	Construction Safety and Health	2.0
AIRE 94	HVAC/R Certification Training	3.0
AIRE 100	Basic Refrigeration & AC Theory	4.0
AIRE 103	Basic Refrigeration & AC Lab	2.0
AIRE 122	Construction Drawings and Estimating	3.0
AIRE 123	Construction Drawings and Estimating Lab	1.0
AIRE 124	Power & Control Systems Theory	3.0
AIRE 125	Power & Control Systems Lab	2.0
AIRE 126	Fluid Flow Dynamics	3.0
AIRE 127	Fluid Flow Dynamics Lab	2.0
AIRE 138	HVAC System Design	3.0
AIRE 139	HVAC System Design Lab	2.0
		3.0
EGEE 50	Building Science Principles	3.0
OR		
EGEE 55	Air Quality Management and Systems	3.0

Total: 33.0

MECHANICAL SYSTEMS PROJECT DEVELOPMENT - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Mechanical Systems Project Development provides students with provides students with competencies fundamental for preparing for employment or advanced training in heating, ventilation, air conditioning (HVAC/R) and appliance installation, maintenance, and repair. The pathway includes preparation for a Class C California License and various industry-recognized certifications pertaining to the HVAC/R industry.

Learning Outcome(s):

- Students who complete the program will be able to trace power and control voltages in the diagnosis of HVACR equipment.
- Students who complete the program will be able to utilize knowledge of the Refrigeration Cycle to charge a typical AC system.
- Students who complete the program will be able to articulate the effects of deficient or excessive sub-cooling, superheat, air flow or water flow through an HVACR system.
- Students who complete the program will be able to correctly diagnose and repair HVACR equipment using a minimum of replacement parts.
- Students who complete the program will be able to size and design the HVACR system for a structure or commercial application

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 33.0

AIRE 60	Construction Safety and Health	2.0
AIRE 94	HVAC/R Certification Training	3.0
AIRE 100	Basic Refrigeration & AC Theory	4.0

AIRE 103	Basic Refrigeration & AC Lab	2.0
AIRE 122	Construction Drawings and Estimating	3.0
AIRE 123	Construction Drawings and Estimating Lab	1.0
AIRE 124	Power & Control Systems Theory	3.0
AIRE 125	Power & Control Systems Lab	2.0
AIRE 126	Fluid Flow Dynamics	3.0
AIRE 127	Fluid Flow Dynamics Lab	2.0
AIRE 138	HVAC System Design	3.0
AIRE 139	HVAC System Design Lab	2.0
		3.0
EGEE 50	Building Science Principles	3.0
OR		
EGEE 55	Air Quality Management and Systems	3.0

Total: 33.0

MENTAL HEALTH WORK - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

This certificate program is designed to prepare entry-level mental health workers for the workforce and to serve as a stepping stone toward higher academic degrees in the field of mental health. Potential entry-level mental health work positions include: mental health technician, social services assistant, residential home counselor, child care worker assistant, counselor aid, gerontology aid, research assistant, youth counselor, foster care worker, behavior analyst, case management aid, family services aid, patient care specialist and patient advocate assistant. Employment options for students who complete the Certificate of Achievement in Mental Health Work include Mental Health Worker/ Counselor, Behavioral Health Technician/Educator, Peer Mentor, Residential Counselor, Outreach Worker and Patient Care Specialist.

Note:

Students must complete all required courses within ten years in order to receive the Mental Health Work Certificate of Achievement.

The Psychology Department recommends that students take PSYC 276 Field Work in Psychological Services in their final semester.

Learning Outcome(s):

1. Students who complete the program will be able to analyze the influence of biological and environmental factors in the development of psychological processes such as sensation & perception, learning, memory, intelligence, personality, emotion, motivation, sexuality, mental health and social behavior.
2. Students who complete the program will be able to distinguish between various components of the nervous system, and explain how they work together to influence behavior and mental health processes.
3. Students who complete the program will be able to explain how the scientific method lends itself to the goals of psychological research and statistical analysis of research data.
4. Students who complete the program will be able to describe the field of psychology including its philosophical, theoretical, and scientific roots and the multitude of professional options.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 19.0

The Psychology Department recommends that students take PSYC 276 Field Work in Psychological Services in their final semester.

PSYC 101	General Psychology	3.0
PSYC 130	Introduction to Community Psychology	3.0
PSYC 161	Introduction to Counseling	3.0
PSYC 245	Abnormal Psychology	3.0
HUMS 95	Public Assistance and Benefits Program	1.0
HUMS 105	Family Strengthening Models in Behavioral Health	3.0
PSYC 276	Field Work in Psychological Services	3.0

Total: 19.0

MICROSOFT EXCEL ESSENTIALS - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Microsoft Excel Essentials Certificate of Performance is designed to provide students with the Microsoft Excel efficiency that is usually required for most positions, regardless of the industry. Emphasis is placed on building fundamental competencies for jobs requiring skills in developing and designing spreadsheets and charts and processing data in this widely-used Microsoft Office application.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Students who complete the program will be able to demonstrate interpersonal skills (soft skills) such as leadership, delegation of authority, accountability, consensus building, communication, conflict resolution, and teambuilding.
2. Students who complete the program will be able to employ critical thinking as a basis for continual learning and problem solving.
3. Students who complete the program will be able to analyze work environments, labor force, and organizational types and structures.
4. Students who complete the program will be able to create office documents utilizing the Microsoft Office Suite programs (i.e. Word, Excel, Access, PowerPoint, Outlook, and Publisher).
5. Students who complete the program will be able to identify computer operating systems functions; define key features of different software applications; and demonstrate how to use a Web browser, and conduct an Internet search.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 5.0

CBTE 140	Beginning Microsoft Excel	2.0
CBTE 143	Intermediate Microsoft Excel	3.0

Total: 5.0

MICROSOFT OFFICE ESSENTIALS - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Microsoft Office Essentials Certificate of Performance is designed to provide students with the Microsoft Office efficiency that is usually required for most positions, regardless of the industry. Emphasis is placed on building fundamental competencies for jobs requiring skills in documenting, organizing information, delivering presentations, writing and preparing reports, and processing data in the widely-used Microsoft Office application.

*A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student’s transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Students who complete the program will be able to demonstrate interpersonal skills (soft skills) such as leadership, delegation of authority, accountability, consensus building, communication, conflict resolution, and teambuilding
2. Students who complete the program will be able to employ critical thinking as a basis for continual learning and problem solving.
3. Students who complete the program will be able to analyze work environments, labor force, and organizational types and structures.
4. Students who complete the program will be able to create office documents utilizing the Microsoft Office Suite programs (i.e. Word, Excel, Access, PowerPoint, Outlook, and Publisher).
5. Students who complete the program will be able to identify computer operating systems functions; define key features of different software applications; and demonstrate how to use a Web browser, and conduct an Internet search.

Requirements**COURSES REQUIRED FOR THE MAJOR:****Units: 4.0**

CBTE 164	Introduction to Microsoft Outlook	1.0
CBTE 180	Microsoft Office	3.0

Total: 4.0

MICROSOFT TECHNOLOGY SPECIALIST - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Certificate of Performance in Microsoft Technology Specialist provides students with an in-depth study of infrastructure, cloud services, and packaged software offerings of Microsoft Technology. This curriculum includes hands-on experience in virtual environments that simulate real-world scenarios using best practices and design patterns to architect and support optimal IT solutions using Microsoft’s products and services. This pathway includes preparation for industry-recognized certifications geared towards preparing students for a successful career in IT roles that are vital for building, protecting, and maintaining information and technology assets.

***A Certificate of Performance is a departmental award that does not appear on the student’s transcript. All courses must be completed within the San Diego Community College District. Note:**

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student’s transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Upon successful program completion, our graduates will apply security principles and practices to maintain operations in the presence of risks and threats.
2. Upon successful program completion, our graduates will function effectively as a member or leader of a team engaged in activities appropriate to the program’s discipline.
3. Upon successful program completion, our graduates will recognize professional responsibilities and make informed judgments in computing practice, taking into account legal, ethical, diversity, equity, inclusion, and accessibility principles consistent with the mission of the institution.
4. Upon successful program completion, our graduates will communicate effectively in a variety of professional contexts.

5. Upon successful program completion, our graduates will design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
6. Upon successful program completion, our graduates will analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 14.0

INWT 100	Computing Fundamentals (A+)	4.0
INWT 111	Windows Desktop Administration	3.0
INWT 112	Windows Infrastructure Administration	3.0
INWT 145	Linux Administration (Linux+)	4.0

Total: 14.0

MULTIMEDIA JOURNALISM - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Multimedia Journalism offers hands-on training and experience in the fundamentals of journalism, using current and emerging multimedia tools and technologies in our state-of-the-art facilities. The program emphasis is placed on planning, writing, producing, directing, editing, and performing across platforms. Other topics addressed include social media production and management, photojournalism and documentary photography, and studio operations. Students contribute to the award-winning City Times Media platform and its partners, including digital news, magazine, TV news, radio podcast and independent film. This program is designed for students interested in enhancing their skills and knowledge of journalism, students majoring in Journalism, and for those seeking entry-level employment in media-related industries. The skills acquired with this certificate may lead to employment, freelance work, or business ownership. These jobs include, but are not limited to, multimedia journalist, digital content producer, production assistant, news producer, on-air talent, news reporter, news writer, public information officer, communications director, social media producer, operations engineer, news photographer, audio engineer, studio camera operator, and sound technician.

Learning Outcome(s):

1. Apply principles of diversity, equity, and media law and ethics.
2. Conduct research and evaluate information by methods appropriate to the media professions in which they work.
3. Write in forms and styles appropriate for media professions, audiences, and purposes they serve.
4. Apply tools and technologies appropriate for the media professions in which they work.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 12.0

FJMP 130	Newswriting for Multiplatform Journalism	3.0
FJMP 131	Multimedia Journalism Reporting	3.0
FJMP 132	Multiplatform Journalism Production	3.0
OR		
FJMP 133	Broadcast News Production	3.0
		3.0
FJMP 143	On-Camera Performance	3.0
OR		
FJMP 144	Multi-Camera Studio Operations	3.0

Complete six (6) units from the following:

Units: 6.0

FJMP 134	Multiplatform Magazine Production	3.0
PHOT 215	Photojournalism and Documentary Photography	3.0
FJMP 142	Radio and Podcast Production	3.0
FJMP 232A	Multiplatform Journalism Workshop I	3.0
FJMP 232B	Multiplatform Journalism Workshop II	3.0
FJMP 233A	Broadcast News Workshop I	3.0
FJMP 233B	Broadcast News Workshop II	3.0

Total: 18.0

MULTIMEDIA JOURNALISM - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Certificate of Performance in Multimedia Journalism offers hands-on training and experience in the fundamentals of journalism, using current and emerging multimedia tools and technologies in our state-of-the-art facilities. The program emphasis is placed on planning, writing, producing, directing, editing, and performing across platforms. Other topics addressed include social media production and management, photojournalism and documentary photography, and studio operations. Students contribute to the award-winning City Times Media platform and its partners, including digital news, magazine, TV news, radio podcast and independent film. This program is designed for students interested in enhancing their skills and knowledge of journalism, students majoring in Journalism, and for those seeking entry-level employment in media-related industries.

The skills acquired with this certificate may lead to employment, freelance work, or business ownership. These jobs include, but are not limited to, multimedia journalist, digital content producer, production assistant, news producer, on-air talent, news reporter, news writer, public information officer, communications director, social media producer, operations engineer, news photographer, audio engineer, studio camera operator, and sound technician.

*This is a department award in recognition of information on the transcript and does not imply that a graduation requirement has been met.

Note:

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Apply principles of diversity, equity, and media law and ethics.
2. Conduct research and evaluate information by methods appropriate to the media professions in which they work.
3. Write in forms and styles appropriate for media professions, audiences, and purposes they serve.
4. Apply tools and technologies appropriate for the media professions in which they work.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 3.0

FJMP 102	Social Media in the Digital Age	3.0
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Complete six (6) units from the following:

Units: 6.0

FJMP 130	Newswriting for Multiplatform Journalism	3.0
FJMP 131	Multimedia Journalism Reporting	3.0
FJMP 132	Multiplatform Journalism Production	3.0

FJMP 133	Broadcast News Production	3.0
FJMP 134	Multiplatform Magazine Production	3.0
PHOT 215	Photojournalism and Documentary Photography	3.0
FJMP 142	Radio and Podcast Production	3.0
FJMP 143	On-Camera Performance	3.0
FJMP 144	Multi-Camera Studio Operations	3.0
FJMP 232A	Multiplatform Journalism Workshop I	3.0
FJMP 233A	Broadcast News Workshop I	3.0

Total: 9.0

MUSIC PRODUCTION TECHNOLOGY - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The Associate of Science in Music Production Technology is designed to provide students with practical, career-oriented skills in professional audio production using current music industry technologies. The certificate emphasizes basic musical fundamentals, live sound reinforcement, microphone and recording techniques, mixing and mastering skills, MIDI (Musical Instrument Digital Interface) sequencing and programming, audio software and hardware development, and audio post production for video and gaming. In addition, students are introduced to, and guided through, marketing and promotion skills using multimedia and social networking tools specific to the music industry.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. To prepare students for entry-level positions in the commercial music industry.
2. Recognize and incorporate music technology elements such as mixing, editing, mastering, sequencing, synthesis, signal flow, controller mapping, signal processing, elastic audio, automation, and quantization in the creation of original compositions.
3. Demonstrate an understanding of music business elements including music publishing, copyrights, licensing, management, marketing, music contracts, self promotion.
4. Demonstrate proficiency with sound design and post production audio techniques for TV, film, video, gaming, and multimedia formats.
5. Produce a professional quality portfolio in preparation for academic transfer or for sharing with potential clients and employers.
6. Demonstrate an understanding of the role of and opportunities with music technology in today's modern multi-cultural society.
7. Demonstrate an understanding of the history and development of music technology.
8. Demonstrate an understanding of the physics of sound, sound isolation, and room acoustics as it pertains to studio recording and audio production.
9. Demonstrate proficiency with industry standard notation and third party extension audio processing plug-in software including Sibelius and iZotope.
10. Demonstrate competent operation of and familiarity with common hardware equipment used in a professional level commercial recording studio environment including mixing consoles, pre-amps, microphones, patch bays, signal processors, and audio interfaces.
11. Utilize and demonstrate proficiency with music fundamentals, sound design principles in the creation of successful original music compositions in various formats.
12. Demonstrate proficiency with industry standard DAW (Digital Audio Workstations) software including Avid Pro Tools, Ableton Live, Reason Studios Reason, Cycling '74 Max, and Apple Logic Pro X.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 31.0

MUSC 104	Composition Technology	3.0
MUSC 118	Music Entrepreneurship	3.0
MUSC 160	Introduction to Electro-Acoustic Music	3.0
MUSC 162	Introduction to Recording and Sound Reinforcement	3.0
MUSC 170A	Electro-Acoustic Ensemble I	1.0
MUSC 170B	Electro-Acoustic Ensemble II	1.0
MUSC 170C	Electro-Acoustic Ensemble III	1.0
MUSC 220A	Music Marketing and Promotion I	2.0
MUSC 220B	Music Marketing and Promotion II	2.0
MUSC 260	Electro-Acoustic Music Composition	3.0
MUSC 252	Sound Design and Digital Audio Post Production	3.0
MUSC 262	Intermediate Recording and Sound Reinforcement	3.0
MUSI 108	The Business of Music	3.0

Total: 31.0

MUSICAL THEATRE - ASSOCIATE OF ARTS DEGREE: CITY

Summary

Musical Theatre is the most diversified area of the dramatic arts, our focus is to integrate three art forms—acting, singing, and dancing—into a single mode of expression. Our students explore the unique relationship that exists among these three disciplines in order to find employment as performers in a challenging job market or to prepare for transfer to similar programs at four-year institutions. Graduates are qualified to transfer with a major in Musical Theatre to UCs and CSUs as well as private colleges and universities. The Associate of Arts in Musical Theatre degree is designed to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each transfer institution, courses used to complete this degree should be selected with the assistance of a San Diego City College counselor.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Upon completion of the program, the student will be able to augment the discipline, cooperation, accountability, and perseverance necessary for positive self-identification and success in life.
2. Upon completion of the program, the student will be able to acquire inter-cultural and multi-cultural understanding, as well as perception of the universal and timeless human conflicts presented in dramatic works.
3. Upon completion of the program, the student will be able to identify the historical and cultural dimension of theatre, including the works of leading playwrights, actors, directors, and designers.
4. Upon completion of the program, the student will be able to explain and practice basic production processes such as acting, scenic, costume, and make-up design, and technical operation related to production.
5. Upon completion of the program, the student will be able to develop a structural approach to interpretation of language in dramatic text.
6. Upon completion of the program, the student will be able to effectively practice the theatre arts through involvement in the creation and presentation of public performances in theatre.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 26.5

DRAM 105	Introduction to Dramatic Arts	3.0
		3.0
DRAM 123	Beginning Stagecraft	3.0

OR		
DRAM 143	Beginning Costuming	3.0
DRAM 132	Beginning Acting	3.0
DRAM 133	Intermediate Acting	3.0
DRAM 134	Beginning Voice for Actors	3.0
DRAM 165	Introduction to Stage Movement	3.0
DRAM 205	The American Musical on Stage and Screen	3.0
DANC 112A	Ballet I	1.5
DANC 117A	Tap Dance I	1.5
DANC 137A	Jazz Dance I	1.5
MUSI 134A	Voice Class I	1.0

Total: 26.5

NAIL TECHNICIAN - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Nail Technician Certificate of Performance prepares students for the California Board of Barbering and Cosmetology Nail Technician exam and employment in a nail salon, nail salon management, and/or ownership of a nail salon. The goal of the Nail Technician Certificate of Performance is to prepare students for success as an employee, manager, and/or owner of a nail salon. The curriculum emphasizes sanitation, disinfection, and sterilization of the nail salon and nail technician tools and health and safety in the nail salon, as well as the basic anatomy of the hand and foot, nail diseases and disorders, manicuring, pedicuring, massage, reflexology, nail wraps, nail tips, nail design, chemistry for the nail technicians, and salon management.

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. Note:**

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Upon successful completion of the Cosmetology program the student will be able to apply cosmetology products and procedures in providing services to clients.
2. Upon successful completion of the Cosmetology program the student will be able to compare and contrast cosmetology procedures and practices.
3. Upon successful completion of the Cosmetology program the student will be able to explain basic cosmetology concepts, terms and definitions.
4. Upon successful completion of the Cosmetology program the student will be able to perform all practical applications required for the state board examination/state licensure.
5. Upon successful completion of the Cosmetology program the student will be able to utilize professional practice terminology and techniques as required by the California Bureau of Cosmetology examination.
6. Upon successful completion of the Cosmetology program the student will be able to practice safety, health, and sanitation procedures as set forth by the California Bureau of Cosmetology.
7. Upon successful completion of the Cosmetology program the student will be able to apply cosmetology concepts, procedures and practices to successfully pass the State Board Examination.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 11.0

COSM 85	Nail Technician I	5.5
COSM 86	Nail Technician II	5.5

Total: 11.0

NETWORK SECURITY I - CERTIFICATE OF PERFORMANCE: CITY

Summary

The expanding field of Information Technology (IT) comprises various facets, including network administration and cybersecurity, telecommunications, computer support, computer science, software programming, and system analysis and design. Almost every company's business strategy relies on the use of information systems in order to succeed and grow into the future. For this reason, San Diego City College's Computer Information Systems Program offers a bridge between business, computer science, and information technology. The Computer Information Systems program offers transfer and certification programs in the information system and information technology fields. These programs include computer literacy; application, web, and database programming; database administration; and a variety of vendor specific and vendor neutral industry-standard certification training. The roles of the various information system professionals are to design, implement, operate, and maintain a computer information system. These professionals also provide services in the networking areas such as systems engineers, systems administrators, security analysts, and network specialists. Graduates of the program possess an applied knowledge of fields, such as web programming, system infrastructure, databases, networking, e-business, project management, data center management, security, and information assurance.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Upon successful program completion, our graduates will apply security principles and practices to maintain operations in the presence of risks and threats.
2. Upon successful program completion, our graduates will function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
3. Upon successful program completion, our graduates will recognize professional responsibilities and make informed judgments in computing practice, taking into account legal, ethical, diversity, equity, inclusion, and accessibility principles consistent with the mission of the institution.
4. Upon successful program completion, our graduates will communicate effectively in a variety of professional contexts.
5. Upon successful program completion, our graduates will design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
6. Upon successful program completion, our graduates will analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 7.0

INWT 120	Network Fundamentals (Network+)	4.0
INWT 140	Security Fundamentals (Security+)	3.0

Total: 7.0

NETWORK SECURITY II - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Network Security II provides students with the intermediate-level skills to apply behavioral analytics to networks and devices to prevent, detect, and combat cybersecurity threats through

continuous security monitoring. This curriculum includes hands-on experience in virtual environments that simulate real-world scenarios in threat and vulnerability management, compliance and assessment, and incident response. This pathway includes preparation for industry-recognized certifications geared towards preparing students for a successful career in IT roles that are vital for building, protecting, and maintaining information and technology assets.

Note:

The Computer Information Systems Department requires students to complete all course requirements for the degree within five years.

Learning Outcome(s):

1. Upon successful program completion, our graduates will apply security principles and practices to maintain operations in the presence of risks and threats.
2. Upon successful program completion, our graduates will function effectively as a member or leader of a team engaged in activities appropriate to the program’s discipline.
3. Upon successful program completion, our graduates will recognize professional responsibilities and make informed judgments in computing practice, taking into account legal, ethical, diversity, equity, inclusion, and accessibility principles consistent with the mission of the institution.
4. Upon successful program completion, our graduates will communicate effectively in a variety of professional contexts.
5. Upon successful program completion, our graduates will design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program’s discipline.
6. Upon successful program completion, our graduates will analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 18.0

INWT 120	Network Fundamentals (Network+)	4.0
INWT 140	Security Fundamentals (Security+)	3.0
INWT 145	Linux Administration (Linux+)	4.0
INWT 170	Network Defense & Countermeasures (CySA+)	3.0
INWT 200	Ethical Hacking and Penetration Testing	4.0

Total: 18.0

OPERATING AND MAINTENANCE ENGINEERS - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

A four-year apprenticeship program for Operating and Maintenance Engineers. Applications for this program should be directed to Operating and Maintenance Engineers Trade, Local 501, 2501 Wester Third Street, Los Angeles, CA 90057. Completion Requirements: In addition to the academic requirements listed below, each apprentice must complete the prescribed number of hours of training during the period of the apprenticeship program as approved by the apprenticeship committee to receive the certificate of achievement or two-year degree.

Additional general education and graduation requirements for the associate degree are listed in the Academic Requirements section of catalog. The associate degree requires a minimum of 60 units.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

- 1.

Requirements

COURSES REQUIRED FOR THE MAJOR:**Units:** 35.0

ELCT 111	Electrical Theory I	3.0
ELCT 111L	Electrical Laboratory I	2.0
ELCT 121	Electrical Theory II	3.0
ELCT 121L	Electrical Laboratory II	2.0
AIRE 100	Basic Refrigeration & AC Theory	4.0
AIRE 103	Basic Refrigeration & AC Lab	2.0
AIRE 122	Construction Drawings and Estimating	3.0
AIRE 123	Construction Drawings and Estimating Lab	1.0
AIRE 124	Power & Control Systems Theory	3.0
AIRE 125	Power & Control Systems Lab	2.0
AIRE 126	Fluid Flow Dynamics	3.0
AIRE 127	Fluid Flow Dynamics Lab	2.0
AIRE 132	Advanced Refrigeration & AC Theory	3.0
AIRE 133	Advanced Refrigeration & AC Lab	2.0

Total: 35.0

OPERATING AND MAINTENANCE ENGINEERS - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

A four-year apprenticeship program for Operating and Maintenance Engineers. Applications for this program should be directed to Operating and Maintenance Engineers Trade, Local 501, 2501 Wester Third Street, Los Angeles, CA 90057. Completion Requirements: In addition to the academic requirements listed below, each apprentice must complete the prescribed number of hours of training during the period of the apprenticeship program as approved by the apprenticeship committee to receive the certificate of achievement or two-year degree.

Learning Outcome(s):

1.

Requirements**COURSES REQUIRED FOR THE MAJOR:****Units:** 35.0

ELCT 111	Electrical Theory I	3.0
ELCT 111L	Electrical Laboratory I	2.0
ELCT 121	Electrical Theory II	3.0
ELCT 121L	Electrical Laboratory II	2.0
AIRE 100	Basic Refrigeration & AC Theory	4.0
AIRE 103	Basic Refrigeration & AC Lab	2.0
AIRE 122	Construction Drawings and Estimating	3.0
AIRE 123	Construction Drawings and Estimating Lab	1.0
AIRE 124	Power & Control Systems Theory	3.0
AIRE 125	Power & Control Systems Lab	2.0
AIRE 126	Fluid Flow Dynamics	3.0
AIRE 127	Fluid Flow Dynamics Lab	2.0
AIRE 132	Advanced Refrigeration & AC Theory	3.0
AIRE 133	Advanced Refrigeration & AC Lab	2.0

Total: 35.0

ORGANIC GARDENING FOR THE CULINARY ARTS - CERTIFICATE OF PERFORMANCE: CITY

Summary

This certificate is designed for students who want to learn or improve their organic gardening knowledge and skills. The program provides the skills and knowledge to implement a healthier, sustainable food system that emphasizes small-scale urban food production.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Students who complete the program will be able to create a crop plan that is appropriate for the southwest region.
2. Students who complete the program will be able to evaluate the soil food web.
3. Students who complete the program will be able to design an organic urban farm that supports natural ecosystems, human health, and water conservation.
4. Students who complete the program will be able to understand and explain the components of a food system.
5. Students who complete the program will be able to understand and explain the three facets of sustainability (economic, environmental and social) both in general and as they apply specifically to landscaping, practices.
6. Students who complete the program will be able to demonstrate basic propagation techniques.
7. Students who complete the program will be able to identify plant disease and pests and incorporate integrated pest management and other organic strategies for a resilient food system.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 7.0

AGRI 102	Sustainable Urban Agricultural Practice	3.0
AGRI 128	Food Preservation Skills	1.0
AGRI 104	Sustainable Vegetable Production	3.0

Total: 7.0

PERSONAL TRAINER - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

This program trains students to be personal trainers and group exercise leaders. Emphasis is placed on the principles of exercise and physical conditioning, techniques of leading individual and group exercise classes, assessment protocols, strategies for working with special populations, appropriate methods to establishing healthy behavior, and the designing of personalized exercise programs. Students learn to develop safe, effective exercise plans for a variety of clients. The fitness industry continues to experience growth and has an ongoing need for professionally qualified group exercise instructors and personal trainers in health clubs, gyms, fitness centers, and sports medicine clinics. This program prepares students for the American College of Sports Medicine (ACSM), American Council of Exercise (ACE), National Academy of Sports Medicine (NASM), and many other National Commission for Certifying Agencies (NCCA) accredited Personal Trainer and Group Exercise Instructor certification exams. Please note that students enrolled in an occupational program must earn a grade of "C" or better in courses required for the major

Learning Outcome(s):

1. Personal Trainer: Upon successful completion the student will possess an applied understanding of physiology, kinesiology and nutrition as it applies to physical fitness. Students will demonstrate the ability to create safe and effective exercise/fitness programs for individuals or groups that meet the needs of the target audience.
2. Health: Upon successful completion the student will be able to identify the various dimensions of wellness, their interaction with one another, and then utilize strategies to create balance and successfully navigate life.

3. Exercise Science: Upon successful completion the student will improve in one or more of the 5 "Health-Related" Components of Fitness.
4. Athletics: Upon successful completion the student/athlete will improve their level of physical fitness, develop greater skill, and improve in the mental, psychological, and social aspects of their sport. They will create an educational plan with a counselor and develop recruiting tools to aid in transfer to a four year institution.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 20.0-23.0

EXSC 242B	Care and Prevention of Injuries	3.0
EXSC 280	Applied Exercise Physiology	2.0
EXSC 281	Applied Kinesiology	2.0
EXSC 282	Techniques of Weight Training	2.0
EXSC 283	Exercise and Fitness Assessment	2.0
EXSC 285	Exercise for Special Populations	2.0
EXSC 286	Techniques of Exercise Leadership	2.0
EXSC 288	Personal Training Professional Preparation	1.0
EXSC 270	Exercise Science Internship / Work Experience	1.0-4.0
NUTR 170	Nutrition and Fitness	3.0

Total: 20.0-23.0

PHILOSOPHY - ASSOCIATE IN ARTS FOR TRANSFER DEGREE: CITY

Summary

Program Description

The Associate in Arts in Philosophy for Transfer Degree is intended for students who plan to complete a bachelor's degree in Philosophy or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. Students who complete this degree and transfer to a participating CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor's degree. It may not be appropriate preparation for students transferring to a CSU campus that does not accept the degree. Students who plan to complete this degree should consult a counselor for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

NOTE: Students intending to transfer into this major at a CSU should consult with a counselor and visit www.assist.org for guidance on appropriate transfer coursework.

Award Notes: General Education: In addition to the courses listed above, students must complete one of the following general education options:

- The IGETC pattern is accepted by all CSU campuses and most UC campuses and majors. It is also accepted by some private/ independent or out of state universities.
- The CSU GE pattern is accepted by all CSU campuses and some private/independent or out of state universities. It is not accepted by the UC system. It is strongly recommended that students consult with a counselor to determine which general education option is most appropriate for their individual educational goals.

The following is required for all AA-T or AS-T degrees:

- Completion of 60 CSU-transferable semester units. No more than 60 units are required.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major. All courses in the major must be completed with a grade of "C" or "P" or better.

- Certified completion of the California State University General Education-Breadth pattern; OR the Intersegmental General Education Transfer Curriculum pattern.

Award Notes:

The following is required for all AA-T or AS-T degrees:

- Completion of 60 semester units that are eligible for transfer to the California State University
- Completion of a minimum of 18 semester units in an “AA-T” or “AS-T” major.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Minimum grade of “C” or “P” or better for each course in the major. Students should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.

Learning Outcome(s):

1. To increase the student’s critical thinking skills in considering fundamental philosophical concerns such as the nature of correct reasoning, the scope and limits of human knowledge, characteristics of reality and questions of value and obligation.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 9.0

		3.0
PHIL 100	Logic and Critical Thinking	3.0
OR		
PHIL 101	Symbolic Logic	3.0
		3.0
PHIL 102A	Introduction to Philosophy: Reality and Knowledge	3.0
OR		
PHIL 102B	Introduction to Philosophy: Values	3.0
		3.0
PHIL 104A	History Of Western Philosophy: Ancient to Medieval	3.0
OR		
PHIL 104B	History of Western Philosophy: Modern to Contemporary	3.0

Select two course (6 units) not selected above from the following:

Units: 6.0

(It is recommended that students select courses that meet lower division major preparation requirements for their transfer university)

PHIL 100	Logic and Critical Thinking	3.0
PHIL 101	Symbolic Logic	3.0
PHIL 102A	Introduction to Philosophy: Reality and Knowledge	3.0
PHIL 102B	Introduction to Philosophy: Values	3.0
PHIL 104A	History Of Western Philosophy: Ancient to Medieval	3.0
PHIL 104B	History of Western Philosophy: Modern to Contemporary	3.0
PHIL 205	Critical Thinking and Writing in Philosophy	3.0

Select one course (3 units) from the following;

Units: 3.0

PHIL 105	Contemporary Philosophy	3.0
PHIL 106	Asian Philosophy	3.0

PHIL 107	Reflections on Human Nature	3.0
PHIL 108	Perspectives on Human Nature and Society	3.0
PHIL 111	Philosophy In Literature and Other Fiction	3.0
PHIL 125	Philosophy of Women	3.0
PHIL 126	Introduction to Philosophy of Contemporary Gender Issues	3.0
PHIL 130	Philosophy of Art and Music	3.0
PHIL 131	Environmental Ethics	3.0

Total: 18.0

PHILOSOPHY - ASSOCIATE OF ARTS DEGREE: CITY

Summary

The study of philosophy acquaints students with the nature of philosophical activity and helps them increase critical thinking skills about fundamental philosophical concerns such as the nature of correct reasoning, the scope and limits of human knowledge, characteristics of reality, and questions of value and obligation. As such, the first objective of the philosophy program is to teach students how to think critically, with an emphasis on analytic reasoning. The program's second objective is to prepare students for university-level philosophy courses, and, because philosophy relates to many other academic disciplines and stresses systematic and abstract thought, university-level courses generally.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. To increase the student's critical thinking skills in considering fundamental philosophical concerns such as the nature of correct reasoning, the scope and limits of human knowledge, characteristics of reality and questions of value and obligation.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 6.0

PHIL 100	Logic and Critical Thinking	3.0
PHIL 101	Symbolic Logic	3.0

Select one of the two-semester sequences:

Units: 6.0

		6.0
		6.0
PHIL 102A	Introduction to Philosophy: Reality and Knowledge	3.0
AND		
PHIL 102B	Introduction to Philosophy: Values	3.0
OR		
		6.0
PHIL 104A	History Of Western Philosophy: Ancient to Medieval	3.0
AND		
PHIL 104B	History of Western Philosophy: Modern to Contemporary	3.0

Select six units from:

Units: 6.0

PHIL 102A	Introduction to Philosophy: Reality and Knowledge	3.0
PHIL 102B	Introduction to Philosophy: Values	3.0
PHIL 103	Historical Introduction To Philosophy	3.0

PHIL 104A	History Of Western Philosophy: Ancient to Medieval	3.0
PHIL 104B	History of Western Philosophy: Modern to Contemporary	3.0
PHIL 106	Asian Philosophy	3.0
PHIL 107	Reflections on Human Nature	3.0
PHIL 109	Issues in Social Philosophy	3.0
PHIL 110	Philosophy of Religion	3.0
PHIL 111	Philosophy In Literature and Other Fiction	3.0
PHIL 125	Philosophy of Women	3.0
PHIL 126	Introduction to Philosophy of Contemporary Gender Issues	3.0
PHIL 130	Philosophy of Art and Music	3.0
PHIL 131	Environmental Ethics	3.0
PHIL 205	Critical Thinking and Writing in Philosophy	3.0
PHIL 290	Independent Study	1.0-3.0

Total: 18.0

PHOTOGRAPHY - ASSOCIATE OF ARTS DEGREE: CITY

Summary

The Associate of Arts in Photography provides students with strong foundational coursework, emphasizing photographic concepts and camera handling techniques needed to enter the field. Students benefit from instructors who are working professionals in the field. Students receive hands-on experience in studio practices and current industry software to create projects for the real world. The award culminates in a professional portfolio that could be used to obtain employment. The award is primarily designed for students interested in entering the photography field and for students pursuing entry-level job opportunities related to photography. The award offers a wide range of theory, technique, and skills coursework from beginning through advanced levels that is structured to emphasize the development of creative expression, visual awareness, and technical skills required to enter the photography field or to prepare for transfer to four-year and private institutions. With an emphasis on process, conceptual strategy, and professional practices, students are given broad opportunities to develop a unique voice, vision, and viewpoint. Working with photography and illustration, students create images to illustrate a client's needs. Using both print and digital formats they produce projects that demonstrate an understanding of visual communication. This diverse body of work is refined into a strategic professional portfolio aimed at accomplishing each student's educational and employment goals.

Note:

The Photography Department requires students to complete all requirements for the degree within five years.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Upon successful completion students will be able to produce professional portfolios suitable for sharing with potential clients or gradschool entrance.
2. Upon successful completion students will be able to produce professional quality, colorcorrected photographs utilizing archival pigment and chromogenic materials.
3. Upon successful completion students will be able to create a marketing plan and business materials such as letterhead and business cards.
4. Upon successful completion students will be able to apply theories and principles of photographic light and lighting control for both film and digital capture.
5. Upon successful completion students will be able to illustrate abilities in various professional presentation techniques utilizing archival mounting and matting materials.
6. Upon successful completion students will be able to demonstrate an understanding of the history of photography and the role of photographs in today's society.

7. Upon successful completion students will be able to utilize Adobe Lightroom and Photoshop in digital color correction and image manipulation.
8. Upon successful completion students will be able to develop black and white film and make gelatin silver prints in a traditional darkroom.
9. Upon successful completion students will be able to utilize compositional elements in the creation of original photographs in various formats.
10. Upon successful completion students will be able to demonstrate competent use of reciprocal exposures utilizing shutter speeds and apertures.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 26.0

The Photography Department requires students to complete all requirements for the degree within five years.

PHOT 100	Introduction to Black & White Photography	3.0
PHOT 109	Photographic Composition and Design	3.0
PHOT 125	Photo Business Operations	2.0
PHOT 143	Introduction to Digital Photography	3.0
PHOT 150	History of Photography	3.0
PHOT 180	Photo Editing: Lightroom	3.0
PHOT 181	Photo Editing: Photoshop	3.0
PHOT 201A	Photographic Lighting Techniques I	3.0
PHOT 259A	Photographic Portfolio I	3.0

Complete six (6) units from the following:

Units: 6.0

PHOT 201B	Photographic Lighting Techniques II	3.0
PHOT 220	Portraiture	3.0
PHOT 230	Advertising Photography	3.0
PHOT 250	Fashion Photography	3.0
PHOT 257	Wedding and Event Photography	2.0

Complete nine (9) units from the following:

Units: 9.0

PHOT 135	Intermediate Black & White Photography	3.0
PHOT 165	Online Portfolio: Websites for Photographers	3.0
PHOT 205	Travel Photography	3.0
PHOT 215	Photojournalism and Documentary Photography	3.0
PHOT 235	Advanced Black and White Photography	3.0
PHOT 243	Advanced Digital Photography	3.0
PHOT 245	Landscape and Nature Photography	3.0

Total: 41.0

PHOTOGRAPHY - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Photography provides students with strong foundational coursework, emphasizing photographic concepts and camera handling techniques needed to enter the field. Students benefit from instructors who are working professionals in the field. Students receive hands-on experience in studio practices and current industry software to create projects for the real world. The award culminates in a professional portfolio that could be used to obtain employment. The award is primarily designed for students interested in entering the photography field and for students pursuing entry-level job opportunities related to photography. The award offers a wide range of theory, technique, and skills coursework from beginning through

advanced levels that is structured to emphasize the development of creative expression, visual awareness, and technical skills required to enter the photography field. With an emphasis on process, conceptual strategy, and professional practices, students are given broad opportunities to develop a unique voice, vision, and viewpoint. Working with photography and illustration, students create images to illustrate a client's needs. Using both print and digital formats they produce projects that demonstrate an understanding of visual communication. This diverse body of work is refined into a strategic professional portfolio aimed at accomplishing each student's educational and employment goals.

Note:

The Photography Department requires students to complete all requirements for the degree within five years.

Learning Outcome(s):

1. Upon successful completion students will be able to produce professional portfolios suitable for sharing with potential clients or gradschool entrance.
2. Upon successful completion students will be able to produce professional quality, colorcorrected photographs utilizing archival pigment and chromogenic materials.
3. Upon successful completion students will be able to create a marketing plan and business materials such as letterhead and business cards.
4. Upon successful completion students will be able to apply theories and principles of photographic light and lighting control for both film and digital capture.
5. Upon successful completion students will be able to illustrate abilities in various professional presentation techniques utilizing archival mounting and matting materials.
6. Upon successful completion students will be able to demonstrate an understanding of the history of photography and the role of photographs in today's society.
7. Upon successful completion students will be able to utilize Adobe Lightroom and Photoshop in digital color correction and image manipulation.
8. Upon successful completion students will be able to develop black and white film and make gelatin silver prints in a traditional darkroom.
9. Upon successful completion students will be able to utilize compositional elements in the creation of original photographs in various formats.
10. Upon successful completion students will be able to demonstrate competent use of reciprocal exposures utilizing shutter speeds and apertures.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 26.0

The Photography Department requires students to complete all requirements for the award within five years.

PHOT 100	Introduction to Black & White Photography	3.0
PHOT 109	Photographic Composition and Design	3.0
PHOT 125	Photo Business Operations	2.0
PHOT 143	Introduction to Digital Photography	3.0
PHOT 150	History of Photography	3.0
PHOT 180	Photo Editing: Lightroom	3.0
PHOT 181	Photo Editing: Photoshop	3.0
PHOT 201A	Photographic Lighting Techniques I	3.0
PHOT 259A	Photographic Portfolio I	3.0

Complete six (6) units from the following:

Units: 6.0

PHOT 201B	Photographic Lighting Techniques II	3.0
PHOT 220	Portraiture	3.0
PHOT 230	Advertising Photography	3.0

PHOT 250	Fashion Photography	3.0
PHOT 257	Wedding and Event Photography	2.0

Complete nine (9) units from the following:

Units: 9.0

PHOT 135	Intermediate Black & White Photography	3.0
PHOT 165	Online Portfolio: Websites for Photographers	3.0
PHOT 205	Travel Photography	3.0
PHOT 215	Photojournalism and Documentary Photography	3.0
PHOT 235	Advanced Black and White Photography	3.0
PHOT 243	Advanced Digital Photography	3.0
PHOT 245	Landscape and Nature Photography	3.0

Total: 41.0

PHYSICS - ASSOCIATE IN SCIENCE FOR TRANSFER DEGREE: CITY

Summary

The Associate in Science in Physics for Transfer Degree is intended for students who plan to complete a bachelor's degree in Physics or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. Students who complete this degree and transfer to a participating CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor's degree. It may not be appropriate preparation for students transferring to a CSU campus that does not accept the degree. Students who plan to complete this degree should consult a counselor for additional information about participating CSU campuses as well as university admission, degree and transfer requirements. It is recommended to take additional courses prior to transfer that may be articulated prep for the major to the transfer CSU. NOTE: It is recommended that students intending to transfer to San Diego State University (SDSU) BS in Physics, General Physics or BS in Physics, Modern Optics, should complete the courses marked with a "#". Students intending to transfer into this major at other CSUs should consult a counselor and visit www.assist.org for guidance on appropriate coursework.

Award Notes:

The following is required for all AA-T or AS-T degrees:

- Completion of 60 semester units that are eligible for transfer to the California State University
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Minimum grade of "C" or "P" or better for each course in the major. Students should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.

Learning Outcome(s):

1. Upon successful completion students will be able to utilize critical thinking skills in a variety of scientific applications.
2. Upon successful completion students will be able to examine the universe in a variety of courses.
3. Upon successful completion students will be able to communicate an understanding of the connections between science and other human activities.
4. Upon successful completion students will be able to demonstrate an understanding and appreciation of the scientific method.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 28.0

PHYS 195	Mechanics	5.0
PHYS 196	Electricity and Magnetism	5.0
PHYS 197	Waves, Optics and Modern Physics	5.0
MATH 150	Calculus with Analytic Geometry I	5.0
MATH 151	Calculus with Analytic Geometry II	4.0
MATH 252	Calculus with Analytic Geometry III	4.0

Total: 28.0

PHYSICS - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The Associate of Science Degree in Physics certifies that the student has emphasized the theory and practice of physics and has met the preparation for the major in physics and related fields, such as astronomy, geophysics, and engineering.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Upon successful completion students will be able to utilize critical thinking skills in a variety of scientific applications.
2. Upon successful completion students will be able to examine the universe in a variety of courses.
3. Upon successful completion students will be able to communicate an understanding of the connections between science and other human activities.
4. Upon successful completion students will be able to demonstrate an understanding and appreciation of the scientific method.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 38.0

CHEM 200	General Chemistry I - Lecture	3.0
CHEM 200L	General Chemistry I - Laboratory	2.0
CHEM 201	General Chemistry II - Lecture	3.0
CHEM 201L	General Chemistry II - Laboratory	2.0
MATH 150	Calculus with Analytic Geometry I	5.0
MATH 151	Calculus with Analytic Geometry II	4.0
MATH 252	Calculus with Analytic Geometry III	4.0
PHYS 195	Mechanics	5.0
PHYS 196	Electricity and Magnetism	5.0
PHYS 197	Waves, Optics and Modern Physics	5.0

Total: 38.0

POLITICAL SCIENCE - ASSOCIATE IN ARTS FOR TRANSFER DEGREE: CITY

Summary

Program Description

The Associate in Arts in Political Science for Transfer Degree is intended for students who plan to complete a bachelor's degree in Political Science or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. Students who complete this degree and transfer to a participating CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor's degree. It may

not be appropriate preparation for students transferring to a CSU campus that does not accept the degree. Students who plan to complete this degree should consult a counselor for additional information about participating CSU campuses as well as university admission, degree, and transfer requirements.

Note: Students intending to transfer into this major at a CSU should consult with a counselor and visit www.assist.org for guidance on appropriate transfer coursework.

General Education: In addition to the courses listed above, students must complete one of the following general education options:

- The IGETC pattern is accepted by all CSU campuses and most UC campuses and majors. It is also accepted by some private/ independent or out of state universities.
- The CSU GE pattern is accepted by all CSU campuses and some private/independent or out of state universities. It is not accepted by the UC system.

It is strongly recommended that students consult with a counselor to determine which general education option is most appropriate for their individual educational goals.

The following is required for all AA-T or AS-T degrees:

- Completion of 60 CSU-transferable semester units. No more than 60 units are required.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major. All courses in the major must be completed with a grade of "C" or "P" or better.
- Certified completion of the California State University General Education-Breadth pattern; OR the Intersegmental General Education Transfer Curriculum pattern.

Award Notes:

The following is required for all AA-T or AS-T degrees:

- Completion of 60 semester units that are eligible for transfer to the California State University
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Minimum grade of "C" or "P" or better for each course in the major. Students should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.

Learning Outcome(s):

1. Upon successful completion students will be able to identify and describe main concepts in the study of political science including, but not limited to, political power, sovereignty, nation-state; legitimacy; authority, political culture, political socialization, political ideology; social contract; separation of powers; federalism; unitary system; rule of law and globalization.
2. Upon successful completion students will be able to critically analyze the study of human behavior as it relates to political situations in college-level essays, written assignments, and research papers.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 12.0

POLI 101	Introduction to Political Science	3.0
POLI 102	Introduction to American Government	3.0
POLI 103	Comparative Politics	3.0

OR			
POLI 140	Contemporary International Politics		3.0

			3.0
POLI 201	Elementary Statistics for Political Science		3.0
OR			
MATH 119	Elementary Statistics		3.0

Select two courses not selected above from the following (6 units): **Units: 6.0**

POLI 103	Comparative Politics		3.0
POLI 121	American Political Development		3.0
POLI 124	Power and Justice: An Introduction to Political Theory		3.0
POLI 140	Contemporary International Politics		3.0
PADM 200	Introduction to Public Administration		3.0

Total: 18.0

POLITICAL SCIENCE - ASSOCIATE OF ARTS DEGREE: CITY

Summary

The primary objectives of the Political Science program are to meet general education requirements for American Institutions and Social Sciences for the associate degree and to complete general education requirements for baccalaureate degrees. Political science is the study of human behavior as it relates to political situations. It involves the examination of institutions, processes, people, ideas and policies. The study of political science develops cultural literacy, critical thinking and other useful skills.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Identify and describe main concepts in the study of political science including, but not limited to, political power, sovereignty, nation-state; legitimacy; authority, political culture, political socialization, political ideology; social contract; separation of powers; federalism; unitary system; rule of law and globalization.
2. Critically analyze the study of human behavior as it relates to political situations in college-level essays, written assignments, and research papers.

Requirements

COURSES REQUIRED FOR THE MAJOR: **Units: 18.0**

POLI 101	Introduction to Political Science		3.0
POLI 102	Introduction to American Government		3.0
POLI 103	Comparative Politics		3.0
POLI 121	American Political Development		3.0
POLI 140	Contemporary International Politics		3.0
			3.0
POLI 201	Elementary Statistics for Political Science		3.0
OR			
MATH 119	Elementary Statistics		3.0

Total: 18.0

PRE-ENGINEERING TECHNOLOGY - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Certificate of Performance in Pre-Engineering Technology prepares students for entry level positions in engineering, manufacturing, and other engineering technology jobs. Courses in this certificate provide basic skills and knowledge in machining, manufacturing, engineering drawing, and strengthens their communication skills in preparation for these positions. These foundation courses prepare students for more academically rigorous engineering technology programs.

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. Note:**

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 12.0

MFET 101	Introduction to Manufacturing Engineering Technology	3.0
MACT 150	Intro/Computer Numerical Control (CNC)	4.0
COMS 103	Oral Communication	3.0
ENGE 151	Computer-Aided Design	2.0

Total: 12.0

PROJECT LEAD THE WAY - CERTIFICATE OF PERFORMANCE: CITY

Summary

The San Diego City College Project Lead The Way program prepares students for the Engineering and Engineering Technology programs at the college, for transfer to four-year colleges and universities, and for employment in engineering and technical fields.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 12.0

ENGN 120	Principles of Engineering Technology	3.0
ENGN 122	Digital Electronics	3.0
ENGN 124	Engineering Design and Development	3.0
ENGN 126	Engineering Computer Integrated Technology	3.0

Total: 12.0

PSYCHOLOGY - ASSOCIATE IN ARTS FOR TRANSFER DEGREE: CITY

Summary

Psychology is a behavioral science that emphasizes the understanding of behavior (feelings, actions, and thoughts) of individuals. It should be noted that psychology typically focuses on the study of humans though psychologists have interests in other species. Psychology as a science is most closely related to the biological

sciences, although its application often involves personal and/or cultural philosophical beliefs or values. Students who major in psychology are expected to be able to think critically and scientifically about behavior, and be able to apply the principles of psychology to the understanding of behavior. The psychology program has two primary goals. The first is to provide the basic science courses that are foundations for further understanding of other courses in psychology and related fields as well as preparation for transfer to other institutions for further study. The second goal is to provide courses that may include additional information regarding psychology that are of general interest to community college students or are applications of psychological principles.

Award Notes:

The following is required for all AA-T or AS-T degrees:

- Completion of 60 semester units that are eligible for transfer to the California State University
- Completion of a minimum of 18 semester units in an “AA-T” or “AS-T” major.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Minimum grade of “C” or “P” or better for each course in the major. Students should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.

Learning Outcome(s):

1. Students who complete the program will be able to analyze the influence of biological and environmental factors in the development of psychological processes such as sensation & perception, learning, memory, intelligence, personality, emotion, motivation, sexuality, mental health and social behavior.
2. Students who complete the program will be able to distinguish between various components of the nervous system, and explain how they work together to influence behavior and mental health processes.
3. Students who complete the program will be able to explain how the scientific method lends itself to the goals of psychological research and statistical analysis of research data.
4. Students who complete the program will be able to describe the field of psychology including its philosophical, theoretical, and scientific roots and the multitude of professional options.

Requirements

COURSES REQUIRED FOR THE MAJOR: Units: 13.0

PSYC 101	General Psychology	3.0
PSYC 255	Introduction to Psychological Research	3.0
PSYC 258	Behavioral Science Statistics	3.0
PSYC 259	Behavioral Science Statistics Laboratory	1.0
PSYC 260	Introduction to Physiological Psychology	3.0

Complete six to seven units from the following: Units: 6.0-7.0

BIOL 107	General Biology-Lecture and Laboratory	4.0
OR		4.0
BIOL 210A	Introduction to the Biological Sciences I	4.0
PSYC 230	Psychology of Lifespan Development	3.0
PSYC 283	Introduction to Cognitive Psychology	3.0

The Psychology Department recommends that students planning to transfer to SDSU complete PSYC 201 in addition to the above.

Total: 19.0-20.0

PSYCHOLOGY - ASSOCIATE OF ARTS DEGREE: CITY

Summary

The psychology program is suited to the needs of both the two-year student and the transfer student who plan to major or minor in psychology or related fields. It provides students with an understanding of human behaviors and mental processes, and provides critical thinking and analytical skills that are applicable to many fields.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Students who complete the program will be able to analyze the influence of biological and environmental factors in the development of psychological processes such as sensation & perception, learning, memory, intelligence, personality, emotion, motivation, sexuality, mental health and social behavior.
2. Students who complete the program will be able to distinguish between various components of the nervous system, and explain how they work together to influence behavior and mental health processes.
3. Students who complete the program will be able to explain how the scientific method lends itself to the goals of psychological research and statistical analysis of research data.
4. Students who complete the program will be able to describe the field of psychology including its philosophical, theoretical, and scientific roots and the multitude of professional options.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 12.0

PSYC 101	General Psychology	3.0
PSYC 255	Introduction to Psychological Research	3.0
PSYC 258	Behavioral Science Statistics	3.0
PSYC 260	Introduction to Physiological Psychology	3.0

Select two courses from the following:

Units: 6.0

PSYC 137	Human Sexual Behavior	3.0
PSYC 166	Introduction to Social Psychology	3.0
PSYC 211	Learning	3.0
PSYC 230	Psychology of Lifespan Development	3.0
PSYC 245	Abnormal Psychology	3.0
PSYC 283	Introduction to Cognitive Psychology	3.0

Total: 18.0

PUBLIC ADMINISTRATION - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Public Administration is designed to provide students with a broad understanding of the Public Administration field and to prepare them for transfer to baccalaureate-level Public Administration programs. Emphasis is placed on administrative theory and practice at the local, state, and national levels, including governmental institutions and structures, public decision-making processes, organizational behavior, the effectiveness of criminal justice policies, urban policy, and land use considerations. Coursework encourages students to conduct research and critically analyze data while developing real-world management and leadership skills.

Students interested in transferring to San Diego State University in Public Administration may combine this Certificate with the Associate of Arts for Transfer in Law, Public Policy, and Society to facilitate preparation for the major and to enhance practical skills relevant to working in the public sector.

Learning Outcome(s):

1. Upon successful completion students will be able to identify and describe main concepts in the study of political science including, but not limited to, political power, sovereignty, nation-state; legitimacy; authority, political culture, political socialization, political ideology; social contract; separation of powers; federalism; unitary system; rule of law and globalization.
2. Upon successful completion students will be able to critically analyze the study of human behavior as it relates to political situations in college-level essays, written assignments, and research papers.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 23.0

PADM 200	Introduction to Public Administration	3.0
POLI 102	Introduction to American Government	3.0
POLI 201	Elementary Statistics for Political Science	3.0
OR		
MATH 119	Elementary Statistics	3.0
ACCT 116A	Financial Accounting	4.0
ECON 120	Principles of Macroeconomics	3.0
ECON 121	Principles of Microeconomics	3.0
CISC 181	Principles of Information Systems	4.0

Total: 23.0

RADIO AND PODCAST - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The AS Degree in Radio offers hands-on study in the theory and practice of planning, writing, producing and performing for radio newscasts. The program emphasis is placed on radio announcing, advanced radio production (analog and digital), and copy writing for broadcast announcements. Other topics addressed include radio station promotions, music library maintenance, and office administration. This program is designed for students interested in enhancing their skills and knowledge of radio broadcasting, students majoring in Radio and for those seeking entry-level employment in radio.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Upon successful completion of one of the emphasis in Radio/TV the student should be able to direct or preform as a voice or acting talent.
2. Upon successful completion of one of the emphasis in Radio/TV the student should be able to produce audio, video, film or multimedia projects.
3. Upon successful completion of one of the emphasis in Radio/TV the student should be able to operate audio, video or film equipment.
4. Upon successful completion of one of the emphasis in Radio/TV the student should be able to analyze media's impact on the public.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 25.0-26.0

RTVF 100	Introduction To Electronic Media	3.0
OR		

FJMP 101	Introduction to Mass Media	3.0
		3.0
RTVF 105	Media Performance	3.0
OR		
RTVF 106	Acting for Radio/Voice-Over	3.0
RTVF 107	Audio Production	3.0
RTVF 118	Television Studio Operations	3.0
		2.0-3.0
RTVF 130	Radio Programming	3.0
OR		
RTVF 132	Radio Remote Concert Production	2.0
RTVF 131	Advanced Radio Performance	4.0
RTVF 141	Radio News Production	4.0
RTVF 140	Radio and TV Newswriting	3.0

Total: 25.0-26.0

RADIO AND PODCAST - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Radio and Television program encompasses the fields of radio and television broadcasting, documentary film, digital media, digital media production, concert productions, and an expanding area of industrial video production applications and broadcast management. The programs degrees and certificates include all aspects of creation and production both behind and in front of cameras and microphones. KSDS-FM and the television production facilities provide the student with theoretical and practical applications.

Award Note:

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Upon successful completion of one of the emphasis in Radio/TV the student should be able to direct or preform as a voice or acting talent.
2. Upon successful completion of one of the emphasis in Radio/TV the student should be able to produce audio, video, film or multimedia projects.
3. Upon successful completion of one of the emphasis in Radio/TV the student should be able to operate audio, video or film equipment.
4. Upon successful completion of one of the emphasis in Radio/TV the student should be able to analyze media's impact on the public.

Requirements

COURSES REQUIRED FOR THE MAJOR: **Units: 6.0**

RTVF 105	Media Performance	3.0
RTVF 130	Radio Programming	3.0

Select nine units from the following: **Units: 9.0**

RTVF 106	Acting for Radio/Voice-Over	3.0
RTVF 107	Audio Production	3.0
RTVF 115	Radio and Television Management Principles	3.0
RTVF 132	Radio Remote Concert Production	2.0

RTVF 140	Radio and TV Newswriting	3.0
RTVF 141	Radio News Production	4.0
RTVF 242A	Radio Broadcast Concert Production Workshop - Sound Mixing	1.0
RTVF 242B	Radio Broadcast Concert Production Workshop - Producing	1.0
RTVF 247A	Radio Broadcasting Workshop - Production	1.0
OR		
RTVF 247B	Radio Broadcasting Workshop - News	1.0
OR		
RTVF 247C	Radio Broadcasting Workshop - Music	1.0
OR		
RTVF 247D	Radio Broadcasting Workshop - Programming	1.0
RTVF 290	Independent Study	1.0-3.0
		Total: 15.0

RADIO AND PODCAST - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Radio and Television program encompasses the fields of radio and television broadcasting, documentary film, digital media, digital media production, concert productions, and an expanding area of industrial video production applications and broadcast management. The programs degrees and certificates include all aspects of creation and production both behind and in front of cameras and microphones. KSDS-FM and the television production facilities provide the student with theoretical and practical applications.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Upon successful completion of one of the emphasis in Radio/TV the student should be able to direct or preform as a voice or acting talent.
2. Upon successful completion of one of the emphasis in Radio/TV the student should be able to produce audio, video, film or multimedia projects.
3. Upon successful completion of one of the emphasis in Radio/TV the student should be able to operate audio, video or film equipment.
4. Upon successful completion of one of the emphasis in Radio/TV the student should be able to analyze media's impact on the public.

Requirements

COURSES REQUIRED FOR THE MAJOR: **Units: 3.0**

RTVF 105	Media Performance	3.0
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Select six units from the following: **Units: 6.0**

RTVF 106	Acting for Radio/Voice-Over	3.0
RTVF 107	Audio Production	3.0
RTVF 115	Radio and Television Management Principles	3.0
RTVF 130	Radio Programming	3.0
RTVF 132	Radio Remote Concert Production	2.0
RTVF 140	Radio and TV Newswriting	3.0

RTVF 141	Radio News Production	4.0
RTVF 242A	Radio Broadcast Concert Production Workshop - Sound Mixing	1.0
RTVF 242B	Radio Broadcast Concert Production Workshop - Producing	1.0
OR		
RTVF 247A	Radio Broadcasting Workshop - Production	1.0
OR		
RTVF 247B	Radio Broadcasting Workshop - News	1.0
OR		
RTVF 247C	Radio Broadcasting Workshop - Music	1.0
OR		
RTVF 247D	Radio Broadcasting Workshop - Programming	1.0

Total: 9.0

REAL ESTATE - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The real estate program is designed for those interested in careers in real estate or for professionals wishing to upgrade their skills. The program offers certificates for Real Estate Salesperson, Real Estate Broker, and Real Estate Appraisal, as well as an Associate in Science Degree in Real Estate. The Certificate of Completion: Real Estate Salesperson provides students with the coursework required by the California Department of Real Estate(DRE) for qualification to take the real estate salesperson license examination. Completion of the Certificate of Achievement: Real Estate Broker and the Real Estate Associate in Science Degree provide coursework that meets the DRE's educational requirements for real estate broker licensure in California. Completion of the courses for the Certificate of Completion: Real Estate Appraisal fulfill the educational requirements of the Office of Real Estate Appraisers(OREA) for appraisal licensure. See individual certificates and degrees for additional information.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 19.0

Core Curriculum

BUSE 119	Business Communications	3.0
ENGL 101	Reading and Composition	3.0
BUSE 140	Business Law and the Legal Environment	3.0
CISC 181	Principles of Information Systems	4.0
ECON 120	Principles of Macroeconomics	3.0
PHIL 102B	Introduction to Philosophy: Values	3.0

Additional Real Estate Courses Required:

Units: 18.0

REAL 101	Real Estate Principles	3.0
REAL 105	Legal Aspects of Real Estate	3.0
REAL 110	Principles of Real Estate Appraisal I	3.0
REAL 115	Real Estate Finance	3.0
REAL 120	Real Estate Practice	3.0
REAL 125	Real Estate Economics	3.0

Six to seven units selected from the following:

Units: 6.0-7.0

ACCT 102	Basic Accounting	3.0
ACCT 116A	Financial Accounting	4.0
ESCR 101	Escrow Procedures - Beginning	3.0
REAL 130	Real Property Management	3.0
REAL 151	Real Estate Computer Applications	3.0
REAL 166	Common Interest Development	0.0

Additional Courses Required

Units: 7.0

BIOL 101	Issues in Environmental Science & Sustainability	4.0
COMS 180	Intercultural Communication	3.0

Total: 50.0-51.0

REAL ESTATE BROKER - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Real Estate Broker Certificate of Achievement meets the educational requirements for the Department of Real Estate (DRE) broker’s license in California. An applicant for the broker licensure examination must have completed eight college level courses in addition to fulfilling the experience requirement of two years full-time real estate sales work in the last five years or the equivalent outlined in the California DRE “Instructions to License Applicants.” For questions about DRE licensure requirements contact the DRE at 619-525-4192 or at www.dre.ca.gov.

Learning Outcome(s):

1. Students who complete the certificate will be able to leverage technology to manage and use information for decision making.
2. Students who complete the certificate will be able to analyze business scenarios to formulate and implement plans of action.
3. Students who complete the certificate will be able to develop and apply appropriate communication skills across various business settings.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 18.0

REAL 101	Real Estate Principles	3.0
REAL 105	Legal Aspects of Real Estate	3.0
REAL 110	Principles of Real Estate Appraisal I	3.0
REAL 115	Real Estate Finance	3.0
REAL 120	Real Estate Practice	3.0
REAL 125	Real Estate Economics	3.0

Six to seven units to be selected from the following:

Units: 6.0-7.0

ACCT 102	Basic Accounting	3.0
ACCT 116A	Financial Accounting	4.0
BUSE 140	Business Law and the Legal Environment	3.0
REAL 130	Real Property Management	3.0
REAL 151	Real Estate Computer Applications	3.0

Total: 24.0-25.0

Courses

REAL 101 Real Estate Principles**48-54 hours lecture; 3 units****Grading:** Letter Grade Only

This course is a study of the economics and transfer of land ownership. Emphasis is placed on the roles and responsibilities of the broker, the owner and the purchaser in the buying and selling of property. This course is designed for students majoring in real estate and anyone interested in the principles of real estate. This course applies toward the State's educational requirements for the real estate salesperson's license examination and as an elective for the broker's license exam. This course is intended for current or future real estate professionals.

FT; AA/AS; CSU.**REAL 105 Legal Aspects of Real Estate****48-54 hours lecture; 3 units****Grading:** Letter Grade Only

This course is a study of California Real Estate law. Emphasis is placed on the practical application of the law to legal problems arising from real estate transactions; statutory enactment and case law; legal instruments; zoning ordinances; and city and county planning decisions. This course applies toward the State's educational requirements for the broker's examination and as an elective for the real estate salesperson's license exam. This course is intended for current or future real estate professionals.

FT; AA/AS; CSU.**REAL 110 Principles of Real Estate Appraisal I****48-54 hours lecture; 3 units****Grading:** Letter Grade Only

This course is a study of basic appraisal principles, market analysis, and highest and best use. Topics include an overview of real property concepts and characteristics; legal consideration; value influences; real estate finance; types of value; economic principles; real estate markets and analysis; and ethics in appraisal practice. Course content also includes the tools needed to properly collect and analyze market data including market segmentation and disaggregation; supply side analysis; demand analysis; and highest and best use. This course applies toward the State's educational requirements for the broker's examination and the real estate appraiser trainee examination, and as an elective for the real estate salesperson's license exam. This course is intended for current or future real estate professionals. This course is intended for investors and current or future real estate professionals.

FT; AA/AS; CSU.**REAL 115 Real Estate Finance****48-54 hours lecture; 3 units****Grading:** Letter Grade Only

This course is a study of real estate finance. Emphasis is placed on the types of real estate lenders, the sources of income for lending purposes, and buyer qualifications. This course is designed for students majoring in real estate and for anyone interested in real estate finance. This course applies toward the State's educational requirements for the broker's examination and as an elective for the real estate salesperson's license exam. This course is intended for current or future real estate professionals.

FT; AA/AS; CSU.**REAL 120 Real Estate Practice****48-54 hours lecture; 3 units****Grading:** Letter Grade Only

This course examines the principles of real estate practice as they pertain to day-to-day operations in a real estate office. Topics include listings, valuations, prospecting, selling, financing, exchanges, taxation, and specialized brokerage operations. Professional and ethical activities are stressed. This course applies toward the State's educational requirements for both the broker's and the real estate salesperson's examination. This course is intended for current or future real estate professionals.

FT; AA/AS; CSU.

REAL 125 Real Estate Economics**48-54 hours lecture; 3 units****Grading:** Letter Grade Only

This course deals with trends and factors that affect the value of real estate; the nature and classification of land economics; the development of property, construction, and subdivision; economic values and real estate evaluation; real estate cycles and business fluctuations; residential market trends; and real property and special purpose property trends. This course applies toward the State's educational requirements for the broker's examination and as an elective for the real estate salesperson's license. This course is intended for current or future real estate professionals.

FT; AA/AS; CSU.**ACCT 102 Basic Accounting****48-54 hours lecture; 3 units****Grading:** Letter Grade Only

This course is a study of the theory and practice of the accounting process. Emphasis is placed on accounting transactions and bookkeeping. Topics include business documents; journals and ledgers; opening, adjusting and closing entries; and payroll. This course is intended for students interested in a practical approach to accounting. It can be used as preparation for the Certified Public Accountant (CPA) exam.

FT; AA/AS; CSU.**ACCT 116A Financial Accounting****64-72 hours lecture; 4 units****Grading:** Letter Grade Only**Advisory:** ACCT 102 with a Grade of "C" or better, or equivalent

This introductory course is an overview of financial accounting, why it is important, and how it is used by investors and creditors to make decisions. It covers the accounting information system, the recording and reporting of business transactions with a focus on the accounting cycle, the applications of generally accepted accounting principles (GAAP), the classified financial statements, and statement analysis. Other topics include issues related to asset, liability, and equity valuation; revenue and expense recognition; cash flows; internal controls; and ethics. This course is intended for students majoring in accounting or other fields related to business administration.

FT; AA/AS; CSU; UC; C-ID: ACCT 110.**BUSE 140 Business Law and the Legal Environment****48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent or BUSE 92 with a Grade of "C" or better, or equivalent

This course introduces students to the legal system, the laws that govern business in America, and the principles underlying fundamental legal concepts. Topics include judicial and administrative systems; ethics; contracts; torts; bankruptcy; agency; business organizations and ownership types; government agencies and regulation; protection of intellectual property interest; and the international business environment. This course is intended for students majoring in business and for others interested in business law.

FT; AA/AS; CSU; UC; C-ID: BUS 120, BUS 125.**REAL 130 Real Property Management****48-54 hours lecture; 3 units****Grading:** Letter Grade Only

This course is a practical approach to the principles and practices of managing income properties. Emphasis is placed on marketing, leasing, and maintenance of real property. This course applies toward the State's educational requirements for the broker's examination and as an elective for the real estate salesperson's license exam. This course is intended for current or future real estate professionals.

FT; AA/AS; CSU.

REAL 151 Real Estate Computer Applications

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This introductory course covers basic computer hardware, functions, software, and Internet resources available to enhance productivity for real estate professionals. The course introduces students to a myriad of general and commercial software products designed or adapted for use in the real estate industry. Emphasis is placed on Internet tools and resources for the California Real Estate Salesperson and Broker. This course applies toward the state's educational requirements for the California Real Estate Salesperson and Real Estate Broker license. It is intended for current or future real estate professionals.

FT; AA/AS; CSU.

REAL ESTATE SALESPERSON* - CERTIFICATE OF PERFORMANCE: CITY

Summary

This certificate is designed for students interested in exploring a career in real estate sales. Real Estate 101, Real Estate 120, and one additional course from the elective list are required to take the Real Estate Salesperson's License Examination. For questions about DRE licensure requirements, contact the DRE at 619-525-4192 or www.dre.ca.gov.

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. Note:**

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Students who complete the certificate will be able to develop and apply appropriate communication skills across various business.
2. Students who complete the certificate will be able to leverage technology to manage and use information for decision making.
3. Students who complete the certificate will be able to analyze business scenarios to formulate and implement plans of action.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 6.0

REAL 101	Real Estate Principles	3.0
REAL 120	Real Estate Practice	3.0

Select three to four units from the following:

Units: 3.0-4.0

ACCT 102	Basic Accounting	3.0
ACCT 116A	Financial Accounting	4.0
BUSE 140	Business Law and the Legal Environment	3.0
REAL 105	Legal Aspects of Real Estate	3.0
REAL 110	Principles of Real Estate Appraisal I	3.0
REAL 115	Real Estate Finance	3.0
REAL 125	Real Estate Economics	3.0
REAL 130	Real Property Management	3.0
REAL 151	Real Estate Computer Applications	3.0

Total: 9.0-10.0

RECORDKEEPING FOR A SMALL BUSINESS* - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Record Keeping for a Small Business certificate prepares a small business owner to organize business records and accurately prepare payroll.

Note:

*A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Students who complete the certificate will be able to accurately prepare all the state and federal payroll tax forms required by a small business in California.
2. Students who complete the certificate will be able to accurately prepare and organize accounting records and produce financial statements for a small business.

Requirements

COURSES REQUIRED FOR THE MAJOR:

		Units: 3.0
ACCT 128A	Recordkeeping	1.5
ACCT 128B	Payroll	1.5
		Total: 3.0

REGISTERED NURSE PROGRAM (GENERIC) - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

Nursing is a profession which provides health care to individuals of all ages. Nursing encompasses many activities including health promotion, health maintenance, health care during illness and injury and rehabilitation. Nurses apply knowledge from the biological, physical, behavioral and nursing sciences to care for clients in varied settings. The purpose of the San Diego City College Nursing program is to provide an educational opportunity for qualified individuals interested in a career in nursing. Upon successful completion of program requirements, graduates are eligible to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN). Admission to the program is by special application. Informational packets and applications for the program are available from the Nursing Admissions Advisor. Prospective students are responsible for obtaining these materials in order to acquaint themselves with the admission procedure. The San Diego City College Nursing Education program is fully accredited by the California Board of Registered Nursing (BRN) and the Accreditation Commission for Education in Nursing (ACEN). Inquiries regarding accreditation may be made by contacting the BRN at P.O. Box 944210, Sacramento, CA 94244, 916-322-3350 or ACEN at 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326. 404-975-5000.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Participate in life-long learning.
2. Use standards of nursing practice to perform and evaluate client care in entry-level practice.
3. Practice within the ethical, legal, and regulatory frameworks of the professional nursing practice.
4. Make clinical judgments and management decisions to ensure accurate and safe client care.

5. Apply concepts and skills to successfully pass the National Council Licensure Exam for Registered Nurses (NCLEX-RN).

Requirements

Program Prerequisites		Units: 13.0
BIOL 205	General Microbiology	5.0
BIOL 230	Human Anatomy	4.0
BIOL 235	Human Physiology	4.0

COURSES REQUIRED FOR THE MAJOR:		Units: 51.0
NRSE 101	Interactions in Nursing	1.0
NRSE 102	Fundamental Nursing Concepts and Skills I	4.5
NRSE 103	Fundamental Nursing Concepts and Skills II	4.5
NRSE 104	Pharmacology for Nursing Practice	1.0
ENGL 101	Reading and Composition	3.0
NRSE 105	Adult Health Nursing I	5.0
NRSE 107	Adult Health Nursing II	5.0
		3.0
SOCO 101	Principles of Sociology	3.0
OR		
SOCO 110	Contemporary Social Problems	3.0
PSYC 101	General Psychology	3.0
NRSE 202	Adult Health Nursing III	4.5
NRSE 203	Psychosocial and Gerontological Nursing	4.5
		3.0
COMS 103	Oral Communication	3.0
OR		
COMS 135	Interpersonal Communication	3.0
NRSE 204	Family Health Nursing	5.0
NRSE 205	Transition to the Registered Nurse Role	4.0

Additional Courses requires for the associate degree: *Physical Education activity course *Humanities *American Institutions

Total: 64.0

REQUIREMENTS - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The apprenticeship training program provides an opportunity for a balanced approach of on-the-job training and related technical instruction to achieve the position of journeyman in one of the state-approved programs. The length of the program depends on the trade selected and can range from two to five years. The program encourages the transfer of skills and knowledge from master journeymen and journeymen to apprentices to further employment potential in their trade. The California state system was established in 1939 with the passage of the Shelley-Maloney Apprenticeship Labor Standards Act. This act established the California Apprenticeship Council as the policy-making body; named the State Director of Industrial Relations as the administrator of apprenticeship; authorized the Division of Apprenticeship Standards (DAS) to approve training standards and provide assistance in the development of apprenticeship programs; and assigned responsibility for related and supplemental training to state and local boards responsible for vocational education. AFFIRMATIVE ACTION STATEMENT: The Apprenticeship Committees for whom the District provides related and supplemental instruction

have indicated they do not and will not discriminate against any employee or against any applicant for employment because of age, race, color, religion, handicap, ancestry, sex or national origin. **ADMISSION TO THE PROGRAM:** Indenture in a state-approved apprenticeship program is a required prerequisite to enroll in the apprenticeship and related supplemental classes. Applicants for apprenticeship should contact the employer, program coordinator or labor union listed before each program in the apprenticeship course description section of the catalog. Each of the individual programs listed in the apprenticeship course description section of the catalog is administered by an apprenticeship committee made up of member representatives from the respective trades or industries. This committee serves as the approval body for all apprenticeship matters relating to the particular trade. See our Website for more information. <http://www.sdccd.edu/econ>. **COMPLETION REQUIREMENTS:** In addition to the academic requirements listed below, each apprentice must complete the prescribed number of hours of training during the period of the apprenticeship program as approved by the apprenticeship committee to receive the certificate of achievement or two-year degree.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Requirements

REQUIREMENTS - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The apprenticeship training program provides an opportunity for a balanced approach of on-the-job training and related technical instruction to achieve the position of journeyman in one of the state-approved programs. The length of the program depends on the trade selected and can range from two to five years. The program encourages the transfer of skills and knowledge from master journeymen and journeywomen to apprentices to further employment potential in their trade. The California state system was established in 1939 with the passage of the Shelley-Maloney Apprenticeship Labor Standards Act. This act established the California Apprenticeship Council as the policy-making body; named the State Director of Industrial Relations as the administrator of apprenticeship; authorized the Division of Apprenticeship Standards (DAS) to approve training standards and provide assistance in the development of apprenticeship programs; and assigned responsibility for related and supplemental training to state and local boards responsible for vocational education. **AFFIRMATIVE ACTION STATEMENT:** The Apprenticeship Committees for whom the District provides related and supplemental instruction have indicated they do not and will not discriminate against any employee or against any applicant for employment because of age, race, color, religion, handicap, ancestry, sex or national origin. **ADMISSION TO THE PROGRAM:** Indenture in a state-approved apprenticeship program is a required prerequisite to enroll in the apprenticeship and related supplemental classes. Applicants for apprenticeship should contact the employer, program coordinator or labor union listed before each program in the apprenticeship course description section of the catalog. Each of the individual programs listed in the apprenticeship course description section of the catalog is administered by an apprenticeship committee made up of member representatives from the respective trades or industries. This committee serves as the approval body for all apprenticeship matters relating to the particular trade. See our Website for more information. <http://www.sdccd.edu/econ>. **COMPLETION REQUIREMENTS:** In addition to the academic requirements listed below, each apprentice must complete the prescribed number of hours of training during the period of the apprenticeship program as approved by the apprenticeship committee to receive the certificate of achievement or two-year degree.

Requirements

ROBOTICS ENGINEERING PROJECT TEAM LEVEL 1 - CERTIFICATE OF PERFORMANCE: CITY

Summary

Robotics is an engineering field that includes the electronic, mechanical and computer science disciplines. Students also participate in documentation, web design, construction, testing and deployment of an autonomous underwater vehicle for competition. The competition is sponsored by the Office of Naval Research (ONR) and the Association for Unmanned Vehicle Systems International (AUVSI).

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Requirements**COURSES REQUIRED FOR THE MAJOR:****Units: 4.5**

ENGE 50A	Introduction to Robotics Team Project Design	1.5
ENGE 50B	Introduction to Robotics Team Project Construction	1.5
ENGE 50C	Introduction to Robotics Team Project Testing and Deployment	1.5

Total: 4.5

ROBOTICS ENGINEERING PROJECT TEAM LEVEL 2 - CERTIFICATE OF PERFORMANCE: CITY

Summary

Robotics in an engineering field that includes the electronic, mechanical and computer science disciplines.

Students also participate in documentation, web design, construction, testing and deployment of an autonomous underwater vehicle for competition. The competition is sponsored by the Office of Naval Research (ONR) and the Association for Unmanned Vehicle Systems International (AUVSI).

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Requirements**COURSES REQUIRED FOR THE MAJOR:****Units: 4.5**

ENGE 50D	Advanced Robotics Team Project Design	1.5
ENGE 50E	Advanced Robotics Team Project Construction	1.5
ENGE 50F	Advanced Robotics Team Project Testing and Deployment	1.5

Total: 4.5

SAN DIEGO GAS AND ELECTRIC COMPANY LINEMAN APPRENTICESHIP - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The apprenticeship training program provides an opportunity for a balanced approach of on-the-job training and related technical instruction to achieve the position of journeyman in one of the state-approved programs. The length of the program depends on the trade selected and can range from two to five years. The program encourages the transfer of skills and knowledge from master journeymen and journeymen to apprentices to further employment potential in their trade. The California state system was established in 1939 with the passage of the Shelley-Maloney Apprenticeship Labor Standards Act. This act established the California Apprenticeship Council as the policy-making body; named the State Director of Industrial Relations as the administrator of apprenticeship; authorized the Division of Apprenticeship Standards (DAS) to approve training standards and provide assistance in the development of apprenticeship programs; and assigned responsibility for related and supplemental training to state and local boards responsible for vocational education. Affirmative Action Statement The Apprenticeship Committees for whom the District provides related and supplemental instruction have indicated they do not and will not discriminate against any employee or against any applicant for employment because of age, race, color, religion, handicap, ancestry, sex, or national origin. Admission To The Program Indenture in a state-approved apprenticeship program is a required prerequisite to enroll in the apprenticeship related and supplemental classes. Applicants for apprenticeship should contact the employer, program coordinator, or labor union listed before each program in the apprenticeship course description section of the

catalog. Each of the individual programs listed in the apprenticeship course description section of this catalog is administered by an apprenticeship committee made up of member representatives from the respective trades or industries. This committee serves as the approval body for all apprenticeship matters relating to the particular trade. See our website for more information: <http://sdcity.edu/academics/schools-programs/business-it-cosmo/apprenticeships.aspx>. Completion Requirements In addition to the academic requirements listed, each apprentice must complete the prescribed number of hours of training during the period of the apprenticeship program as approved by the apprenticeship committee to receive the certificate of achievement or two-year degree. Additional general education and graduation requirements for the associate degree are listed in the Academic Requirements section of catalog. The associate degree requires a minimum of 60 units.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. SDGE Company Apprenticeship students will read, comprehend and apply SDGE instructions and design standards for SDGE construction or production outcomes as required by SDGE practices and industry standards.
2. SDGE Company Apprenticeship students will identify and utilize equipment and related components of SDGE professions to meet SDGE standards for measurement, calibration and SDGE practices at Journeyman levels.
3. SDGE Company Apprenticeship students will illustrate procedures utilized for SDGE trade and industry specific practices in use of tools techniques and hands-on skills and competencies for Journeyman-level practices in SDGE occupations.
4. SDGE Company Apprenticeship students will demonstrate preparedness for successful transition to the Journeyman level designation and professional certification by the SDGE Apprenticeship Standards.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 30.0

SDGE 302	Electric Lineman IA	5.0
SDGE 304	Electric Lineman IB	5.0
SDGE 310	Electric Lineman IIA	5.0
SDGE 312	Electric Lineman IIB	5.0
SDGE 320	Electric Lineman IIIA	5.0
SDGE 322	Electric Lineman IIIB	5.0

Total: 30.0

SAN DIEGO GAS AND ELECTRIC COMPANY LINEMAN APPRENTICESHIP - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The apprenticeship training program provides an opportunity for a balanced approach of on-the-job training and related technical instruction to achieve the position of journeyman in one of the state-approved programs. The length of the program depends on the trade selected and can range from two to five years. The program encourages the transfer of skills and knowledge from master journeymen and journeywomen to apprentices to further employment potential in their trade. The California state system was established in 1939 with the passage of the Shelley-Maloney Apprenticeship Labor Standards Act. This act established the California Apprenticeship Council as the policy-making body; named the State Director of Industrial Relations as the administrator of apprenticeship; authorized the Division of Apprenticeship Standards (DAS) to approve training standards and provide assistance in the development of apprenticeship programs; and assigned responsibility for related and supplemental training to state and local boards responsible for vocational education. Affirmative Action Statement The Apprenticeship Committees for whom the District provides related and supplemental instruction have indicated they do not and will not discriminate against any employee or against any applicant for employment because of age, race, color, religion, handicap, ancestry, sex, or national origin. Admission To The Program Indenture in a state-approved apprenticeship program is a required prerequisite to enroll in the apprenticeship related and supplemental classes. Applicants for apprenticeship should contact the employer, program coordinator, or labor union listed before each program in the apprenticeship course description section of the

catalog. Each of the individual programs listed in the apprenticeship course description section of this catalog is administered by an apprenticeship committee made up of member representatives from the respective trades or industries. This committee serves as the approval body for all apprenticeship matters relating to the particular trade. See our website for more information: <http://sdcity.edu/academics/schools-programs/business-it-cosmo/apprenticeships.aspx>. Completion Requirements In addition to the academic requirements listed, each apprentice must complete the prescribed number of hours of training during the period of the apprenticeship program as approved by the apprenticeship committee to receive the certificate of achievement or two-year degree. Additional general education and graduation requirements for the associate degree are listed in the Academic Requirements section of catalog. The associate degree requires a minimum of 60 units.

Learning Outcome(s):

1. SDGE Company Apprenticeship students will read, comprehend and apply SDGE instructions and design standards for SDGE construction or production outcomes as required by SDGE practices and industry standards.
2. SDGE Company Apprenticeship students will identify and utilize equipment and related components of SDGE professions to meet SDGE standards for measurement, calibration and SDGE practices at Journeyman levels.
3. SDGE Company Apprenticeship students will illustrate procedures utilized for SDGE trade and industry specific practices in use of tools techniques and hands-on skills and competencies for Journeyman-level practices in SDGE occupations.
4. SDGE Company Apprenticeship students will demonstrate preparedness for successful transition to the Journeyman level designation and professional certification by the SDGE Apprenticeship Standards.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 30.0

SDGE 302	Electric Lineman IA	5.0
SDGE 304	Electric Lineman IB	5.0
SDGE 310	Electric Lineman IIA	5.0
SDGE 312	Electric Lineman IIB	5.0
SDGE 320	Electric Lineman IIIA	5.0
SDGE 322	Electric Lineman IIIB	5.0

Total: 30.0

SAN DIEGO TRANSIT ELECTRONIC TECHNICIAN APPRENTICESHIP - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The San Diego Transit apprenticeship program is a four-year program designed to prepare the student for a career as a bus Electronics Technician. For application to the program, please contact San Diego Transit Corporation, 100 16th Street, San Diego, CA 92101. More information is available at: www.sdcommute.com.

Additional general education and graduation requirements for the associate degree are listed in the Academic Requirements section of catalog. The associate degree requires a minimum of 60 units.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. SDGE Company Apprenticeship students will read, comprehend and apply Electronic Technician instructions and design standards for construction or production outcomes as required by San Diego Transit practices and industry standards.
2. SDGE Company Apprenticeship students will identify and utilize equipment and related components of bus electronic technicians to meet standards for measurement, calibration and bus electronic technician practices at Journeyman levels.
3. SDGE Company Apprenticeship students will illustrate procedures utilized for San Diego Bus Electronic Technicians practices in use of tools techniques and hands-on skills and competencies for Journeyman-level practices in San Diego Transit work as an apprentice bus electronic technician.

- SDGE Company Apprenticeship students will demonstrate preparedness for successful transition to Journeyman level designation and professional certification by the California Division of Apprenticeship Standards.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 32.0

MATH 96	Intermediate Algebra and Geometry	5.0
ELDT 123	Introduction to Digital Circuits	3.0
ELDT 123L	Digital Circuits Laboratory	1.0
ELDT 124	Basic DC Electronics	4.0
ELDT 124L	Basic DC Laboratory	1.0
ELDT 125	AC Circuit Analysis	4.0
ELDT 125L	DC/AC Circuit Analysis Laboratory with Pspice	1.0
ELDT 143	Semiconductor Devices	3.0
ELDT 143L	Semiconductor Devices Laboratory	1.5
ELDT 144	OP-AMPS, Sensors and Computers	3.0
ELDT 144L	OP-AMPS and Sensors Laboratory	1.5
ELDT 228	Communication Circuits	3.0
ELDT 228L	Communication Circuits and Certification Laboratory	1.0

Total: 32.0

SAN DIEGO TRANSIT ELECTRONIC TECHNICIAN APPRENTICESHIP - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The San Diego Transit apprenticeship program is a four-year program designed to prepare the student for a career as a bus Electronics Technician. For application to the program, please contact San Diego Transit Corporation, 100 16th Street, San Diego, CA 92101. More information is available at: www.sdcommute.com.

Learning Outcome(s):

- SDGE Company Apprenticeship students will read, comprehend and apply Electronic Technician instructions and design standards for construction or production outcomes as required by San Diego Transit practices and industry standards.
- SDGE Company Apprenticeship students will identify and utilize equipment and related components of bus electronic technicians to meet standards for measurement, calibration and bus electronic technician practices at Journeyman levels.
- SDGE Company Apprenticeship students will illustrate procedures utilized for San Diego Bus Electronic Technicians practices in use of tools techniques and hands-on skills and competencies for Journeyman-level practices in San Diego Transit work as an apprentice bus electronic technician.
- SDGE Company Apprenticeship students will demonstrate preparedness for successful transition to Journeyman level designation and professional certification by the California Division of Apprenticeship Standards.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 32.0

MATH 96	Intermediate Algebra and Geometry	5.0
ELDT 123	Introduction to Digital Circuits	3.0
ELDT 123L	Digital Circuits Laboratory	1.0
ELDT 124	Basic DC Electronics	4.0
ELDT 124L	Basic DC Laboratory	1.0
ELDT 125	AC Circuit Analysis	4.0

ELDT 125L	DC/AC Circuit Analysis Laboratory with Pspice	1.0
ELDT 143	Semiconductor Devices	3.0
ELDT 143L	Semiconductor Devices Laboratory	1.5
ELDT 144	OP-AMPS, Sensors and Computers	3.0
ELDT 144L	OP-AMPS and Sensors Laboratory	1.5
ELDT 228	Communication Circuits	3.0
ELDT 228L	Communication Circuits and Certification Laboratory	1.0

Total: 32.0

SAN DIEGO TROLLEY INC LIGHT RAIL VEHICLE LINEMAN APPRENTICESHIP - ASSOCIATE OF SCIENCE DEGREE:
CITY

Summary

A four-year apprenticeship in electro-mechanical trades at San Diego Trolley, Inc (SDTI). Applications for the following trades are accepted at 1255 Imperial Avenue, Suite 900, San Diego, CA 92101- 7492: 1. Assistant Lineman (Light Rail Vehicle); 2. Assistant Lineman (Wayside); 3. Lineman (Light Rail Vehicle); 4. Lineman (Wayside); 5. Revenue Maintainer I; and 6. Revenue Maintainer II.

Completion Requirements

Students are recommended to complete courses required for the major in the order presented. In addition to the academic requirements listed, each apprentice must complete the prescribed number of hours of training during the period of the apprenticeship program as approved by the apprenticeship committee to receive the certificate of achievement or two-year degree. Additional general education and graduation requirements for the associate degree are listed in the Academic Requirements section of catalog. The associate degree requires a minimum of 60 units.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. The San Diego Trolley Apprentice student will read, comprehend and apply Trolley trade instructions and design standards for construction or production outcomes in Trolley work as required by San Diego Trolley practices and industry standards.
2. The San Diego Trolley Apprentice student will identify and utilize equipment and related components of the trolley profession to meet San Diego Trolley strands for measurement, calibration and trolley practices at the Journeyman levels.
3. The San Diego Trolley Apprentice student will illustrate procedures utilized for the trolley practices in used of tools techniques and hands-on skills and competencies for the Journeyman-level practices in trolley occupations.
4. The San Diego Trolley Apprentice student will demonstrate preparedness for successful transition to the Journeyman level designation and professional certification by the California Division of Apprenticeship Standards.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 32.0-33.0

		3.0-4.0
BUSE 101	Business Mathematics	3.0
OR		
MATH 92	Applied Beginning and Intermediate Algebra	4.0
ELDT 124	Basic DC Electronics	4.0
ELDT 124L	Basic DC Laboratory	1.0

ELDT 123	Introduction to Digital Circuits	3.0
ELDT 123L	Digital Circuits Laboratory	1.0
TROL 301	San Diego Trolley Light Rail Vehicle I	2.0
TROL 302	San Diego Trolley Light Rail Vehicle II	1.5
ELDT 143	Semiconductor Devices	3.0
ELDT 143L	Semiconductor Devices Laboratory	1.5
AIRE 100	Basic Refrigeration & AC Theory	4.0
AIRE 103	Basic Refrigeration & AC Lab	2.0
TROL 303	San Diego Trolley Light Rail Vehicle III	3.0
TROL 304	San Diego Trolley Light Rail Vehicle IV	3.0

Total: 32.0-33.0

SAN DIEGO TROLLEY INC LIGHT RAIL VEHICLE LINEMAN APPRENTICESHIP - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

A four-year apprenticeship in electro-mechanical trades at San Diego Trolley, Inc (SDTI). Applications for the following trades are accepted at 1255 Imperial Avenue, Suite 900, San Diego, CA 92101- 7492: 1. Assistant Lineman (Light Rail Vehicle); 2. Assistant Lineman (Wayside); 3. Lineman (Light Rail Vehicle); 4. Lineman (Wayside); 5. Revenue Maintainer I; and 6. Revenue Maintainer II.

Completion Requirements Students

are recommended to complete courses required for the major in the order presented. In addition to the academic requirements listed, each apprentice must complete the prescribed number of hours of training during the period of the apprenticeship program as approved by the apprenticeship committee to receive the certificate of achievement or two-year degree. Additional general education and graduation requirements for the associate degree are listed in the Academic Requirements section of catalog. The associate degree requires a minimum of 60 units.

Learning Outcome(s):

1. The San Diego Trolley Apprentice student will read, comprehend and apply Trolley trade instructions and design standards for construction or production outcomes in Trolley work as required by San Diego Trolley practices and industry standards.
2. The San Diego Trolley Apprentice student will identify and utilize equipment and related components of the trolley profession to meet San Diego Trolley strands for measurement, calibration and trolley practices at the Journeyman levels.
3. The San Diego Trolley Apprentice student will illustrate procedures utilized for the trolley practices in used of tools techniques and hands-on skills and competencies for the Journeyman-level practices in trolley occupations.
4. The San Diego Trolley Apprentice student will demonstrate preparedness for successful transition to the Journeyman level designation and professional certification by the California Division of Apprenticeship Standards.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 29.0-30.0

		3.0-4.0
BUSE 101	Business Mathematics	3.0
OR		
MATH 92	Applied Beginning and Intermediate Algebra	4.0
ELDT 124	Basic DC Electronics	4.0
ELDT 124L	Basic DC Laboratory	1.0

ELDT 123	Introduction to Digital Circuits	3.0
ELDT 123L	Digital Circuits Laboratory	1.0
TROL 301	San Diego Trolley Light Rail Vehicle I	2.0
TROL 302	San Diego Trolley Light Rail Vehicle II	1.5
ELDT 143	Semiconductor Devices	3.0
ELDT 143L	Semiconductor Devices Laboratory	1.5
AIRE 100	Basic Refrigeration & AC Theory	4.0
AIRE 103	Basic Refrigeration & AC Lab	2.0
TROL 303	San Diego Trolley Light Rail Vehicle III	3.0

Total: 29.0-30.0

SAN DIEGO TROLLEY INC REVENUE MAINTAINER APPRENTICESHIP - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

A four-year apprenticeship in electro-mechanical trades at San Diego Trolley, Inc (SDTI). Applications for the following trades are accepted at 1255 Imperial Avenue, Suite 900, San Diego, CA 92101- 7492: 1. Assistant Lineman (Light Rail Vehicle); 2. Assistant Lineman (Wayside); 3. Lineman (Light Rail Vehicle); 4. Lineman (Wayside); 5. Revenue Maintainer I; and 6. Revenue Maintainer II.

Completion Requirements

Students are recommended to complete courses required for the major in the order presented. In addition to the academic requirements listed, each apprentice must complete the prescribed number of hours of training during the period of the apprenticeship program as approved by the apprenticeship committee to receive the certificate of achievement or two-year degree. Additional general education and graduation requirements for the associate degree are listed in the Academic Requirements section of catalog. The associate degree requires a minimum of 60 units.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. The San Diego Trolley Apprentice student will read, comprehend and apply Trolley trade instructions and design standards for construction or production outcomes in Trolley work as required by San Diego Trolley practices and industry standards.
2. The San Diego Trolley Apprentice student will identify and utilize equipment and related components of the trolley profession to meet San Diego Trolley strands for measurement, calibration and trolley practices at the Journeyman levels.
3. The San Diego Trolley Apprentice student will illustrate procedures utilized for the trolley practices in used of tools techniques and hands-on skills and competencies for the Journeyman-level practices in trolley occupations.
4. The San Diego Trolley Apprentice student will demonstrate preparedness for successful transition to the Journeyman level designation and professional certification by the California Division of Apprenticeship Standards.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 36.0-37.0

		3.0-4.0
BUSE 101	Business Mathematics	3.0
OR		
MATH 92	Applied Beginning and Intermediate Algebra	4.0
ELDT 124	Basic DC Electronics	4.0

ELDT 124L	Basic DC Laboratory	1.0
ELDT 125	AC Circuit Analysis	4.0
ELDT 125L	DC/AC Circuit Analysis Laboratory with Pspice	1.0
ELCT 111	Electrical Theory I	3.0
ELCT 111L	Electrical Laboratory I	2.0
ELCT 121	Electrical Theory II	3.0
ELCT 121L	Electrical Laboratory II	2.0
ELCT 131	Electrical Theory III	3.0
ELCT 131L	Electrical Laboratory III	2.0
ELDT 227	Introduction to Lasers and Fiber Optics	3.0
ELDT 227L	Lasers and Fiber Optics Laboratory	1.0
INWT 120	Network Fundamentals (Network+)	4.0

Total: 36.0-37.0

SAN DIEGO TROLLEY INC REVENUE MAINTAINER APPRENTICESHIP - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

A four-year apprenticeship in electro-mechanical trades at San Diego Trolley, Inc (SDTI). Applications for the following trades are accepted at 1255 Imperial Avenue, Suite 900, San Diego, CA 92101- 7492: 1. Assistant Lineman (Light Rail Vehicle); 2. Assistant Lineman (Wayside); 3. Lineman (Light Rail Vehicle); 4. Lineman (Wayside); 5. Revenue Maintainer I; and 6. Revenue Maintainer II.

Completion Requirements

Students are recommended to complete courses required for the major in the order presented. In addition to the academic requirements listed, each apprentice must complete the prescribed number of hours of training during the period of the apprenticeship program as approved by the apprenticeship committee to receive the certificate of achievement or two-year degree. Additional general education and graduation requirements for the associate degree are listed in the Academic Requirements section of catalog. The associate degree requires a minimum of 60 units.

Learning Outcome(s):

1. The San Diego Trolley Apprentice student will read, comprehend and apply Trolley trade instructions and design standards for construction or production outcomes in Trolley work as required by San Diego Trolley practices and industry standards.
2. The San Diego Trolley Apprentice student will identify and utilize equipment and related components of the trolley profession to meet San Diego Trolley strands for measurement, calibration and trolley practices at the Journeyman levels.
3. The San Diego Trolley Apprentice student will illustrate procedures utilized for the trolley practices in used of tools techniques and hands-on skills and competencies for the Journeyman-level practices in trolley occupations.
4. The San Diego Trolley Apprentice student will demonstrate preparedness for successful transition to the Journeyman level designation and professional certification by the California Division of Apprenticeship Standards.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 36.0-37.0

		3.0-4.0
BUSE 101	Business Mathematics	3.0
OR		
MATH 92	Applied Beginning and Intermediate Algebra	4.0

ELDT 124	Basic DC Electronics	4.0
ELDT 124L	Basic DC Laboratory	1.0
ELDT 125	AC Circuit Analysis	4.0
ELDT 125L	DC/AC Circuit Analysis Laboratory with Pspice	1.0
ELCT 111	Electrical Theory I	3.0
ELCT 111L	Electrical Laboratory I	2.0
ELCT 121	Electrical Theory II	3.0
ELCT 121L	Electrical Laboratory II	2.0
ELCT 131	Electrical Theory III	3.0
ELCT 131L	Electrical Laboratory III	2.0
ELDT 227	Introduction to Lasers and Fiber Optics	3.0
ELDT 227L	Lasers and Fiber Optics Laboratory	1.0
INWT 120	Network Fundamentals (Network+)	4.0

Total: 36.0-37.0

SAN DIEGO TROLLEY INC WAYSIDE LINEMAN APPRENTICESHIP - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

A four-year apprenticeship in electro-mechanical trades at San Diego Trolley, Inc (SDTI). Applications for the following trades are accepted at 1255 Imperial Avenue, Suite 900, San Diego, CA 92101- 7492: 1. Assistant Lineman (Light Rail Vehicle); 2. Assistant Lineman (Wayside); 3. Lineman (Light Rail Vehicle); 4. Lineman (Wayside); 5. Revenue Maintainer I; and 6. Revenue Maintainer II.

Completion Requirements

Students are recommended to complete courses required for the major in the order presented. In addition to the academic requirements listed, each apprentice must complete the prescribed number of hours of training during the period of the apprenticeship program as approved by the apprenticeship committee to receive the certificate of achievement or two-year degree. Additional general education and graduation requirements for the associate degree are listed in the Academic Requirements section of catalog. The associate degree requires a minimum of 60 units.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. The San Diego Trolley Apprentice student will read, comprehend and apply Trolley trade instructions and design standards for construction or production outcomes in Trolley work as required by San Diego Trolley practices and industry standards.
2. The San Diego Trolley Apprentice student will identify and utilize equipment and related components of the trolley profession to meet San Diego Trolley standards for measurement, calibration and trolley practices at Journeyman levels.
3. The San Diego Trolley Apprentice student will illustrate procedures utilized for trolley practices in use of tools techniques and hands-on skills and competencies for Journeyman-level practices in trolley occupations.
4. The San Diego Trolley Apprentice student will demonstrate preparedness for successful transition to the Journeyman level designation and professional certification by the California Division of Apprenticeship Standards.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 33.0-34.0

BUSE 101	Business Mathematics	3.0-4.0
		3.0

OR		
MATH 92	Applied Beginning and Intermediate Algebra	4.0
ELCT 30	Modern Commercial Wiring	3.0
ELCT 111	Electrical Theory I	3.0
ELCT 111L	Electrical Laboratory I	2.0
ELCT 121	Electrical Theory II	3.0
ELCT 121L	Electrical Laboratory II	2.0
ELCT 131	Electrical Theory III	3.0
ELCT 131L	Electrical Laboratory III	2.0
ELCT 141	Electrical Theory IV	3.0
ELCT 141L	Electrical Laboratory IV	2.0
ELCT 20	Blueprint Reading for Electricians	3.0
ELDT 123	Introduction to Digital Circuits	3.0
ELDT 123L	Digital Circuits Laboratory	1.0

Total: 33.0-34.0

SAN DIEGO TROLLEY INC WAYSIDE LINEMAN APPRENTICESHIP - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

A four-year apprenticeship in electro-mechanical trades at San Diego Trolley, Inc (SDTI). Applications for the following trades are accepted at 1255 Imperial Avenue, Suite 900, San Diego, CA 92101- 7492: 1. Assistant Lineman (Light Rail Vehicle); 2. Assistant Lineman (Wayside); 3. Lineman (Light Rail Vehicle); 4. Lineman (Wayside); 5. Revenue Maintainer I; and 6. Revenue Maintainer II.

Completion Requirements

Students are recommended to complete courses required for the major in the order presented. In addition to the academic requirements listed, each apprentice must complete the prescribed number of hours of training during the period of the apprenticeship program as approved by the apprenticeship committee to receive the certificate of achievement or two-year degree. Additional general education and graduation requirements for the associate degree are listed in the Academic Requirements section of catalog. The associate degree requires a minimum of 60 units.

Learning Outcome(s):

1. The San Diego Trolley Apprentice student will read, comprehend and apply Trolley trade instructions and design standards for construction or production outcomes in Trolley work as required by San Diego Trolley practices and industry standards.
2. The San Diego Trolley Apprentice student will identify and utilize equipment and related components of the trolley profession to meet San Diego Trolley standards for measurement, calibration and trolley practices at Journeyman levels.
3. The San Diego Trolley Apprentice student will illustrate procedures utilized for trolley practices in use of tools techniques and hands-on skills and competencies for Journeyman-level practices in trolley occupations.
4. The San Diego Trolley Apprentice student will demonstrate preparedness for successful transition to the Journeyman level designation and professional certification by the California Division of Apprenticeship Standards.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 33.0-34.0

ELCT 20	Blueprint Reading for Electricians	3.0
ELCT 30	Modern Commercial Wiring	3.0
		3.0-4.0

BUSE 101	Business Mathematics	3.0
OR		
MATH 92	Applied Beginning and Intermediate Algebra	4.0
ELCT 111	Electrical Theory I	3.0
ELCT 111L	Electrical Laboratory I	2.0
ELCT 121	Electrical Theory II	3.0
ELCT 121L	Electrical Laboratory II	2.0
ELCT 131	Electrical Theory III	3.0
ELCT 131L	Electrical Laboratory III	2.0
ELCT 141	Electrical Theory IV	3.0
ELCT 141L	Electrical Laboratory IV	2.0
ELDT 123	Introduction to Digital Circuits	3.0
ELDT 123L	Digital Circuits Laboratory	1.0

Total: 33.0-34.0

SMALL BUSINESS MANAGEMENT ENTREPRENEUR - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The Business Studies program at San Diego City College offers certificates of performance, certificates of achievement, and associate degree awards in the field of business and business-related studies. Areas of emphasis include accounting, business administration, economics, finance, financial services, management, marketing, and real estate. Awards are designed to prepare students with an educational framework for effective managerial leadership in entrepreneurial and corporate business pursuits. Coursework offered by the program equips students for transfer to a four-year institution, while providing foundational skills to obtain entry-level positions or enhance existing job competencies.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Students who successfully complete the Associate of Science in Small Business Management Entrepreneur will be able to build skills and knowledge in business planning, communication, and financial management.
2. Students who successfully complete the Associate of Science in Small Business Management Entrepreneur will be able to gain an understanding of the pros and cons of different business models;
3. Students who successfully complete the Associate of Science in Small Business Management Entrepreneur will be able to explore decision making processes used when owning or managing a small business; and

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 10.0

The Business Department recommends that students planning to transfer completes BUSE 119 instead of BUSE 092.

ACCT 128A	Recordkeeping	1.5
ACCT 128B	Payroll	1.5
BUSE 92	Introduction to Business Communication	3.0
OR		
BUSE 119	Business Communications	3.0
BUSE 155	Small Business Management	3.0

BUSE 270	Business Internship / Work Experience	1.0
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Complete nine (9) units from the following:

Units: 9.0

BUSE 102	Introduction to Customer Service	3.0
BUSE 150	Human Relations in Business	3.0
BUSE 157	Developing a Plan for the Small Business	3.0
BUSE 201	Business Organization and Management	3.0
MARK 100	Principles of Marketing	3.0
MARK 105	Professional Selling	3.0
MARK 130	Advertising Principles	3.0

Total: 19.0

SMALL BUSINESS MANAGEMENT ENTREPRENEUR - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

N/A.

Learning Outcome(s):

1. Students who successfully complete the Associate of Science in Small Business Management Entrepreneur will be able to build skills and knowledge in business planning, communication, and financial management.
2. Students who successfully complete the Associate of Science in Small Business Management Entrepreneur will be able to explore decision making processes used when owning or managing a small business; and
3. Students who successfully complete the Associate of Science in Small Business Management Entrepreneur will be able to gain an understanding of the pros and cons of different business models;

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 10.0

The Business Department recommends that students planning to transfer completes BUSE 119 instead of BUSE 092.

ACCT 128A	Recordkeeping	1.5
ACCT 128B	Payroll	1.5
		3.0
BUSE 92	Introduction to Business Communication	3.0
OR		
BUSE 119	Business Communications	3.0
BUSE 155	Small Business Management	3.0
BUSE 270	Business Internship / Work Experience	1.0

Complete nine (9) units from the following:

Units: 9.0

BUSE 102	Introduction to Customer Service	3.0
BUSE 150	Human Relations in Business	3.0
BUSE 157	Developing a Plan for the Small Business	3.0
BUSE 201	Business Organization and Management	3.0
MARK 100	Principles of Marketing	3.0
MARK 105	Professional Selling	3.0
MARK 130	Advertising Principles	3.0

Total: 19.0

SOCIAL WORK - ASSOCIATE OF ARTS DEGREE: CITY

Summary

Social Work is an applied behavioral science that emphasizes the application of behavioral science principles in a variety of cultural contexts. Social Work students are expected to think critically and scientifically about behavior, to apply the principles of the behavioral sciences, and to understand the role of values in diverse cultural settings. As a profession, social work focuses on methods for helping people from many different social groups to improve the quality of their lives.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Students who successfully complete the Associate of Arts in Social Work will be able to identify and compare the various public benefits available through local, state, federal, public assistance programs.
2. Students who successfully complete the Associate of Arts in Social Work will be able to propose critical questions and issues facing our society today, particularly the U.S. role in a globalized world;
3. Students who successfully complete the Associate of Arts in Social Work will be able to critically assess how the theoretical underpinnings of sociology explicitly challenge the dominant ideologies in us society and the role of sociology to produce social change; and
4. Students who successfully complete the Associate of Arts in Social Work will be able to analyze critical inquiry of personal experience, over-generalization, and simplistic understandings of human behavior through the application of various sociological theories;
5. Students who successfully complete the Associate of Arts in Social Work will be able to apply the sociological imagination and be able to differentiate between sociology and other social sciences;

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 22.0

HUMS 110	Social Work Fields of Service	3.0
HUMS 120	Introduction to Social Work	3.0
BIOL 107	General Biology-Lecture and Laboratory	4.0
ECON 120	Principles of Macroeconomics	3.0
PSYC 101	General Psychology	3.0
		3.0
PSYC 258	Behavioral Science Statistics	3.0
OR		
MATH 119	Elementary Statistics	3.0
SOCO 101	Principles of Sociology	3.0

Select two courses from the following:

Units: 6.0

PSYC 161	Introduction to Counseling	3.0
PSYC 230	Psychology of Lifespan Development	3.0
PSYC 245	Abnormal Psychology	3.0
SOCO 110	Contemporary Social Problems	3.0

Total: 28.0

SOCIOLOGY - ASSOCIATE IN ARTS FOR TRANSFER DEGREE: CITY

Summary

The Associate in Arts in Sociology for Transfer Degree is intended for students who plan to complete a bachelor's degree in Sociology or a related major in the California State University (CSU) system. It is accepted by some but

not all CSU campuses. Students who complete this degree and transfer to a participating CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor's degree. It may not be appropriate preparation for students transferring to a CSU campus that does not accept the degree. Students who plan to complete this degree should consult a counselor for additional information about participating CSU campuses as well as university admission, degree and transfer requirements. NOTE: Students intending to transfer into this major at a CSU should consult with a counselor and visit www.assist.org for guidance on appropriate transfer coursework.

Award Notes:

The following is required for all AA-T or AS-T degrees:

- Completion of 60 semester units that are eligible for transfer to the California State University
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Minimum grade of "C" or "P" or better for each course in the major. Students should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.

Learning Outcome(s):

1. Students who complete the program will be able to critically assess how the theoretical underpinnings of sociology explicitly challenge the dominant ideologies in US society and the role of sociology to produce social change.
2. Students who complete the program will be able to propose critical questions and issues facing our society today, particularly the US role in a globalized world.
3. Students who complete the program will be able to analyze critical inquiry of personal experience, over-generalization, and simplistic understandings of human behavior through the application of various sociological theories.
4. Students who complete the program will be able to apply the sociological imagination and be able to differentiate between sociology and other social sciences.

Requirements

COURSES REQUIRED FOR THE MAJOR: Units: 15.0

SOCO 101	Principles of Sociology	3.0
SOCO 110	Contemporary Social Problems	3.0
PSYC 258	Behavioral Science Statistics	3.0
SOCO 220	Introduction to Research Methods in Sociology	3.0
SOCO 125	Sociology of the Family	3.0
OR		
GEND 101	Introduction to Gender Studies	3.0
OR		
SOCO 201	Advanced Principles of Sociology	3.0

Select one course not selected above from the following (3 units): Units: 3.0

GEND 101	Introduction to Gender Studies	3.0
SOCO 125	Sociology of the Family	3.0
SOCO 145	Health and Society	3.0
SOCO 150	Sociology of Latinos/Latinas	3.0
SOCO 201	Advanced Principles of Sociology	3.0
SOCO 223	Globalization and Social Change	3.0

Total: 18.0

Summary

Sociology is a behavioral science that emphasizes relationships through formal organizations to whole societies. Sociology's subject matter ranges from the intimate family to the hostile mob, from crime to religion, from divisions of race and social class to the shared beliefs of a common culture, from the Sociology of work to the Sociology of sports. Sociologists seek to understand interaction of individuals with institutions and social organizations and the norms, values, beliefs, and traditions that make social life possible and meaningful. It stresses how behavior is influenced by societal structures and how consensus (agreement) and conflict (disagreement) among groups affects society. Sociology students are expected to be able to think critically and scientifically about human behavior, and to be able to apply the principles of sociology to an understanding of behavior.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Students who complete the program will be able to critically assess how the theoretical underpinnings of sociology explicitly challenge the dominant ideologies in US society and the role of sociology to produce social change.
2. Students who complete the program will be able to propose critical questions and issues facing our society today, particularly the US role in a globalized world.
3. Students who complete the program will be able to analyze critical inquiry of personal experience, over-generalization, and simplistic understandings of human behavior through the application of various sociological theories.
4. Students who complete the program will be able to apply the sociological imagination and be able to differentiate between sociology and other social sciences.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 15.0

SOCO 101	Principles of Sociology	3.0
SOCO 110	Contemporary Social Problems	3.0
		3.0
PSYC 258	Behavioral Science Statistics	3.0
OR		
MATH 119	Elementary Statistics	3.0
SOCO 201	Advanced Principles of Sociology	3.0
SOCO 220	Introduction to Research Methods in Sociology	3.0

Select two courses from the following:

Units: 6.0

SOCO 125	Sociology of the Family	3.0
SOCO 145	Health and Society	3.0
SOCO 150	Sociology of Latinos/Latinas	3.0
SOCO 223	Globalization and Social Change	3.0
GEND 101	Introduction to Gender Studies	3.0

Total: 21.0

Summary

A four-year indentured apprenticeship program in a number of manufacturing or technical trades is available. Applications for the following trades are accepted at Solar Turbines, Incorporated. 2200 Pacific Coast Highway, P.O. Box 85376 MZ-M1, San Diego, CA 92186-5376. 1. Master Machinist 2. Tool and Die Maker 3. Sheet Metal Experimental Mechanic 4. Precision Machine Tool Mechanic

Enrollment in classes other than those listed will be allowed with the approval of the Solar Turbines Incorporated Apprenticeship Coordinator.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. The Solar Turbine Apprentice student will read, comprehend and apply Solar Turbine instructions and design standards for construction or production outcomes as required by Solar Turbine practices and industry standards.
2. The Solar Turbine Apprentice student will identify and utilize equipment and related components of the Solar Turbine profession to meet standards for measurement, calibration and Solar Turbine practices at Journeyman levels.
3. The Solar Turbine Apprentice student will illustrate procedures utilized for Solar Turbine industry specific practices in use of tools techniques and hands-on skills and competencies for Journeyman-level practices in Solar Turbine.
4. The Solar Turbine Apprentice student will demonstrate preparedness for successful transition to the Journeyman level designation and professional certification by the California Division of Apprenticeship Standards.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 29.0

MFET 105	Print Reading and Symbology	3.0
CHEM 100	Fundamentals of Chemistry	3.0
CHEM 100L	Fundamentals of Chemistry Laboratory	1.0
MATH 104	Trigonometry	3.0
MACT 150	Intro/Computer Numerical Control (CNC)	4.0
ENGL 101	Reading and Composition	3.0
ENGE 151	Computer-Aided Design	2.0
MFET 115	Properties of Materials	3.0
MFET 120	Manufacturing Processes	4.0
COMS 103	Oral Communication	3.0

Total: 29.0

SOLAR TURBINES, INCORPORATED APPRENTICESHIP - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

A four-year indentured apprenticeship program in a number of manufacturing or technical trades is available. Applications for the following trades are accepted at Solar Turbines, Incorporated. 2200 Pacific Coast Highway, P.O. Box 85376 MZ-M1, San Diego, CA 92186-5376. 1. Master Machinist 2. Tool and Die Maker 3. Sheet Metal Experimental Mechanic 4. Precision Machine Tool Mechanic

Enrollment in classes other than those listed will be allowed with the approval of the Solar Turbines Incorporated Apprenticeship Coordinator.

Learning Outcome(s):

1. The Solar Turbine Apprentice student will read, comprehend and apply Solar Turbine instructions and design standards for construction or production outcomes as required by Solar Turbine practices and industry standards.

- The Solar Turbine Apprentice student will identify and utilize equipment and related components of the Solar Turbine profession to meet standards for measurement, calibration and Solar Turbine practices at Journeyman levels.
- The Solar Turbine Apprentice student will illustrate procedures utilized for Solar Turbine industry specific practices in use of tools techniques and hands-on skills and competencies for Journeyman-level practices in Solar Turbine.
- The Solar Turbine Apprentice student will demonstrate preparedness for successful transition to the Journeyman level designation and professional certification by the California Division of Apprenticeship Standards.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 29.0

MFET 105	Print Reading and Symbology	3.0
CHEM 100	Fundamentals of Chemistry	3.0
CHEM 100L	Fundamentals of Chemistry Laboratory	1.0
MATH 104	Trigonometry	3.0
MACT 150	Intro/Computer Numerical Control (CNC)	4.0
ENGL 101	Reading and Composition	3.0
ENGE 151	Computer-Aided Design	2.0
MFET 115	Properties of Materials	3.0
MFET 120	Manufacturing Processes	4.0
COMS 103	Oral Communication	3.0

Total: 29.0

SPANISH - ASSOCIATE IN ARTS FOR TRANSFER DEGREE: CITY

Summary

The Associate in Arts in Spanish for Transfer Degree is intended for students who plan to complete a bachelor's degree in Spanish or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. Students who complete this degree and transfer to a participating CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor's degree. It may not be appropriate preparation for students transferring to a CSU campus that does not accept the degree. Students who plan to complete this degree should consult a counselor for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

Award Notes:

The following is required for all AA-T or AS-T degrees:

- Completion of 60 semester units that are eligible for transfer to the California State University
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Minimum grade of "C" or "P" or better for each course in the major. Students should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.

Learning Outcome(s):

- Students who complete the program will be able to demonstrate cultural fluency and awareness.
- Students who complete the program will be able to demonstrate intermediate-high comprehension and language production.
- Students who complete the program will be able to develop writing processes in Spanish.
- Students who complete the program will be able to apply critical thinking skills.

- Students who complete the program will be able to accurately use the language mechanics in the five spheres of Foreign Language learning.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 20.0

SPAN 101	First Course in Spanish	5.0
SPAN 102	Second Course in Spanish	5.0
SPAN 201	Third Course in Spanish	5.0
SPAN 202	Fourth Course in Spanish	5.0

Select one of the following:

Units: 3.0

SPAN 210	Conversation and Composition Spanish I	3.0
SPAN 211	Conversation and Composition Spanish II	3.0

Total: 23.0

SPANISH - ASSOCIATE OF ARTS DEGREE: CITY

Summary

The study of languages provides communication skills, provides exposure to the richness of cultural variety, increases transfer options to universities with language requirements, opens new career opportunities, enriches global travel, and provides personal enrichment. The program is designed to prepare students for transfer to a baccalaureate institution and for proficiency in a language in a variety of settings.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

- Students who complete the program will be able to demonstrate cultural fluency and awareness.
- Students who complete the program will be able to demonstrate intermediate–high comprehension and language production.
- Students who complete the program will be able to develop writing processes in Spanish.
- Students who complete the program will be able to apply critical thinking skills.
- Students who complete the program will be able to accurately use the language mechanics in the five spheres of Foreign Language learning.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 22.0-26.0

		6.0-10.0
		10.0
SPAN 101	First Course in Spanish	5.0
AND		
SPAN 102	Second Course in Spanish	5.0
OR		
		6.0
CHIC 141A	United States History from a Chicano Perspective	3.0
AND		
CHIC 141B	United States History from a Chicano Perspective	3.0
		5.0

SPAN 201	Third Course in Spanish	5.0
OR		
SPAN 215	Spanish for Spanish Speakers I	5.0
		5.0
SPAN 202	Fourth Course in Spanish	5.0
OR		
SPAN 216	Spanish for Spanish Speakers II	5.0
SPAN 210	Conversation and Composition Spanish I	3.0
SPAN 211	Conversation and Composition Spanish II	3.0

Total: 22.0-26.0

SPECIAL EFFECTS (FX) MAKEUP - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Special Effects (FX) Makeup provides students with the skills and hands-on experience required for entry-level employment in the special effects makeup industry. Emphasis is placed on the design, development, and application process for character and creature prosthetics for stage, film, and television. Students develop a portfolio of work to industry standards. The program provides students with the skills in creating a professional portfolio that can be used to obtain employment in the FX industry.

Learning Outcome(s):

1. Upon completion of the program, the student will be able to augment the discipline, cooperation, accountability, and perseverance necessary for positive self-identification and success in life.
2. Upon completion of the program, the student will be able to acquire inter-cultural and multi-cultural understanding, as well as perception of the universal and timeless human conflicts presented in dramatic works.
3. Upon completion of the program, the student will be able to identify the historical and cultural dimension of theatre, including the works of leading playwrights, actors, directors, and designers.
4. Upon completion of the program, the student will be able to explain and practice basic production processes such as acting, scenic, costume, and make-up design, and technical operation related to production.
5. Upon completion of the program, the student will be able to develop a structural approach to interpretation of language in dramatic text.
6. Upon completion of the program, the student will be able to effectively practice the theatre arts through involvement in the creation and presentation of public performances in theatre.

Requirements

COURSES REQUIRED FOR THE MAJOR:	Units: 3.0	
DRAM 124	Makeup for the Stage	3.0

Select 13 units from the following:	Units: 13.0	
DRAM 144A	Beginning Special Effects Makeup for Stage and Film	3.0
DRAM 144B	Intermediate Special Effects Makeup for Stage and Film	3.0
DRAM 145A	Introduction to Theatrical Glamour: Promotional Events	3.0
DRAM 146A	Beginning Special Effects Makeup Practicum: Character	3.0
DRAM 146B	Intermediate FX Makeup Practicum: Creature	3.0
DRAM 146C	Introduction to Theatrical Glamour Practicum: Promotional Events	3.0
DRAM 270	Theatre Arts Internship / Work Experience	1.0-4.0

Total: 16.0

SPECIAL EFFECTS (FX) MAKEUP - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Certificate of Performance in Special Effects (FX) Makeup provides students with the skills and hands-on experience required for entry-level employment in the special effects makeup industry. Emphasis is placed on the design, development, and application process for character and creature prosthetics for stage, film, and television. Students develop a portfolio of work to industry standards.

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. Note:**

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Upon completion of the program, the student will be able to augment the discipline, cooperation, accountability, and perseverance necessary for positive self-identification and success in life.
2. Upon completion of the program, the student will be able to acquire inter-cultural and multi-cultural understanding, as well as perception of the universal and timeless human conflicts presented in dramatic works.
3. Upon completion of the program, the student will be able to identify the historical and cultural dimension of theatre, including the works of leading playwrights, actors, directors, and designers.
4. Upon completion of the program, the student will be able to explain and practice basic production processes such as acting, scenic, costume, and make-up design, and technical operation related to production.
5. Upon completion of the program, the student will be able to develop a structural approach to interpretation of language in dramatic text.
6. Upon completion of the program, the student will be able to effectively practice the theatre arts through involvement in the creation and presentation of public performances in theatre.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 9.0

The department suggests that students take DRAM 124 prior to enrolling in DRAM 144A and DRAM 146A.

DRAM 124	Makeup for the Stage	3.0
DRAM 144A	Beginning Special Effects Makeup for Stage and Film	3.0
DRAM 146A	Beginning Special Effects Makeup Practicum:Character	3.0

Total: 9.0

STARTING AND MANAGING A SMALL BUSINESS* - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Certificate of Performance in Starting and Managing a Small Business provides students with the skills and knowledge required to start and manage a small business of their own or as an employee of a start-up company.

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. Note:**

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Students who complete the certificate will be able to develop marketing strategies including product planning, development, pricing, distribution, and promotion necessary to operate a small business.
2. Students who complete the certificate will be able to develop a business plan for a small business.
3. Students who complete the certificate will be able to apply human resource management techniques, marketing for a small business, and knowledge of current legal issues to successfully own or operate a small business.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 9.0

BUSE 155	Small Business Management	3.0
BUSE 157	Developing a Plan for the Small Business	3.0
MARK 100	Principles of Marketing	3.0

Total: 9.0

STUDIO ARTS - ASSOCIATE IN ARTS FOR TRANSFER DEGREE: CITY

Summary

The Associate in Arts in Studio Arts for Transfer Degree is intended for students who plan to complete a bachelor's degree in Studio Arts or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. Students who complete this degree and transfer to a participating CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor's degree. It may not be appropriate preparation for students transferring to a CSU campus that does not accept the degree. Students who plan to complete this degree should consult a counselor for additional information about participating CSU campuses as well as university admission, degree and transfer requirements. It is strongly recommended that students consult with a counselor to determine which general education option is most appropriate for their individual educational goals. Students are required to complete: A minimum of 18 semester units in the major with a grade of C or better while maintaining a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable work. Completion of 60 CSU-transferable units using the California State University-General Education-Breadth pattern (CSU-GE Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern. No more than 60 units are required.

Award Notes:

The following is required for all AA-T or AS-T degrees:

- Completion of 60 semester units that are eligible for transfer to the California State University
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Minimum grade of "C" or "P" or better for each course in the major. Students should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.

Learning Outcome(s):

1. Students who complete the program will be able to interpret, evaluate and critiques orally and in writing visual works of art.
2. Students who complete the program will be able to produce visual works of art in a variety of mediums. Choose the most appropriate materials, tools and techniques to meet artist goals.
3. Students who complete the program will be able to produce visual works of art reflecting global awareness, cultural diversity.
4. Students who complete the program will be able to demonstrate knowledge of specific historical and cultural art styles.
5. Students who complete the program will be able to solve basic problems of visual expression and describe its historical or contemporary context

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 15.0

ARTF 110	Art History: Prehistoric to Gothic	3.0
ARTF 111	Art History: Renaissance to Modern	3.0
ARTF 150A	Two-Dimensional Design	3.0
ARTF 151	Three-Dimensional Design	3.0
ARTF 155A	Freehand Drawing I	3.0

Select three courses (nine semester units) from the following: (It is recommended that students select courses that meet lower division major preparation requirements for their transfer university.)

Units: 9.0

ARTF 155B	Freehand Drawing II	3.0
ARTF 165A	Composition in Painting I	3.0
ARTF 170A	Contemporary Crafts I	3.0
ARTF 175A	Sculpture I	3.0
ARTF 195A	Ceramics I	3.0
ARTF 197A	Handbuilding Ceramics I	3.0
ARTF 210A	Life Drawing I	3.0

Total: 24.0

STUDIO ARTS ENTREPRENEURSHIP - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Studio Arts Entrepreneurship provides students with the skills and knowledge to foster self-employment or a small business. The curriculum is designed to maximize students' art experience while providing basic skills required for self-employment and employment in art-related fields. This program expands student education in entrepreneurship and small business management. The primary aim is to prepare students to create advanced artwork and pursue a career in art-related fields.

Learning Outcome(s):

1. Students who complete the program will be able to interpret, evaluate and critiques orally and in writing visual works of art.
2. Students who complete the program will be able to produce visual works of art in a variety of mediums. Choose the most appropriate materials, tools and techniques to meet artist goals.
3. Students who complete the program will be able to produce visual works of art reflecting global awareness, cultural diversity.
4. Students who complete the program will be able to demonstrate knowledge of specific historical and cultural art styles.

5. Students who complete the program will be able to solve basic problems of visual expression and describe its historical or contemporary context.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 12.0

ARTF 206	Art Entrepreneurship	3.0
ARTF 260	Studio Art Studies	3.0
DSGN 102	Digital Media I	3.0
PHOT 143	Introduction to Digital Photography	3.0

Select 6 units from the following courses:

Units: 6.0

ARTF 165B	Composition in Painting II	3.0
ARTF 165C	Composition in Painting III	3.0
ARTF 170B	Contemporary Crafts II	3.0
ARTF 170C	Contemporary Crafts III	3.0
ARTF 175B	Sculpture II	3.0
ARTF 175C	Sculpture III	3.0
ARTF 195B	Ceramics II	3.0
ARTF 195C	Ceramics III	3.0
ARTF 196	Clay and Glaze Technology	3.0
ARTF 202A	Public Art I	3.0
ARTF 202B	Public Art II	3.0
ARTF 205A	Installation, Performance, and New Genres	3.0
ARTF 207A	Industrial and Architectural Ceramic Design I	3.0
ARTF 207B	Industrial and Architectural Ceramic Design II	3.0
ARTF 208A	Ceramic Production I	3.0
ARTF 208B	Ceramic Production II	3.0
ARTF 210B	Life Drawing II	3.0
ARTF 210C	Life Drawing III	3.0
ARTF 212	Sustainable Art and Design	3.0

Total: 18.0

SUSTAINABILITY - ASSOCIATE OF ARTS DEGREE: CITY

Summary

The Sustainability Program offers an interdisciplinary, theoretical and practical approach for students to enter into academic and/or professional fields related to Sustainability. The central focus of the degree is the interface of human and natural systems. The curriculum emphasizes the study of cultural, historical, social, economic, and political values and forces that shape resource use and constrain responses to sustainable development. Students gain skills to critically analyze current global affairs in order to offer alternative solutions to create sustainable societies.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Upon completion of the Sustainability program, students are able to understand the role of ethics in sustainability.
2. Upon completion of the Sustainability program, students are able to critically think about their role in the world and their possible contributions to a sustainable global society;
3. Upon completion of the Sustainability program, students are able to apply theory in academic disciplines such as sociology, philosophy, economics, and environmental science to the field of sustainability;

4. Upon completion of the Sustainability program, students are able to analyze, discuss and evaluate issues related to sustainability on all levels;

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 13.0

SUST 101	Introduction to Sustainability	3.0
BIOL 101	Issues in Environmental Science & Sustainability	4.0
ECON 121	Principles of Microeconomics	3.0
GEOG 101	Physical Geography	3.0

Select three to four units from the following:

Units: 3.0-4.0

AGRI 102	Sustainable Urban Agricultural Practice	3.0
CHEM 111	Chemistry in Society	3.0
AND		
CHEM 111L	Chemistry in Society Laboratory	1.0
PEAC 101	Introduction to Peace Studies	3.0
PHIL 131	Environmental Ethics	3.0
SOCO 223	Globalization and Social Change	3.0

Select three to four units from the following:

Units: 3.0-4.0

BUSE 115	Statistics for Business	3.0
MATH 115	Gateway to Experimental Statistics	4.0
MATH 119	Elementary Statistics	3.0
PHIL 101	Symbolic Logic	3.0
POLI 201	Elementary Statistics for Political Science	3.0
PSYC 258	Behavioral Science Statistics	3.0

Total: 19.0-21.0

SUSTAINABLE URBAN AGRICULTURE - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The Sustainable Urban Agriculture program prepares students to transfer to a four-year college to continue their studies in agriculture and related fields.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Students who complete the program will be able to demonstrate basic propagation techniques.
2. Students who complete the program will be able to identify plant disease and pests and incorporate integrated pest management and other organic strategies for a resilient food system.
3. Students who complete the program will be able to create a crop plan that is appropriate for the southwest region.
4. Students who complete the program will be able to evaluate the soil food web.
5. Students who complete the program will be able to design an organic urban farm that supports natural ecosystems, human health, and water conservation.
6. Students who complete the program will be able to understand and explain the components of a food system.
7. Students who complete the program will be able to understand and explain the three facets of sustainability (economic, environmental and social) both in general and as they apply specifically to landscaping, practices.

Requirements

COURSES REQUIRED FOR THE MAJOR:		Units: 23.0
AGRI 100	Principles of Sustainable Agriculture	3.0
AGRI 102	Sustainable Urban Agricultural Practice	3.0
AGRI 104	Sustainable Vegetable Production	3.0
AGRI 125	Introduction to Soil Science	3.0
AGRI 107	Introduction to Agricultural Plant Science	4.0
CHEM 100	Fundamentals of Chemistry	3.0
CHEM 100L	Fundamentals of Chemistry Laboratory	1.0
SUST 101	Introduction to Sustainability	3.0
		Total: 23.0

TAX PREPARER* - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Accounting program at San Diego City College offers certificates of performance, certificates of achievement, and associate degree awards in the field of accounting and financial management. Areas of emphasis include tax and certified public accounting (CPA) preparation, financial management, and fundamentals in accounting. Awards are designed to prepare students with an educational framework for effective leadership in an accounting position. Coursework offered by the program equips students for transfer to a four-year institution, while providing foundational skills to obtain entry-level positions, enhance existing job competencies, and prepare for the Certified Public Accountant (CPA) and Certified Management Accountant (CMA) license.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Students who complete the program will be able to leverage technology to manage and use information for decision making.
2. Students who complete the program will be able to analyze business scenarios to formulate and implement plans of action.
3. Students who complete the program will be able to develop and apply appropriate communication skills across various business settings.

Requirements

COURSES REQUIRED FOR THE MAJOR:		Units: 4.0
ACCT 120	Federal Income Tax	3.0
ACCT 121	California Income Tax	1.0
		Total: 4.0

TEAM SPORTS - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Health and Exercise Science program at San Diego City College (SDCC) offers certificates of performance and achievement, and associate degrees in the field of health, exercise science, nutrition, and fitness. The program's mission is to provide a research-based practical approach to the multi-dimensional study of human movement, while engaging students in hands-on experiences to promote critical thinking, effective communication, and a comprehensive understanding of the health and exercise science discipline. The program meets this mission by

offering a variety of exercise science and health classes that can help meet the needs of our diverse community. The Health and Exercise Science program teaches students to lead by example in promoting a healthy lifestyle. It enables students to develop knowledge, skills, and abilities in exercise planning, participation, and behavior change not only for themselves, but also to the campus and community. The program embraces both the challenge to inspire our students to be individual improvement of health and wellness, and encourages our students to share their information and experience within the community.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student’s transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Personal Trainer: Upon successful completion the student will possess an applied understanding of physiology, kinesiology and nutrition as it applies to physical fitness. Students will demonstrate the ability to create safe and effective exercise/fitness programs for individuals or groups that meet the needs of the target audience.
2. Health: Upon successful completion the student will be able to identify the various dimensions of wellness, their interaction with one another, and then utilize strategies to create balance and successfully navigate life.
3. Exercise Science: Upon successful completion the student will improve in one or more of the 5 “Health-Related” Components of Fitness.
4. Athletics: Upon successful completion the student/athlete will improve their level of physical fitness, develop greater skill, and improve in the mental, psychological, and social aspects of their sport. They will create an educational plan with a counselor and develop recruiting tools to aid in transfer to a four year institution.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 3.0

		3.0
EXSC 241B	Introduction to Kinesiology	3.0
OR		
HEAL 101	Health and Lifestyle	3.0

Select four (4) courses from the following:

Units: 2.0-4.0

EXSC 156A	Baseball I	0.5-1.0
EXSC 156B	Baseball II	0.5-1.0
EXSC 156C	Baseball III	0.5-1.0
EXSC 156D	Baseball IV	0.5-1.0
EXSC 158A	Basketball I	0.5-1.0
EXSC 158B	Basketball II	0.5-1.0
EXSC 158C	Basketball III	0.5-1.0
EXSC 158D	Basketball IV	0.5-1.0
EXSC 174A	Soccer I	0.5-1.0
EXSC 174B	Soccer II	0.5-1.0
EXSC 174C	Soccer III	0.5-1.0
EXSC 174D	Soccer IV	0.5-1.0
EXSC 176A	Softball I	0.5-1.0
EXSC 176B	Softball II	0.5-1.0
EXSC 176C	Softball III	0.5-1.0
EXSC 176D	Softball IV	0.5-1.0
EXSC 182A	Volleyball I	0.5-1.0
EXSC 182B	Volleyball II	0.5-1.0
EXSC 182C	Volleyball III	0.5-1.0

TECHNICAL THEATRE - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

The Certificate of Achievement in Technical Theatre provides additional preparation for theatre majors to find entry-level work in all aspects of technical theatre. The award provides students with additional support when they transfer to four-year institutions where technical theatre is emphasized.

Note:

Students who successfully complete this award will be able to: • Design and implement stage scenery, lighting, and sound equipment; • Organize the technical operations of stage productions; • Create original makeup designs and apply makeup for original characters; and • Design and paint small- and large-scale scenery for the stage.

Learning Outcome(s):

1. Upon completion of the program, the student will be able to augment the discipline, cooperation, accountability, and perseverance necessary for positive self-identification and success in life.
2. Upon completion of the program, the student will be able to acquire inter-cultural and multi-cultural understanding, as well as perception of the universal and timeless human conflicts presented in dramatic works.
3. Upon completion of the program, the student will be able to identify the historical and cultural dimension of theatre, including the works of leading playwrights, actors, directors, and designers.
4. Upon completion of the program, the student will be able to explain and practice basic production processes such as acting, scenic, costume, and make-up design, and technical operation related to production.
5. Upon completion of the program, the student will be able to develop a structural approach to interpretation of language in dramatic text.
6. Upon completion of the program, the student will be able to effectively practice the theatre arts through involvement in the creation and presentation of public performances in theatre.

Requirements**COURSES REQUIRED FOR THE MAJOR:****Units: 18.0**

DRAM 123	Beginning Stagecraft	3.0
DRAM 124	Makeup for the Stage	3.0
DRAM 126	Advanced Stagecraft	3.0
DRAM 143	Beginning Costuming	3.0
DRAM 129A	Beginning Scene Painting	3.0
		3.0
DRAM 129B	Intermediate Scene Painting	3.0
OR		
DRAM 153	Intermediate Costuming	3.0

Total: 18.0

THEATRE - ASSOCIATE OF ARTS DEGREE: CITY

Summary

The Associate of Arts in Theatre provides an opportunity for students to gain practical experience in professional and community theatre work and to prepare themselves for continued higher education. Theatre productions are offered each year, allowing students to develop practical skills while earning college credit for transfer to

universities. The Theatre Arts program offers transfer courses in preparation for university theatre majors as well as fundamental skills in acting and dramatic production useful for employment or for participation in theatre productions.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Upon completion of the program, the student will be able to augment the discipline, cooperation, accountability, and perseverance necessary for positive self-identification and success in life.
2. Upon completion of the program, the student will be able to acquire inter-cultural and multi-cultural understanding, as well as perception of the universal and timeless human conflicts presented in dramatic works.
3. Upon completion of the program, the student will be able to identify the historical and cultural dimension of theatre, including the works of leading playwrights, actors, directors, and designers.
4. Upon completion of the program, the student will be able to explain and practice basic production processes such as acting, scenic, costume, and make-up design, and technical operation related to production.
5. Upon completion of the program, the student will be able to develop a structural approach to interpretation of language in dramatic text.
6. Upon completion of the program, the student will be able to effectively practice the theatre arts through involvement in the creation and presentation of public performances in theatre.

Requirements

COURSES REQUIRED FOR THE MAJOR: Units: 24.0

DRAM 105	Introduction to Dramatic Arts	3.0
DRAM 107	Study of Filmed Plays	3.0
DRAM 123	Beginning Stagecraft	3.0
OR		
DRAM 143	Beginning Costuming	3.0
DRAM 124	Makeup for the Stage	3.0
DRAM 132	Beginning Acting	3.0
DRAM 133	Intermediate Acting	3.0
DRAM 134	Beginning Voice for Actors	3.0
DRAM 165	Introduction to Stage Movement	3.0

Select three units from the following: Units: 3.0

DRAM 103	Acting for Non-majors	3.0
DRAM 108	Playwriting	3.0
DRAM 109	Theatre and Social Issues	3.0
DRAM 111	Chicana/o Theatre	3.0
DRAM 119	Film and Television Performance	3.0

Total: 27.0

THEATRE ARTS - ASSOCIATE IN ARTS FOR TRANSFER DEGREE: CITY

Summary

The Associate in Arts in Theatre Arts for Transfer Degree is intended for students who plan to complete a bachelor's degree in Theatre Arts or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. Students who complete this degree and transfer to a participating CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor's degree. It may not be appropriate preparation for students transferring to a CSU campus that does not accept the degree. Students

who plan to complete this degree should consult a counselor for additional information about participating CSU campuses as well as university admission, degree and transfer requirements. NOTE: Students intending to transfer into this major at a CSU should consult with a counselor and visit www.assist.org for guidance on appropriate transfer coursework.

Award Notes:

The following is required for all AA-T or AS-T degrees:

- Completion of 60 semester units that are eligible for transfer to the California State University
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major.
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some CSU campuses and majors may require a higher GPA. Please see a counselor for more information.
- Minimum grade of "C" or "P" or better for each course in the major. Students should review the Pass/No Pass acceptance policy of the transfer institution prior to requesting this grade option.
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.

Learning Outcome(s):

1. Upon completion of the program, the student will be able to augment the discipline, cooperation, accountability, and perseverance necessary for positive self-identification and success in life.
2. Upon completion of the program, the student will be able to acquire inter-cultural and multi-cultural understanding, as well as perception of the universal and timeless human conflicts presented in dramatic works.
3. Upon completion of the program, the student will be able to identify the historical and cultural dimension of theatre, including the works of leading playwrights, actors, directors, and designers.
4. Upon completion of the program, the student will be able to explain and practice basic production processes such as acting, scenic, costume, and make-up design, and technical operation related to production.
5. Upon completion of the program, the student will be able to develop a structural approach to interpretation of language in dramatic text.
6. Upon completion of the program, the student will be able to effectively practice the theatre arts through involvement in the creation and presentation of public performances in theatre.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 9.0

Required Courses: (It is recommended that students select courses that meet lower division major preparation requirements for their transfer university.)

		3.0
DRAM 105	Introduction to Dramatic Arts	3.0
OR		
DRAM 136	Theatre History I: Ancient Greece to the Renaissance	3.0
DRAM 132	Beginning Acting	3.0
DRAM 242A	Rehearsal and Performance I	3.0

Select three courses from the following (9 units):

Units: 9.0

It is recommended that students select courses that meet lower division major preparation requirements for their transfer university.

DRAM 123	Beginning Stagecraft	3.0
DRAM 124	Makeup for the Stage	3.0
DRAM 133	Intermediate Acting	3.0
DRAM 143	Beginning Costuming	3.0

THEATRICAL GLAMOUR FOR MEDIA AND PERFORMANCE - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Certificate of Performance in Theatrical Glamour Makeup provides students with the skills and hands-on experience required for entry-level employment in theatrical glamour theme/collection development, and technical makeup application for stage, film, and television. Students develop a portfolio of work to industry standards.

Note:

The department suggests that students take DRAM 124 prior to enrolling in DRAM 144A and DRAM 146A. *A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Upon completion of the program, the student will be able to augment the discipline, cooperation, accountability, and perseverance necessary for positive self-identification and success in life.
2. Upon completion of the program, the student will be able to acquire inter-cultural and multi-cultural understanding, as well as perception of the universal and timeless human conflicts presented in dramatic works.
3. Upon completion of the program, the student will be able to identify the historical and cultural dimension of theatre, including the works of leading playwrights, actors, directors, and designers.
4. Upon completion of the program, the student will be able to explain and practice basic production processes such as acting, scenic, costume, and make-up design, and technical operation related to production.
5. Upon completion of the program, the student will be able to develop a structural approach to interpretation of language in dramatic text.
6. Upon completion of the program, the student will be able to effectively practice the theatre arts through involvement in the creation and presentation of public performances in theatre.

Requirements**COURSES REQUIRED FOR THE MAJOR:****Units: 9.0**

The department suggests that students take DRAM 124 prior to enrolling in DRAM 144A and DRAM 146A.

DRAM 124	Makeup for the Stage	3.0
DRAM 145A	Introduction to Theatrical Glamour: Promotional Events	3.0
DRAM 146C	Introduction to Theatrical Glamour Practicum: Promotional Events	3.0

Total: 9.0

THREE-DIMENSIONAL ART - ASSOCIATE OF ARTS DEGREE: CITY

Summary

The Associate of Arts in Three-Dimensional Art focuses on the development of artistic practice through exploration, experimentation, studio work, and study of art history. As students develop ideas and express them in a variety of three-dimensional forms, they examine how their artwork reflects the time and culture within which they are creating it and how their work fits into the history of art and contemporary art practice.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Students who complete the program will be able to interpret, evaluate and critiques orally and in writing visual works of art.
2. Students who complete the program will be able to produce visual works of art in a variety of mediums. Choose the most appropriate materials, tools and techniques to meet artist goals.
3. Students who complete the program will be able to produce visual works of art reflecting global awareness, cultural diversity.
4. Students who complete the program will be able to demonstrate knowledge of specific historical and cultural art styles.
5. Students who complete the program will be able to solve basic problems of visual expression and describe its historical or contemporary context.

Requirements**COURSES REQUIRED FOR THE MAJOR:****Units: 24.0**

ARTF 110	Art History: Prehistoric to Gothic	3.0
ARTF 111	Art History: Renaissance to Modern	3.0
ARTF 150A	Two-Dimensional Design	3.0
ARTF 151	Three-Dimensional Design	3.0
ARTF 155A	Freehand Drawing I	3.0
ARTF 170A	Contemporary Crafts I	3.0
ARTF 175A	Sculpture I	3.0
ARTF 195A	Ceramics I	3.0

Select six (6 units) from the following:**Units: 6.0**

ARTF 104	Artists and Designers Today	3.0
ARTF 170B	Contemporary Crafts II	3.0
ARTF 170C	Contemporary Crafts III	3.0
ARTF 175B	Sculpture II	3.0
ARTF 175C	Sculpture III	3.0
ARTF 179A	Figurative Ceramic Sculpture I	3.0
ARTF 195B	Ceramics II	3.0
ARTF 195C	Ceramics III	3.0
ARTF 196	Clay and Glaze Technology	3.0
ARTF 197A	Handbuilding Ceramics I	3.0
ARTF 197B	Handbuilding Ceramics II	3.0
ARTF 206	Art Entrepreneurship	3.0
ARTF 207A	Industrial and Architectural Ceramic Design I	3.0
ARTF 207B	Industrial and Architectural Ceramic Design II	3.0
ARTF 212	Sustainable Art and Design	3.0
ARTF 260	Studio Art Studies	3.0

Total: 30.0

TOOL AND CUTTER GRINDER - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

This is a four-year state-registered apprenticeship program in machining and manufacturing related trades. Apprenticeship programs require full time employment with a program sponsor. Applications for these programs are available through the following companies: Jet Products Corporation, 9106 Balboa Ave., San Diego, CA 92123; Custom Cutting Tools, 9630 Black Mountain Road, Ste. A, San Diego, CA 92126

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Requirements

COURSES REQUIRED FOR THE MAJOR:		Units: 16.0
ENGE 108	Dimensioning and Tolerancing	3.0
ENGE 151	Computer-Aided Design	2.0
ENGE 152	Engineering Design	3.0
MACT 140	Machine Technology	4.0
MACT 150	Intro/Computer Numerical Control (CNC)	4.0
MATH 96	Intermediate Algebra and Geometry	5.0
		Total: 16.0

TOOL AND CUTTER GRINDER - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

This is a four-year state-registered apprenticeship program in machining and manufacturing related trades. Apprenticeship programs require full time employment with a program sponsor. Applications for these programs are available through the following companies: Jet Products Corporation, 9106 Balboa Ave., San Diego, CA 92123; Custom Cutting Tools, 9630 Black Mountain Road, Ste. A, San Diego, CA 92126

Requirements

COURSES REQUIRED FOR THE MAJOR:		Units: 21.0-16.0
ENGE 108	Dimensioning and Tolerancing	3.0
ENGE 151	Computer-Aided Design	2.0
ENGE 152	Engineering Design	3.0
MACT 140	Machine Technology	4.0
MACT 150	Intro/Computer Numerical Control (CNC)	4.0
MATH 96	Intermediate Algebra and Geometry	5.0-0.0
		Total: 21.0-16.0

TWO-DIMENSIONAL ART - ASSOCIATE OF ARTS DEGREE: CITY

Summary

The Fine Art major at San Diego City College is one of six options in the Visual and Performing Arts division. The program provides the opportunity for students to develop fundamental skills in art studio and art history for transferring to a four-year institution. The program inspires creative and technological innovation while preparing students for advanced artwork and pursuing entrepreneurial careers in art. Students learn to think critically, collaborate, research, and express artistic ideas in state-of-the-art facilities. The on-campus City Gallery engages students with contemporary art while broadening their cultural, social, economic, and political perspectives.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Students who complete the program will be able to interpret, evaluate and critiques orally and in writing visual works of art.
2. Students who complete the program will be able to produce visual works of art in a variety of mediums. Choose the most appropriate materials, tools and techniques to meet artist goals.
3. Students who complete the program will be able to produce visual works of art reflecting global awareness, cultural diversity.

- Students who complete the program will be able to demonstrate knowledge of specific historical and cultural art styles.
- Students who complete the program will be able to solve basic problems of visual expression and describe its historical or contemporary context.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 21.0

ARTF 110	Art History: Prehistoric to Gothic	3.0
ARTF 111	Art History: Renaissance to Modern	3.0
ARTF 150A	Two-Dimensional Design	3.0
ARTF 151	Three-Dimensional Design	3.0
ARTF 155A	Freehand Drawing I	3.0
ARTF 155B	Freehand Drawing II	3.0
ARTF 210A	Life Drawing I	3.0

Select six (6) units from the following:

Units: 6.0

ARTF 104	Artists and Designers Today	3.0
DSGN 102	Digital Media I	3.0
ARTF 156A	Drawing for Animation	3.0
ARTF 165A	Composition in Painting I	3.0
ARTF 165B	Composition in Painting II	3.0
ARTF 165C	Composition in Painting III	3.0
ARTF 165D	Composition in Painting IV	3.0
ARTF 198A	Introduction to Printmaking I	3.0
ARTF 205A	Installation, Performance, and New Genres	3.0
ARTF 206	Art Entrepreneurship	3.0
ARTF 210B	Life Drawing II	3.0
ARTF 210C	Life Drawing III	3.0
ARTF 260	Studio Art Studies	3.0

Total: 27.0

URBAN FARMING PROFESSIONAL - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

This certificate prepares students and professionals to establish and operate an organic urban farm business.

Learning Outcome(s):

- Students who complete the program will be able to demonstrate basic propagation techniques.
- Students who complete the program will be able to identify plant disease and pests and incorporate integrated pest management and other organic strategies for a resilient food system.
- Students who complete the program will be able to create a crop plan that is appropriate for the southwest region.
- Students who complete the program will be able to evaluate the soil food web.
- Students who complete the program will be able to design an organic urban farm that supports natural ecosystems, human health, and water conservation.
- Students who complete the program will be able to understand and explain the components of a food system.
- Students who complete the program will be able to understand and explain the three facets of sustainability (economic, environmental and social) both in general and as they apply specifically to landscaping, practices.

Requirements

COURSES REQUIRED FOR THE MAJOR:**Units:** 27.0-30.0

AGRI 100	Principles of Sustainable Agriculture	3.0
AGRI 102	Sustainable Urban Agricultural Practice	3.0
AGRI 104	Sustainable Vegetable Production	3.0
AGRI 110	Introduction to Fruit Tree Management	3.0
AGRI 114	Plant Propagation	3.0
AGRI 116	Drip Irrigation Basics	2.0
AGRI 125	Introduction to Soil Science	3.0
AGRI 270	Work Experience in Sustainable Urban Agriculture	1.0-4.0
BUSE 157	Developing a Plan for the Small Business	3.0
BUSE 119	Business Communications	3.0

¹AGRI 270 is only offered as a 3 unit course.

Total: 27.0-30.0

URBAN GARDENING - CERTIFICATE OF ACHIEVEMENT: CITY

Summary

This certificate prepares students for careers at an organic farm, nursery, commercial greenhouse or to manage a community garden.

Note: This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Note:

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Students who complete the program will be able to demonstrate basic propagation techniques.
2. Students who complete the program will be able to create a crop plan that is appropriate for the southwest region.
3. Students who complete the program will be able to identify plant disease and pests and incorporate integrated pest management and other organic strategies for a resilient food system.
4. Students who complete the program will be able to evaluate the soil food web.
5. Students who complete the program will be able to design an organic urban farm that supports natural ecosystems, human health, and water conservation.
6. Students who complete the program will be able to understand and explain the components of a food system.
7. Students who complete the program will be able to understand and explain the three facets of sustainability (economic, environmental and social) both in general and as they apply specifically to landscaping, practices.

Requirements**COURSES REQUIRED FOR THE MAJOR:****Units:** 6.0

AGRI 102	Sustainable Urban Agricultural Practice	3.0
AGRI 104	Sustainable Vegetable Production	3.0

Choose 6 units from the following electives:**Units:** 6.0

AGRI 100	Principles of Sustainable Agriculture	3.0
AGRI 107	Introduction to Agricultural Plant Science	4.0
AGRI 110	Introduction to Fruit Tree Management	3.0
AGRI 114	Plant Propagation	3.0
AGRI 116	Drip Irrigation Basics	2.0

AGRI 125	Introduction to Soil Science	3.0
AGRI 128	Food Preservation Skills	1.0

Total: 12.0

MEDIA PRODUCTION - ASSOCIATE OF SCIENCE DEGREE: CITY

Summary

The Associates of Science Degree in Media Production offers hands-on training and experience in the fundamentals of content creation, using new and emerging multimedia tools and technologies in our state-of-the-art facilities. The program emphasis is placed on production, writing, audio recording, and video editing. Other topics addressed include voice-over performance, audio editing, and radio station and podcast marketing. Students can contribute to the award-winning City Times Media platform and its many partners, including TV news, digital news, radio/podcast, and independent film. This program is designed for students interested in enhancing their skills and knowledge of media production, students majoring in Media Production, and for those seeking entry-level employment in related industries. The skills acquired with this AS Degree may lead to employment, freelance assignments, or corporate media work. These jobs include, but are not limited to, social media content producers, multimedia producers, directors, writers, reporters, program assistants, camera operators, videographers, audio technicians, studio technicians, video editors, and motion graphics designers.

Award Note:

The Associate Degree requires a minimum of 60 semester units that are eligible for transfer.

Learning Outcome(s):

1. Apply principles of diversity, equity, and media law and ethics.
2. Conduct research and evaluate information by methods appropriate to the media professions in which they work.
3. Write in forms and styles appropriate for media professions, audiences, and purposes they serve.
4. Apply tools and technologies appropriate for the media professions in which they work.

Requirements

COURSES REQUIRED FOR THE MAJOR: Units: 9.0

FJMP 112	Introduction to Audio Production	3.0
		3.0
FJMP 120	Introduction to Screenwriting	3.0
OR		
FJMP 130	Newswriting for Multiplatform Journalism	3.0
		3.0
FJMP 122	Documentary Film Production	3.0
OR		
FJMP 132	Multiplatform Journalism Production	3.0
OR		
FJMP 133	Broadcast News Production	3.0
OR		
FJMP 142	Radio and Podcast Production	3.0

Complete six (6) units from the following: Units: 6.0

FJMP 110	Introduction to Video Editing	3.0
FJMP 111	Single Camera Production	3.0
FJMP 144	Multi-Camera Studio Operations	3.0

Complete three (3) units from the following:**Units: 3.0**

FJMP 123	The Producer's Role in Film	3.0
FJMP 124	Video Motion Graphics	3.0
FJMP 131	Multimedia Journalism Reporting	3.0
FJMP 134	Multiplatform Magazine Production	3.0
DRAM 106	Voice-Over Performance	3.0
FJMP 141	Audio Storytelling for Radio and Podcast	3.0
FJMP 143	On-Camera Performance	3.0
FJMP 145	Art Direction for Film and Media Production	3.0
FJMP 146	Lighting for Film and Media Production	3.0
FJMP 211	Single Camera Production Workshop	3.0
FJMP 222	Documentary Film Production Workshop	3.0
FJMP 232A	Multiplatform Journalism Workshop I	3.0
FJMP 233A	Broadcast News Workshop I	3.0
FJMP 242A	Radio and Podcast Workshop I	3.0

Total: 18.0

MEDIA PRODUCTION - CERTIFICATE OF ACHIEVEMENT: CITY**Summary**

The Certificate of Achievement in Media Production offers hands-on training and experience in the fundamentals of content creation, using new and emerging multimedia tools and technologies in our state-of-the-art facilities. The program emphasis is placed on production, writing, audio recording, and video editing. Other topics addressed include voiceover performance, audio editing, and radio station and podcast marketing. Students can contribute to the award-winning City Times Media platform and its many partners, including TV news, digital news, radio/podcast, and independent film. This program is designed for students interested in enhancing their skills and knowledge of media production, students majoring in Media Production, and for those seeking entry-level employment in related industries. The skills acquired with this certificate may lead to employment, freelance assignments, or corporate media work. These jobs include, but are not limited to, multimedia producers, social media content producers, directors, writers, reporters, program assistants, camera operators, videographers, audio technicians, studio technicians, video editors, and motion graphics designers.

Learning Outcome(s):

1. Apply principles of diversity, equity, and media law and ethics.
2. Conduct research and evaluate information by methods appropriate to the media professions in which they work.
3. Write in forms and styles appropriate for media professions, audiences, and purposes they serve.
4. Apply tools and technologies appropriate for the media professions in which they work.

Requirements**COURSES REQUIRED FOR THE MAJOR:****Units: 9.0**

FJMP 112	Introduction to Audio Production	3.0
		3.0
FJMP 120	Introduction to Screenwriting	3.0
OR		
FJMP 130	Newsriting for Multiplatform Journalism	3.0
		3.0
FJMP 122	Documentary Film Production	3.0

OR		
FJMP 132	Multiplatform Journalism Production	3.0
OR		
FJMP 133	Broadcast News Production	3.0
OR		
FJMP 142	Radio and Podcast Production	3.0

Complete six (6) units from the following:

Units: 6.0

FJMP 110	Introduction to Video Editing	3.0
FJMP 111	Single Camera Production	3.0
FJMP 144	Multi-Camera Studio Operations	3.0

Complete three (3) units from the following:

Units: 3.0

FJMP 123	The Producer's Role in Film	3.0
FJMP 124	Video Motion Graphics	3.0
FJMP 131	Multimedia Journalism Reporting	3.0
FJMP 134	Multiplatform Magazine Production	3.0
DRAM 106	Voice-Over Performance	3.0
FJMP 141	Audio Storytelling for Radio and Podcast	3.0
FJMP 143	On-Camera Performance	3.0
FJMP 145	Art Direction for Film and Media Production	3.0
FJMP 146	Lighting for Film and Media Production	3.0
FJMP 211	Single Camera Production Workshop	3.0
FJMP 222	Documentary Film Production Workshop	3.0
FJMP 232A	Multiplatform Journalism Workshop I	3.0
FJMP 233A	Broadcast News Workshop I	3.0
FJMP 242A	Radio and Podcast Workshop I	3.0

Total: 18.0

MEDIA PRODUCTION - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Certificate of Performance in Media Production offers hands-on training and experience in the fundamentals of content creation, using new and emerging multimedia tools and technologies in our state-of-the-art facilities. The program emphasis is placed on production, writing, audio recording, and video editing. Other topics addressed include voice-over performance, audio editing, and radio station and podcast marketing. Students can contribute to the award-winning City Times Media platform and its many partners, including TV news, digital news, radio/podcast, and independent film. This program is designed for students interested in enhancing their skills and knowledge of media production, students majoring in Media Production, and for those seeking entry-level employment in related industries.

The skills acquired with this certificate may lead to employment, freelance assignments, or corporate media work. These jobs include, but are not limited to, multimedia producers, social media content producers, directors, writers, reporters, program assistants, camera operators, videographers, audio technicians, studio technicians, video editors, and motion graphics designers.

*This is a department award in recognition of information on the transcript and does not imply that a graduation requirement has been met

Note:

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student’s transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Apply principles of diversity, equity, and media law and ethics.
2. Conduct research and evaluate information by methods appropriate to the media professions in which they work.
3. Write in forms and styles appropriate for media professions, audiences, and purposes they serve.
4. Apply tools and technologies appropriate for the media professions in which they work.

Requirements

COURSES REQUIRED FOR THE MAJOR:		Units: 3.0
FJMP 101	Introduction to Mass Media	3.0
Complete six (6) units from the following:		Units: 6.0
FJMP 110	Introduction to Video Editing	3.0
FJMP 111	Single Camera Production	3.0
FJMP 112	Introduction to Audio Production	3.0
FJMP 122	Documentary Film Production	3.0
FJMP 124	Video Motion Graphics	3.0
FJMP 130	Newswriting for Multiplatform Journalism	3.0
FJMP 131	Multimedia Journalism Reporting	3.0
FJMP 132	Multiplatform Journalism Production	3.0
FJMP 133	Broadcast News Production	3.0
DRAM 106	Voice-Over Performance	3.0
FJMP 141	Audio Storytelling for Radio and Podcast	3.0
FJMP 142	Radio and Podcast Production	3.0
FJMP 143	On-Camera Performance	3.0
FJMP 144	Multi-Camera Studio Operations	3.0

Total: 9.0

VITA TAX PREPARATION TRAINING - CERTIFICATE OF PERFORMANCE: CITY

Summary

This program provides an in-depth exploration of tax preparation and community outreach. Students are trained in tax preparation methods through the Volunteer Income Tax Assistance Program (VITA). VITA provides free tax preparation services to low-income households in the community. Students are trained to prepare taxes for these households through the Internal Revenue Service (IRS) tax software. Students may be certified at a basic and advanced level of VITA and IRS tax preparation upon completion of this program.

***A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.**

Note: This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Students who complete the program will be able to leverage technology to manage and use information for decision making.
2. Students who complete the program will be able to analyze business scenarios to formulate and implement plans of action.
3. Students who complete the program will be able to develop and apply appropriate communication skills across various business settings.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 2.0-5.0

ACCT 132	Internal Revenue Service Tax Training	1.0
ACCT 270	Accounting Internship / Work Experience	1.0-4.0

Total: 2.0-5.0

WEB APPLICATION DEVELOPMENT - CERTIFICATE OF PERFORMANCE: CITY

Summary

Attention is placed on the theory and practice of computer programming emphasizing business and computer applications. Students receive hands-on experience in the fundamentals of designing and developing dynamic website using the Ruby on Rails programming language.

Note:

Students who successfully complete this award will be able to: Develop and maintain a dynamic website; and; Work with server-side and client-side database applications.

*A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District. This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Upon completion of the program, the student will be able to apply security principles and practices to maintain operations in the presence of risks and threats.
2. Upon completion of the program, the student will be able to function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
3. Upon completion of the program, the student will be able to recognize professional responsibilities and make informed judgments in computing practice, taking into account legal, ethical, diversity, equity, inclusion, and accessibility principles consistent with the mission of the institution.
4. Upon completion of the program, the student will be able to communicate effectively in a variety of professional contexts.
5. Upon completion of the program, the student will be able to design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
6. Upon completion of the program, the student will be able to analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 4.0

CISC 183	Web Development with Ruby on Rails	4.0
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Select one of the following courses:

Units: 4.0

CISC 179	Introduction to Python Programming	4.0
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CISC 186	Visual Basic Programming	4.0
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CISC 190	Java Programming	4.0
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CISC 192	C/C++ Programming	4.0
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Total: 8.0

WRITING AND COMPUTATIONAL SKILLS FOR BUSINESS - CERTIFICATE OF PERFORMANCE: CITY

Summary

The Certificate of Performance in Writing and Computational Skills for Business is designed to provide students with the fundamental computational and writing skills required in an office environment.

Note:

The Business Department recommends that students planning to transfer select BUSE 119 instead of BUSE 92. *A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Award Notes:

A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

This program is not eligible for federal financial aid in accordance with Federal regulations.

Learning Outcome(s):

1. Students who complete the certificate will be able to learn basic mathematics and the mathematics used in business.
2. Students who complete the certificate will be able to analyze, organize, and compose various types of written and oral business communications.

Requirements

COURSES REQUIRED FOR THE MAJOR:

Units: 6.0

BUSE 92	Introduction to Business Communication	3.0
OR		3.0
BUSE 119	Business Communications	3.0
BUSE 101	Business Mathematics	3.0

The Business Department recommends that students planning to transfer select BUSE 119 instead of BUSE 092.

Total: 6.0

Course Descriptions

General Course Information

Not all courses listed will be offered each semester, and San Diego City College reserves the right to cancel any course if enrollment in such course is below a minimum number as set by the San Diego Community College District Board of Trustees. The hours indicated at the beginning of each course description, except where otherwise specified, denote the total number of clock hours the class meets each week.

Effective 2009-2010 catalog year (and each year thereafter), students must earn a grade of "C" or better in courses required for the major.

Students enrolled in occupational and health occupation programs must earn a grade of "C" or better in courses required for the major.

In accordance with California Education Code, Section 78221.5, students have the right to access transfer-level coursework and academic credit English Language Acquisition (ELAC) coursework. Please refer to [Assessment](#) or see a counselor for details.

Course Numbering System

The course numbering system has meaning with regard to level and transfer. See the description below:

- **1–49** Basic Skills or college preparatory courses. Credit does not apply toward the associate degree and is not intended for transfer to a four-year college or university. Final determination regarding the transfer of credit rests with the receiving institution.
- **50–99** Course credit applies toward the associate degree and is not intended for transfer to a four-year college or university. Final determination regarding the transfer of credit rests with the receiving institution.
- **100–299** Course credit applies toward the associate degree and is intended for transfer to a four-year college or university. (Some courses may be identified as associate degree applicable only. See catalog course description.) Final determination regarding the transfer of credit rests with the receiving institution. Note: Experimental courses numbered 265 may or may not be degree applicable or transferable. Please check the individual course details in the online schedule for more information.
- **300–391** Apprenticeship and in-service courses. See Catalog course description to determine credit for Associate Degree or Transfer.
- **392–399** Special Topics courses that employ a consistent disciplinary framework as described by a complete course outline of record, but utilize a specific focus area that may change from term to term may be offered in some disciplines. See the class schedule for specific titles and course details. (See catalog course description to determine credit for Associate Degree or Transfer.)
- **400–599** Upper division courses. Students must be admitted to a SDCCD college baccalaureate degree program.

Apprenticeship 345, 349, 349-D, DSPS 65, Field Experience/Internship 275, Independent Study 290, Individualized Instruction 296, Experimental Topics 18, 23, 63, 265, Tutoring 44, and Work Experience courses 270, 272 have Districtwide designated numbers.

Prerequisites, Corequisites, Limitations on Enrollment, and Advisories

All prerequisites, corequisites, and limitations on enrollment stated in the course descriptions listed in this catalog will be strictly enforced at the time of registration. Students who do not meet the prerequisite, corequisite, or other limitation according to the college's records, will not be permitted to register for the course. Students are strongly advised to have all transcripts of prior college work and other documentation on file well in advance of registration. This will minimize registration delays. For more information refer to [this section in the catalog](#).

Students should plan their schedule early and see a counselor for assistance.

Challenge Procedures

A student may obtain a petition to Challenge online via the mySDCCD Support Desk and then selecting the [Petition to Challenge form](#).

The completed petition with supporting documentation must be filed in the Admissions Office AT LEAST 10 working days prior to the start of the primary term/semester. Contact the Admissions Office for additional information. For credit by examination, please refer to [that section](#).

Generic Course Information

Any discipline or department may offer the courses listed below which do not appear individually in the catalog. If applicable to a particular subject area, it will be listed under the appropriate departmental heading (subject indicator) in the college class schedule. For further information, please check with the instructor or department chair.

Supervised Tutoring (44)

Supervised tutoring courses are available in each discipline. To enroll in a supervised tutoring course, a student must be enrolled in a college or basic skills course in the respective discipline. The courses are designed to prepare the student to succeed in the corequisite or subsequent courses. Supervised tutoring may be taken four times, each time with a different corequisite. Not applicable to the Associate Degree.

Experimental Topics (265)

Experimental topics courses that examine an immediate specialized need or focused academic inquiry may be offered in some disciplines. See the class schedule for specific titles and course details.

Special Topics Courses (392–399)

Special topics courses that employ a consistent disciplinary framework as described by a complete course outline of record, but utilize a specific focus area that may change from term to term may be offered in some disciplines. See the class schedule for specific titles and course details. (See catalog course description to determine credit for Associate Degree or Transfer.)

Work Experience (270)

Program of on-the-job learning experiences for students employed in a job related to the major. Students may earn a maximum of fourteen credit hours for all work experience subject areas during one enrollment period. AA/AS; CSU.

Service Learning

Students gain hands-on experience in project planning, development, implementation and evaluation. Students meet weekly to receive support training and development opportunities regarding best practices in Service Learning. The service-learning options are as follows:

Service Learning—High School Projects (277A)

Students in this course develop and implement service-learning projects to help high school students under the supervision of college faculty and in cooperation with high school teachers, counselors and resource teachers. Projects may include collaboration with high school classes, educational projects for high school students, mentoring and shadowing. This course is intended for students from any discipline who are interested in project development, development of teaching skills or enhancement of communication and planning skills. Course

segments may be taken in any order. The combined credit for all 277A discipline courses may not exceed three units. AA/AS; CSU.

Service Learning—Elementary and Junior High School Projects (277B)

Students in this course develop and implement service learning projects to help elementary and junior high school students under the supervision of college faculty and in cooperation with elementary and junior high school teachers, counselors and resource teachers. Projects may include collaboration with elementary and junior high school classes, educational projects for elementary and junior high school students, mentoring, and shadowing. This course is intended for students from any discipline who are interested in project development, development of teaching skills, or enhancement of communication and planning skills. Course segments may be taken in any order. The combined credit for all 277B discipline courses may not exceed three units. AA/AS; CSU.

Service Learning—Community (277C)

Students in this course develop and implement service-learning projects to help the college's community under the supervision of college faculty and in cooperation with the staff of community organizations and agencies. Projects may include collaboration with off-campus community organizations and educational service oriented projects for the college's community. This course is intended for students from any discipline who are interested in project development, development of teaching skills, or enhancement of communication and planning skills. Course segments may be taken in any order. The combined credit for all 277C discipline courses may not exceed three units. AA/AS; CSU.

Service Learning—On Campus (277D)

Students in this course develop and implement service-learning projects to help the college's students under the supervision of college faculty and in cooperation with college counselors and staff. Projects may include collaboration with college classes, educational projects for college students, mentoring, and shadowing. This course is intended for students from any discipline who are interested in project development, development of teaching skills, or enhancement of communication and planning skills. Course segments may be taken in any order. The combined credit for all 277D discipline courses may not exceed three units. AA/AS; CSU.

Independent Study (290)

This course is for students who wish to conduct additional research, a special project, or learning activities in a specific discipline/subject area and is not intended to replace an existing course in the discipline. In this course students will have a written contract with their instructor for activities such as: preparing problem analysis, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals. AA/AS; CSU.

Individualized Instruction (296)

This course provides supplemental instruction to reinforce achievement of the learning objectives of a course in the same discipline under the supervision of the instructor of the designated course. Learning activities may employ a variety of self-paced multimedia learning systems, language labs, print and electronic resources, laboratory, or field research arrangements, to assist student in reaching specific learning objectives. This open entry/open exit course is offered concurrently with designated courses. AA/AS; CSU.

Explanation of Terms

Courses in the San Diego Community College District that are associate degree applicable and/or transfer to public four-year universities in California are identified at the end of each course description with the following statements:

AA/AS: Associate Degree Applicable. The course will apply toward the units required for the associate degree at San Diego Community College District colleges. The course is not intended for transfer to a four-year college or university. However, final determination of transfer credit rests with the receiving institution.

CSU: California State University Applicable. The course will apply toward the units required for the baccalaureate degree at the California State University system.

UC: University of California Applicable. The course will apply toward the units required for the baccalaureate degree at the University of California system.

UC Transfer Limitation. See a counselor or reference ASSIST.org: There may be limitations on the number of units that are applied from this course toward the total number of lower division units required for the baccalaureate degree at the University of California. Students should see a counselor or reference ASSIST.org concerning these limitations. The University of California limits the maximum amount of lower division credit that can be applied toward the baccalaureate degree in a variety of disciplines, including Journalism, Photography, Health, Business Administration, Architecture, Administration of Justice (Criminology) and Library Science.

Field Trip: (FT) A field trip may be required for this course. Detailed information concerning costs incurred will be provided by the instructor.

Private Colleges/Independent/Out-of-State:

Note regarding Private / Independent / Out-of-state institutions: San Diego Community College District courses that are designated as CSU or UC transferable may apply toward the total number of lower division units required for the baccalaureate degree at private, independent, and/or out-of-state colleges and universities; however, the final evaluation of course credit will be determined by the individual private, independent, or out-of-state institution.

Exercise Science Classes/Intercollegiate Sports-disclaimer

Participation in all sports and exercise science activities involves certain inherent risks. Risks may include, but are not limited to, neck and spinal injuries that may result in paralysis or brain injury, injury to bones, joints, ligaments, muscles, tendons and other aspects of the muscular skeleton system; and serious injury, or impairment, to other aspects of the body and general health, including death. The San Diego Community College District, its officers, agents and employees are not responsible for the inherent risks associated with participation in exercise science classes/intercollegiate sports. Students are strongly advised to consult a physician prior to participating in any exercise science activity.

UC Transfer and Physical Education Courses

The University of California divides physical education courses into three categories: 1) Activity; 2) Theory, and 3) Academic/Scholarly. Credit for Activity courses is limited to four (4) units. Credit for Theory courses is limited to eight (8) units. No credit limitation is established for Academic/Scholarly courses. All UC-transferable physical education courses and their associated unit limitations are listed on Web [ASSIST](#).

UC Transfer and Variable Topics Courses

These courses are also called "Independent Studies", "Special Studies", "Experimental Topics", "Field Work", etc. Credit for variable topics courses is given only after a review of the scope and content of the course by the enrolling UC campus. This usually occurs after transfer and may require recommendations from faculty. Information about internships may also be presented for review, but credit for internships rarely transfers to UC. UC does not grant credit for variable topics courses in Journalism, Photography, Health, Business Administration, Architecture, Administration of Justice (Criminology) or Library Departments because of credit restrictions in these areas.

Course Identification Numbering System (C-ID)

The Course Identification Numbering System (C-ID) is a statewide numbering system independent from the course numbers assigned by local California community colleges. The purpose of a C-ID designation is to identify comparable courses within the California community college system and participating four-year institutions. When a C-ID number is listed in the catalog in association with a course, students can be assured that it will be accepted in lieu of a course bearing the same C-ID designation at another California community college. Many universities, including the University of California (UC) do not participate in the C-ID system. Therefore, students should always reference [www.assist.org](#) to confirm how each community college's course will be accepted at a specific four-year college or university for transfer credit.

AAPI-Asian American Pacific Islander Studies

AAPI 124 Introduction to Asian American and Pacific Islander Studies

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is an introduction to the interdisciplinary field of Asian American and Pacific Islander (AAPI) Studies. The course explores the diverse histories and contemporary social, cultural, and political experiences of Asian Americans and Pacific Islanders. Emphasis is placed on how settler colonialism, imperialism, racial capitalism, globalization, war, American empire, citizenship, and various aspects of identity such as race, class, gender, and sexuality have shaped AAPI experiences and their social justice movements. Students will explore the topics through the lens of equity, self-determination, decolonization, and anti-racism. This course is intended for all students interested in Asian American and Pacific Islander Studies and Ethnic Studies.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

AAPI 124 Introduction to Asian American and Pacific Islander Studies

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is an introduction to the interdisciplinary field of Asian American and Pacific Islander (AAPI) Studies. The course explores the diverse histories and contemporary social, cultural, and political experiences of Asian Americans and Pacific Islanders. Emphasis is placed on how settler colonialism, imperialism, racial capitalism, globalization, war, American empire, citizenship, and various aspects of identity such as race, class, gender, and sexuality have shaped AAPI experiences and their social justice movements. Students will explore the topics through the lens of equity, self-determination, decolonization, and anti-racism. This course is intended for all students interested in Asian American and Pacific Islander Studies and Ethnic Studies.

FT; AA/AS; CSU; UC.

ACCT-Accounting

ACCT 102 Basic Accounting

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course is a study of the theory and practice of the accounting process. Emphasis is placed on accounting transactions and bookkeeping. Topics include business documents; journals and ledgers; opening, adjusting and closing entries; and payroll. This course is intended for students interested in a practical approach to accounting. It can be used as preparation for the Certified Public Accountant (CPA) exam.

FT; AA/AS; CSU.

ACCT 116A Financial Accounting

64-72 hours lecture; 4 units

Grading: Letter Grade Only

Advisory: ACCT 102 with a Grade of "C" or better, or equivalent

This introductory course is an overview of financial accounting, why it is important, and how it is used by investors and creditors to make decisions. It covers the accounting information system, the recording and reporting of business transactions with a focus on the accounting cycle, the applications of generally accepted accounting principles (GAAP), the classified financial statements, and statement analysis. Other topics include issues related to asset, liability, and equity valuation; revenue and expense recognition; cash flows; internal controls; and ethics. This course is intended for students majoring in accounting or other fields related to business administration.

FT; AA/AS; CSU; UC; C-ID: ACCT 110.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

ACCT 116B Managerial Accounting

64-72 hours lecture; 4 units

Grading: Letter Grade Only

Prerequisite: ACCT 116A with a Grade of "C" or better, or equivalent

This course is a study of how managers use accounting information in decision-making, planning, directing operations, and controlling. The course focuses on cost terms and concepts, cost behavior, cost structure, and cost-volume-profit analysis. Other topics include profit planning, standard costs, operations and capital budgeting, cost control, and accounting for costs in manufacturing organizations. This course is intended for students majoring in accounting or other fields related to business administration.

FT; AA/AS; CSU; UC; C-ID: ACCT 120.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

ACCT 119 Accounting Ethics

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course provides an introduction to ethical reasoning, integrity, objectivity, independence, core values, and professional issues in accounting. Emphasis is placed on the importance of ethics in tax preparation, managerial accounting, and attest services. This course explores various models of accounting ethics through today's professional requirements of the American Institute of Certified Professional Accountant's (AICPA) Code of Professional Conduct, the State Board of Accountancy, Internal Revenue Service Circular No. 230, and other regulatory agencies. This course is intended for students majoring in Accounting, Certified Public Accountant (CPA) licensees, CPA exam applicants, Enrolled Agents, and other tax return preparers. Note: Students interested in earning Enrolled Agent, Enrolled Retirement Plan Agent, or Registered Tax Return Preparer continuing education credits with the Internal Revenue Service, must take Accounting 119 with San Diego City College.

FT; AA/AS; CSU.

ACCT 120 Federal Income Tax

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: Completion of or concurrent enrollment in:

ACCT 116A with a Grade of "C" or better, or equivalent

This course introduces tax concepts and tax laws that govern individuals who pay federal income taxes. Emphasis is placed on recognizing the social, economic, and political factors that Congress considers when it creates tax laws.

This course relates tax codes to the individual and identifies how tax planning skills can determine economic outcomes. In addition, the course demonstrates and differentiates between tax avoidance and tax evasion. It is intended for students majoring in Accounting or anyone interested in federal income tax concepts and laws.

FT; AA/AS; CSU.

ACCT 121 California Income Tax

16-18 hours lecture; 1 unit

Grading: Letter Grade Only

Advisory: Concurrent enrollment in: ACCT 120

This course is a study of California personal income taxation and tax planning. Emphasis is placed on tax concepts and related social economic issues rather than tax return preparation. The course distinguishes between California and federal income tax requirements. It is intended for all students interested in California income tax.

FT; AA/AS; CSU.

ACCT 125 Government & Not-for-Profit Accounting

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: ACCT 116A with a Grade of "C" or better, or equivalent

The course provides instruction in the principles of fund accounting and budgeting including revenues, appropriations, encumbrances, internal controls for both governmental and not-for-profit entities. This course is intended for students majoring in Accounting and returning students preparing for their Certified Public Accountant (CPA) exam.

ACCT 128A Recordkeeping**24-27 hours lecture; 1.5 units****Grading:** Letter Grade Only

This course is an introductory study of basic accounting recordkeeping procedures required to manage a business. Emphasis is placed on the practical application of recording, summarizing, and reporting business transactions for internal purposes as well as for completing federal, state, and local reporting requirements. This course is for students majoring in accounting, business studies, small business owners, and anyone interested in entry-level employment in the field.

FT; AA/AS; CSU.**ACCT 128B Payroll****24-27 hours lecture; 1.5 units****Grading:** Letter Grade Only**Advisory:** ACCT 128A with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for ACCT 128

This course is an introductory study of the basic payroll requirements for businesses operating in California. Emphasis is placed on differentiating between employees and independent contractors, and the practical application of procedures related to payroll preparation, payroll deposits, and quarterly and annual payroll reports for the California and United States governments. This course is for students majoring in accounting, business studies, small business owners, and anyone interested in entry-level employment in the field.

FT; AA/AS; CSU.**ACCT 132 Internal Revenue Service Tax Training****16-18 hours lecture; 1 unit****Grading:** Letter Grade Only

This course trains students to prepare taxes through the Volunteer Income Tax Assistance Program (VITA). The VITA Program gives low-income families in the community the opportunity to receive complementary tax preparation. Emphasis for this course is placed on tax preparer VITA certification and proficiency with the Internal Revenue Service (IRS) tax software system. Topics include an overview of the tax preparation process, Form 1040 and support schedule preparation, income definition, adjustments to income, standard and itemized deductions, credit application, and VITA program requirements. This course is intended for students majoring in accounting or business, and those students interested in tax preparation.

FT; AA/AS; CSU.**ACCT 135 Principles of Auditing****48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Prerequisite:** ACCT 116A with a Grade of "C" or better, or equivalent

This is a basic course concerned with financial statement auditing as well as other assurance services provided by professional auditors. All phases of auditing including ethics, standards, planning, fieldwork and reporting are covered. This course is intended for students majoring in Accounting.

FT; AA/AS; CSU.**ACCT 150 Computer Accounting Applications****48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Advisory: Completion of or concurrent enrollment in:**

ACCT 102 with a Grade of "C" or better, or equivalent or ACCT 116A with a Grade of "C" or better, or equivalent

This course illustrates how to use accounting computer programs in a commercial business enterprise. The main objective is to provide the student with a complete guide to creating and maintaining a proper accounting system while using a popular accounting software program (QuickBooks Pro) on a personal computer. The full accounting cycle and payroll is evaluated within a typical business environment. Business transactions are identified, labeled, recorded, and processed for both service and merchandise businesses. In addition, financial statements are constructed, evaluated, and reviewed for accuracy and completeness. This course is intended for students majoring in Accounting or those interested in computer accounting programs.

FT; AA/AS; CSU.**ACCT 220 Uniform CPA Examination Review Course****64-72 hours lecture; 4 units****Grading:** Letter Grade Only

This is a review course preparing students to take the Uniform CPA Examination. Students explore a survey of each of the four sections of the exam: Auditing and Attestation (AUD), Business Environment and Concepts (BEC), Financial Accounting and Reporting (FAR), and Regulation (REG). Emphasis is placed on test-taking best practices and improving topic comprehension. This course is intended for students interested in preparing for the Uniform CPA Examination.

FT; AA/AS; CSU.

ACCT 270 Accounting Internship / Work Experience

1-4 hours other; 1-4 units

Grading: Letter Grade Only

Limitation on Enrollment: Obtain Permission Number from Instructor

This course provides on-the-job learning experiences for students employed in an accounting-related job or internship. Students develop workplace competencies, critical thinking skills, and problem solving abilities through the creation and achievement of job-related behavioral learning objectives. One unit of credit may be earned for every 54 hours of work experience. This course may be taken up to four times. A maximum of fourteen credit hours for all work experience subject areas may be earned during one enrollment period. This course is intended for students majoring in Accountancy or those interested in the accounting field.

FT; AA/AS; CSU.

ADJU-Administration of Justice

ADJU 101 Introduction to Administration of Justice

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for ADJU 101A AND/OR ADJU 101B AND/OR ADJU 101C

This course introduces students to the philosophy and history of administration of justice. It provides an overview of crime, police problems, and the organization and jurisdiction of law enforcement agencies. Students survey professional career opportunities and qualifications. This course is intended for students majoring in Administration of Justice.

FT; AA/AS; CSU; UC; C-ID: AJ 110.

ADJU 102 Criminal Law I

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course introduces students to the scope and source of criminal law and classification of crimes against persons, property, morals, and public welfare. Topics include classification and general elements of crime, the definitions of common and statutory law, acceptable evidence, types of intent, capacity to commit crimes, legal defenses, criminal culpability, parties to crime, laws of arrest, and Constitutional background. This course is intended for students majoring in Administration of Justice or anyone interested in criminal law.

FT; AA/AS; CSU; C-ID: AJ 120.

AGRI-Agriculture

AGRI 100 Principles of Sustainable Agriculture

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is an overview of the historical, social and ecological foundations for a sustainable agriculture. Students gain an understanding of the origins of agriculture, the rise of industrial agriculture, the rise of sustainable agriculture, and the context in which we find ourselves today. This course is intended for students interested in agriculture, environmental science and sustainability.

FT; AA/AS; CSU; UC.

AGRI 102 Sustainable Urban Agricultural Practice

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course integrates theoretical and practical aspects of small-scale organic urban farming. It includes hands-on instruction and an introduction to a range of farm-related topics, including composting and vermicomposting, irrigation systems, propagation and greenhouse management, soil fertility, integrated pest management, plant pathology and disease management, permaculture techniques, and small fruit orchard management. Students explore personal agricultural interests through research projects, visit local farms and gardens and attend key sustainable garden and farm events throughout the semester. This course is intended for students interested in agriculture, environmental science and sustainability.

FT; AA/AS; CSU.

AGRI 104 Sustainable Vegetable Production

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

Advisory: Completion of or concurrent enrollment in: AGRI 102 with a Grade of "C" or better, or equivalent
This course covers environmental requirements and management strategies for the sustainable production of major vegetable crops in California. Topics includes crop maintenance, crop planning, direct marketing, harvesting, post-harvest handling, and food safety for vegetable crops. Organic methods suitable for small-scale urban farms are emphasized. This course is intended for students interested in agriculture, environmental science, agricultural education, and sustainability.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

AGRI 104 Sustainable Vegetable Production

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

Advisory: Completion of or concurrent enrollment in:

AGRI 102 with a Grade of "C" or better, or equivalent

This course covers environmental requirements and management strategies for the sustainable production of major vegetable crops in California. Topics includes crop maintenance, crop planning, direct marketing, harvesting, post-harvest handling, and food safety for vegetable crops. Organic methods suitable for small-scale urban farms are emphasized. This course is intended for students interested in agriculture, environmental science, agricultural education, and sustainability.

FT; AA/AS; CSU; UC.

AGRI 107 Introduction to Agricultural Plant Science

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for AGRI 120
This course is an introduction to agricultural plant science. Emphasis is placed on the anatomy, development, physiology, reproductive biology, and ecology and evolution of agricultural plant groups. This course is intended for students majoring in Agricultural Plant Science or Sustainable Urban Agriculture and all students interested in plant science.

FT; AA/AS; CSU; UC; C-ID: AG-PS 106L.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

**AGRI 110 Introduction to Fruit Tree Management
32-36 hours lecture/1 hour lab; 3 units**

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course introduces students to fruit tree selection, planting and care for small-scale orchards or home gardens. Topics include site and variety selection, orchard design, pruning and training, basics of integrated pest management, fruit tree propagation and soil management. Major fruit trees grown in California are discussed, both deciduous and subtropical. Organic production methods are emphasized. This course is intended for students interested in agricultural production, agricultural education and sustainability.

FT; AA/AS; CSU.

AGRI 114 Plant Propagation

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent and AGRI 107 with a Grade of "C" or better, or equivalent

This course is an introduction to plant propagation and greenhouse production practices. Emphasis is placed on greenhouse operations, propagation techniques, and management of seed germination and seedling development. Topics include sexual and asexual reproduction, planting and transplanting, fertilizing, pest and disease management, propagation media and soil mixes, greenhouse structure and site layout, use and maintenance of tools and equipment, and regulations pertaining to plant production. This course is intended for students majoring in Agricultural Plant Science or Sustainable Urban Agriculture and all students interested in agricultural production management.

FT; AA/AS; CSU; C-ID: AG-EH 116L.

AGRI 116 Drip Irrigation Basics

32-36 hours lecture; 2 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course integrates theoretical and practical aspects of modern high efficiency, low volume irrigation design, installation and maintenance. Topics include water use in California's Southwestern desert climate, site analysis, soil/water relationships, and transformation of existing wasteful irrigation systems to efficient low volume systems. Students troubleshoot and solve irrigation system problems and prepare a cost estimate for an irrigation system. This course is intended for students interested in agriculture, water conservation, or landscape technology.

FT; AA/AS; CSU.

AGRI 125 Introduction to Soil Science

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for AGRI 108

This course demonstrates the vital connection between soil and the food chain that sustains life on this planet. Topics include the physical, chemical, and biological structure of soils, current trends in soil erosion and degradation control, the many roles that soil plays in our environment, and the symbiotic relationship between beneficial soil microorganisms, and plants. Students participate in creating and maintaining enhanced soil fertility through proper soil management practices. This course is intended for students majoring in Agricultural Plant Science or Sustainable Urban Agriculture and all students interested in the theory and practice of sustainable urban agriculture, soil conservation, and management.

FT; AA/AS; CSU; UC; C-ID: AG-PS 128L.

AGRI 128 Food Preservation Skills

16-18 hours lecture; 1 unit

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course introduces students to the practice of Food Preservation in a time of energy descent. Topics include canning, dehydrating, fermenting, food preservation history and philosophical approaches associated with insuring food security. This course is intended for students interested in agricultural production, culinary arts and food science.

FT; AA/AS; CSU.

AGRI 270 Work Experience in Sustainable Urban Agriculture

1-4 hours other; 1-4 units

Grading: Letter Grade Only

A program of on-the-job learning experiences for students employed in a job related to an occupationally oriented major for which no work experience course is offered. One unit of credit may be earned for every 54 hours of work experience. A maximum of fourteen credit hours for all work experience subject areas may be earned during one enrollment period.

FT; AA/AS; CSU.

AIRE-Air Conditioning, Heating, and Solar Energy

AIRE 60 Construction Safety and Health

32-36 hours lecture; 2 units

Grading: Letter Grade Only

This course is designed to prepare students to perform as what Occupational Safety and Health Administration (OSHA) defines as a competent person - able to recognize hazards associated with a particular task and mitigate associated hazards. Emphasis is placed on identifying and addressing safety and health problems on construction worksites. Topics include a broad spectrum of health and safety workplace concerns regarding OSHA construction standards. This course is designed for students interested in construction technology, job-site safety, hazard identification, avoidance control, and injury and illness prevention.

FT; AA/AS.

AIRE 94 HVAC/R Certification Training

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course is designed to prepare students for various industry recognized certifications pertaining to the Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) industry. Emphasis is placed on industry specific certification readiness. Topics include Environmental Protection Agency (EPA) Section 608 Technician Certification, Environmentally Safe R-410A Service Techniques, Preventive Maintenance Techniques, GREEN HVAC/R Technician Certification, and Techniques and Regulations for the Safe Handling of Flammable Hydrocarbon and Hydrofluoroolefin Refrigerants. This course is designed for students interested in gaining competitive advantage through certification while fulfilling entry level requirements to enter the HVAC/R industry.

FT; AA/AS.

AIRE 100 Basic Refrigeration & AC Theory

64-72 hours lecture; 4 units

Grading: Letter Grade Only

Corequisite: AIRE 103

This course is a study of elementary thermodynamics as applied to Heating, Ventilation, Air Conditioning and Refrigeration (HVACR) systems, including molecular theory of temperature, pressure and heat. Emphasis is placed on the vapor-compression refrigeration cycle, HVACR system components, their thermal performance and applications. Discussions include historical to modern systems, with emphasis placed on new energy-saving technologies and methods being employed in this dynamic industry. This course is intended for students interested in heating, refrigeration and air conditioning technology, and solar energy.

FT; AA/AS; CSU.

AIRE 103 Basic Refrigeration & AC Lab

2 hours lab; 2 units

Grading: Letter Grade Only

Corequisite: AIRE 100

This course is a hands-on, project-oriented study of the tools, materials, methods and equipment used in Heating, Ventilation, Air Conditioning and Refrigeration (HVACR). Emphasis is placed on projects related to heat transfer and the refrigeration cycle, system evacuation, charging, and refrigerant recovery and leak testing as they apply to normal HVACR industry activities. This course is intended for students interested in heating, refrigeration and air conditioning technology, and solar energy.

FT; AA/AS; CSU.

AIRE 122 Construction Drawings and Estimating**48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Corequisite:** AIRE 123**Advisory:** AIRE 100 with a Grade of "C" or better, or equivalent

This course is a study of the generation, reading and interpretation of construction drawings from initial concepts to actual building construction. Emphasis is placed on how the Heating, Ventilation, Air Conditioning and Refrigeration (HVACR) systems are integrated into the structure by architects, engineers and ultimately the construction contractors and subcontractors. Course content includes architectural, mechanical, electrical and plumbing drawings, and also covers job planning, sources and use of pricing guidelines, municipal, county, state and federal codes, energy codes and standards, specifications and computer software programs used in the development of construction drawings and used for construction estimating. This course is intended for students interested in heating, refrigeration and air conditioning technology, and solar energy.

FT; AA/AS; CSU.**AIRE 123 Construction Drawings and Estimating Lab****1 hour lab; 1 unit****Grading:** Letter Grade Only**Corequisite:** AIRE 122**Advisory:** AIRE 100 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for ENVT 123

This laboratory course provides practice in the reading of construction drawings and plans for structures and building components. Students use pricing guides for Heating, Ventilation, Air Conditioning and Refrigeration (HVACR), computer-aided drafting software, engineering and architectural scales, and elementary sketching and drawing techniques to complete laboratory projects. This course is intended for students interested in heating, refrigeration and air conditioning technology, and solar energy.

AIRE 124 Power & Control Systems Theory**48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Corequisite:** AIRE 125**Advisory: Completion of or concurrent enrollment in:**

AIRE 100 with a Grade of "C" or better, or equivalent

This course is a study of electrical power and control systems for Heating, Ventilation, Air Conditioning and Refrigeration (HVACR). Subjects include Ohm's Law and Kirchoff's Law for direct current (DC) and alternating current (AC) circuits, series and parallel power and control circuits, electrical schematic and wiring diagrams, and motor theory. Emphasis is placed on the operational theory and application of components commonly encountered in modern HVACR systems, electrical controls, and circuits for compressors, pumps and fans. This course is intended for students interested in heating, refrigeration and air conditioning technology, and solar energy.

FT; AA/AS; CSU.**AIRE 125 Power & Control Systems Lab****2 hours lab; 2 units****Grading:** Letter Grade Only**Corequisite:** AIRE 124**Advisory: Completion of or concurrent enrollment in:**

AIRE 100 with a Grade of "C" or better, or equivalent and

AIRE 103 with a Grade of "C" or better, or equivalent

This course utilizes a series of laboratory projects that provide hands-on student training with test and measuring tools, benchtop trainers and actual heating, ventilation, air conditioning and refrigeration (HVACR) systems. Projects include the use of digital-volt-ohm-meters (DVOM), in-circuit and clamp-on ammeters, meggers, and other modern tools in analyzing HVACR power and control circuits. Logical troubleshooting and diagnosis methods are demonstrated and utilized with computer simulation software and in laboratory projects. This course is intended for students interested in heating, refrigeration and air conditioning technology, and solar energy.

FT; AA/AS; CSU.

AIRE 126 Fluid Flow Dynamics**48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Corequisite:** Completion of or concurrent enrollment in: AIRE 127 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for ENVT 126

This course is a study of the fundamental laws governing airflow in ducting systems. Emphasis is placed on the fundamentals of fans, fan and system curves, common methods of air distribution, air psychometrics, and friction losses in ducts as well as on the laws of hydronics, pipe and pump sizing, pressure losses in hydronic systems, and water treatment and air filtration systems.

FT; AA/AS; CSU.**AIRE 127 Fluid Flow Dynamics Lab****2 hours lab; 2 units****Grading:** Letter Grade Only**Corequisite:** AIRE 126**Limitation on Enrollment:** This course is not open to students with previous credit for ENVT 127

This laboratory course provides practice in fluid measuring methods and instrumentation. Emphasis is placed on working with instruments such as pitot tube devices and velometers to illustrate the interaction of fluid systems curves. Course content also includes air psychometries, air and hydronic system balancing and measurement of sound.

FT; AA/AS; CSU.**AIRE 128 Comfort Heating Systems Theory****64-72 hours lecture; 4 units****Grading:** Letter Grade Only**Corequisite:** AIRE 129**Limitation on Enrollment:** This course is not open to students with previous credit for AIRE 112

This course engages in the study, identification, and understanding of the safe operation of comfort heating equipment and systems. Instruction includes the use of combustion analyzers to evaluate the combustion process of various fuels, their heat output, analysis of bi-products, equipment capacity and combustion efficiency. The course includes discussions on equipment design, installation and maintenance in common types of comfort heating systems, including forced-air fuel-fired furnaces, boilers, heatpumps and airhandlers, hydronic heating and integrated conventional and alternative energy systems. This course is intended for students pursuing certificates or an associate degree in Air Conditioning, Refrigeration and Environmental Control Technology.

FT; AA/AS; CSU.**AIRE 129 Comfort Heating Systems Lab****2 hours lab; 2 units****Grading:** Letter Grade Only**Corequisite:** AIRE 128**Limitation on Enrollment:** This course is not open to students with previous credit for AIRE 113

This course involves a series of demonstrations and lab projects to provide identification, knowledge and understanding of the safe operation of comfort heating equipment and systems. Readings from combustion analyzers are used to evaluate the combustion process of various fuels, their heat output, analysis of bi-products, equipment capacity and combustion efficiency. The course includes design, maintenance training and practice on common types of comfort heating systems, including forced-air gas-fired and oil-fired furnaces, boilers, furnaces, heatpump fancoils, hydronic heating and integrated conventional and alternative energy systems. This course is intended for students pursuing certificates or an associate degree in Air Conditioning, Refrigeration and Environmental Control Technology.

FT; AA/AS; CSU.**AIRE 132 Advanced Refrigeration & AC Theory****48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Corequisite:** AIRE 133**Advisory:** AIRE 100 with a Grade of "C" or better, or equivalent and AIRE 103 with a Grade of "C" or better, or equivalent

This course is a comprehensive thermodynamic analysis of air conditioning and refrigeration systems using Mollier diagrams and mathematical system process calculations. Topics include heat exchanger design, condensers, evaporators, cooling towers, evaporative condensers, metering devices, compressor design and performance, system piping and lubrication. Studies include multi-evaporator vapor-compression, cascade, cryogenic, and absorption systems. This course is intended for students interested in heating, refrigeration and air conditioning technology, and solar energy.

FT; AA/AS; CSU.

AIRE 133 Advanced Refrigeration & AC Lab

2 hours lab; 2 units

Grading: Letter Grade Only

Corequisite: AIRE 132

This course is a rigorous series of projects encompassing the operation and servicing of heating, ventilation, air conditioning and refrigeration (HVACR) systems. Projects include taking pressure, temperature and airflow readings on normal and malfunctioning systems, thermodynamic analyses using Mollier diagrams, troubleshooting, diagnosis and repair. Tasks involve the use of various refrigerants and secondary control devices such as pressure regulators and head pressure controls and the use of modern industry-standard tools and test equipment. This course is intended for students interested in heating, refrigeration and air conditioning technology, and solar energy.

FT; AA/AS; CSU.

AIRE 138 HVAC System Design

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Corequisite: AIRE 139

Advisory: AIRE 100 with a Grade of "C" or better, or equivalent and AIRE 126 with a Grade of "C" or better, or equivalent and AIRE 128 with a Grade of "C" or better, or equivalent and AIRE 132 with a Grade of "C" or better, or equivalent

This course is a rigorous study in the design of Heating, Ventilation and Air Conditioning (HVAC) systems for buildings. Course topics include, building envelope, heating and cooling load calculations, vapor-compression system selection and optimization, hydronic system design applications, and conservation techniques. This course is intended for students pursuing certificates or an associate degree in Air Conditioning, Heating and Solar Energy.

FT; AA/AS; CSU.

AIRE 139 HVAC System Design Lab

2 hours lab; 2 units

Grading: Letter Grade Only

Corequisite: AIRE 138

Advisory: AIRE 100 with a Grade of "C" or better, or equivalent and AIRE 127 with a Grade of "C" or better, or equivalent and AIRE 129 with a Grade of "C" or better, or equivalent and AIRE 133 with a Grade of "C" or better, or equivalent

This course employs design techniques for the development of commercial Heating, Ventilation, and Air Conditioning (HVAC) systems. Projects include a series of applied building heating and cooling load calculations, applied psychometrics; system and equipment selection with the use of design manuals, tables, and manufacturers catalogs. Applied energy conservation techniques are included. This course is intended for students pursuing certificates or an associate degree in Air Conditioning, Heating and Solar Energy.

FT; AA/AS; CSU.

AIRE 144 Direct Digital Controls Theory

64-72 hours lecture; 4 units

Grading: Letter Grade Only

Corequisite: AIRE 145

Advisory: AIRE 100 with a Grade of "C" or better, or equivalent and AIRE 124 with a Grade of "C" or better, or equivalent and AIRE 132 with a Grade of "C" or better, or equivalent

This course is a study of Direct Digital Control (DDC) theory: rationale, DDC system design, DDC system sensors, DDC controllers and advanced heating, ventilation and air conditioning (HVAC) controls, network architecture, Internet protocol (IP) addressing and interoperation, open and non-proprietary systems, American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) BACnet, and the LonWorks platform. The course examines BACnet DDC hybrid control strategies using various analog and binary system actuators. Specific emphasis is placed on developing student skills using networks that are built into the AIRE Program DDC lab equipment and utilized throughout the world. This course is intended for students in the air conditioning, heating and refrigeration technology program and professionals who want to update their skills.

FT; AA/AS; CSU.

AIRE 145 Direct Digital Controls Lab

2 hours lab; 2 units

Grading: Letter Grade Only

Corequisite: AIRE 144

Advisory: AIRE 125 with a Grade of "C" or better, or equivalent

This course applies Direct Digital Control (DDC) theory to laboratory projects: system design, American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) BACnet DDC controller selection and integration with heating, ventilation and air conditioning (HVAC) system components, BACnet network architecture, development of graphical views and hierarchical database tree, logical BACnet program development, and construction of DDC system operator machine interface graphics. Course projects include the development of a facility graphical view and control hierarchy tree, setup of a control logic diagram using blocks, symbols and wires, and construction of an operator graphical interface. Laboratory training simulations are compared to actual DDC HVAC control strategies used throughout the world. This course is intended for students in the air conditioning, heating and refrigeration technology program and professionals who want to update their skills.

FT; AA/AS; CSU.

AIRE 160 Solar Energy Utilization Theory

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Corequisite: AIRE 161

Advisory: AIRE 100 with a Grade of "C" or better, or equivalent and AIRE 124 with a Grade of "C" or better, or equivalent

This course studies solar-thermal and photovoltaic (PV) systems, siting considerations, types of collectors and systems, operating efficiencies, building codes and solar rights. Topics include: passive and active solar thermal systems; residential and commercial systems for water heating, space heating, space cooling, process heating, swimming pool heating, and hybrid systems. Study of photovoltaic technologies includes the solar cell, independent, grid-connected, hybrid systems and electric bill reduction strategies. This course is intended for students interested in solar energy.

FT; AA/AS; CSU.

AIRE 161 Solar Energy Utilization Lab

2 hours lab; 2 units

Grading: Letter Grade Only

Corequisite: AIRE 160

Advisory: AIRE 100 with a Grade of "C" or better, or equivalent and AIRE 125 with a Grade of "C" or better, or equivalent

This course includes a series of solar thermal and photovoltaic (PV) laboratory projects. Solar collector and system performance data are recorded and analyzed and efficiencies calculated. Topics include collector/module azimuth and tilt, thermal open and closed loop systems, freeze protection, stagnation; stand-alone, grid-connected and hybrid photovoltaic systems are studied. This course is intended for students interested in solar technology.

FT; AA/AS; CSU.

AIRE 270 Work Experience in Air Conditioning, Refrigeration, Environmental Control Technology

1-4 hours other; 1-4 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for ENVT 270

Obtain Permission Number-Work Exp. Coordinator

A program of on-the-job learning experience for students employed in a job related to their major or their educational goal. One unit of credit may be earned for every 54 hours of work experience. A maximum of fourteen credit hours for all work experience subject areas may be earned during one enrollment period.

AIRE 290 Independent Study in Air Conditioning, Refrigeration, Environmental Control Technology

1-3 hours other; 1-3 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for ENVT 290

Obtain Permission Number from Instructor

For students who wish to study special problems.

AMSL-American Sign Language/Interpreting

AMSL 120 American Sign Language Level I

80-90 hours lecture; 5 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for AMSL 100 or AMSL 115. This is an entry-level course designed to introduce students to American Sign Language (ASL) and Fingerspelled Signs as they are used within Deaf Culture. Students are taught to use ASL by signing, fingerspelled signing, and using facial grammar at the novice level. Emphasis is placed on the development of ASL expressive and receptive skills via applying their ASL skills through individualized program, small groups and large group environment. Students utilize interactive media to express their comprehension of basic ASL sentences and stories as well as their signing skills. Students have the opportunity to practice vocabulary and syntax. The course is designed for students who want to explore the basic language structure of ASL and Deaf Culture.

FT; AA/AS; CSU; UC. **Limitation: Corresponds to two years of high school study.** Limitation: Corresponds to two years of high school study.

AMSL 121 American Sign Language Level II

80-90 hours lecture; 5 units

Grading: Letter Grade Only

Prerequisite: AMSL 120 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for AMSL 101 or AMSL 116. This course is a continuation of the study of American Sign Language (ASL) at the beginning intermediate level. Emphasis is placed on increasing development of students' receptive and expressive skills through ASL vocabulary, fingerspelled signs and knowledge of Deaf Culture. Instruction includes a natural approach to teaching a second language by exposing students to authentic conversations in the classroom. Active learning provides students with the opportunity to apply their ASL skills through an individualized program, small groups and large group environment. Students utilize interactive media to express their comprehension of basic to intermediate ASL sentences and stories as well as to hone their signing skills. Activities are designed to provide students the opportunity to practice vocabulary and syntax at the intermediate level. This course is designed for students and/or professionals interested in working and interacting with Deaf people.

FT; AA/AS; CSU; UC.

AMSL 150 Introduction to Deaf Culture

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for AMSL 104

This course is an introduction to the unique aspects of Deaf Culture and Deaf community. Emphasis is placed on in-depth discussion of the beliefs and customs of this sociolinguistic/cultural minority in relation to language use and history of Deaf people in the United States of America. This course is intended for students who are interested in learning about Deaf Culture and the Deaf community.

FT; AA/AS; CSU; UC.

AMSL 155 Implications of Deafness

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for AMSL 105

This course is a study of the audiological, educational, social, and communicative aspects of people who are deaf and hearing impaired. Emphasis is placed on historical perspectives and current trends, philosophies, and ideologies related to deafness. This course is intended for students who are interested in learning about the pathological aspects of deaf and hearing impaired people.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

AMSL 214 American Sign Language Fingerspelled Signs

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: AMSL 121 with a Grade of "C" or better, or equivalent

This course is an intermediate-advanced study of American Sign Language Fingerspelled Signs and Numbering systems. Emphasis is placed on Native Fingerspelled Signs. Students participate in extensive drills expressively and receptively. This course is intended for American Sign Language (ASL) Studies and ASL-English Interpretation majors pursuing employment or a career in ASL and/or Deaf related fields.

FT; AA/AS; CSU.

AMSL 220 American Sign Language Level III**80-90 hours lecture; 5 units****Grading:** Letter Grade Only**Prerequisite:** AMSL 121 with a Grade of "C" or better, or equivalent**Advisory:** AMSL 214 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for AMSL 200 or AMSL 215. This third course in American Sign Language (ASL) is designed to enhance students' receptive and expressive skills at an advanced intermediate level. Emphasis is placed on the ASL syntax, facial grammar, vocabulary, and fingerspelling skills that enable students to participate in increasingly more complex conversations with Deaf community members. Instruction utilizes a natural approach to teaching a second language by engaging students in authentic conversations within the classroom environment. Conversational content seeks to develop student knowledge and understanding of the Deaf community and its art and history. Active learning provides students with the opportunity to apply their ASL skills through an individualized program. Students utilize interactive media to express their comprehension of intermediate to advanced ASL sentences and narratives as well as to hone their signing skills. Activities are designed to provide students the opportunity to practice vocabulary and syntax at the intermediate to advanced level. This course is designed for students and/or professionals interested in working and interacting with Deaf people.

FT; AA/AS; CSU; UC.**AMSL 221 American Sign Language Level IV****80-90 hours lecture; 5 units****Grading:** Letter Grade Only**Prerequisite:** AMSL 214 with a Grade of "C" or better, or equivalent and AMSL 220 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for AMSL 216. This fourth course in the study of American Sign Language (ASL) continues to build upon students' receptive and expressive skills at the advanced level while expanding their knowledge of Deaf Culture and the influences of other sign language systems. Emphasis is placed on advanced ASL Fingerspelled Signs, ASL structure and vocabulary. Instruction utilizes a natural approach to teaching a second language by engaging students in authentic conversations within the classroom environment. Active learning provides students with the opportunity to apply their American Sign Language (ASL) skills through an individualized program. Students utilize interactive media to express their comprehension of advanced ASL sentences and narratives as well as to hone their signing skills. Activities are designed to provide students the opportunity to practice vocabulary and syntax at the advanced level. This course is designed for students and/or professionals interested in working and/or interacting with Deaf people.

FT; AA/AS; CSU; UC.**AMSL 225 Introduction to Linguistics of American Sign Language****48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Corequisite: Completion of or concurrent enrollment**

in: AMSL 221 with a Grade of "C" or better, or equivalent. This course is designed to provide students with an analysis of the symbolic and linguistic structure of American Sign Language (ASL) and English including other spoken languages, other sign languages, and other related sign systems. Topics include phonology, morphology, syntax, semantics, pragmatics, grammar and discourse. This course examines the bilingual and bicultural practices, language acquisition, sociolinguistics and related research. This course is intended for students who plan to transfer and/or are interested in learning about the linguistic aspects of American Sign Language.

FT; AA/AS; CSU.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

AMSL 290 Independent Study in American Sign Language

1-3 hours other; 1-3 units

Grading: Letter Grade or Pass/No Pass

This course is for students who wish to conduct additional research, a special project, or learning activities in the field of American Sign Language. It is not intended to replace an existing course in the discipline. In this course students have a written contract with their instructor for activities such as: preparing problem analysis, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals.

FT; AA/AS; CSU.

ANTH-Anthropology

ANTH 102 Introduction to Biological Anthropology

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a survey of human evolution, variation, and adaptation. Topics include the study of primates, human heredity, variability of modern populations, and fossil records of early hominins and hominoids. This course is intended for anthropology majors and all students interested in life and/or behavioral sciences.

FT; AA/AS; CSU; UC; C-ID: ANTH 110.

ANTH 103 Introduction to Cultural Anthropology

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a survey of cultural anthropology using a comparative, cross-cultural approach. Emphasis is placed on the study of how various peoples around the world have adapted to their environments and developed behaviors to meet their biological, economic, psychological, social and political needs. This course is intended for anthropology majors and all students interested in life and/or behavioral sciences.

FT; AA/AS; CSU; UC; C-ID: ANTH 120.

ANTH 104 Laboratory in Biological Anthropology

1 hour lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Corequisite: Completion of or concurrent enrollment

in: ANTH 102 with a Grade of "C" or better, or equivalent

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a practical study of biological anthropology. Students perform field and laboratory studies in genetics, human variation, human osteology, anthropometry, hominid/hominin evolution, comparative primate anatomy, primate behavior, and forensic anthropology. This course is intended for anthropology majors and all students interested in life and/or behavioral sciences.

FT; AA/AS; CSU; UC.

ANTH 106 World Prehistory

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course covers the development of human society from the earliest evidence of culture to the beginnings of recorded history. Prehistoric archaeological concepts, methods, and data are used to examine the major transitions in human prehistory, including the origins of culture, agriculture, and early civilization. This course is intended for anthropology majors or anyone interested in world prehistory.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

ANTH 107 Introduction to Archaeology

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is an introductory study of the history, methods, and theory of archaeology. Emphasis is placed on the techniques of archaeological data collection and analysis; cultural innovations, reconstruction, and interpretation of the past; and Cultural Resource Management (CRM) work. This course is intended for students planning to major in anthropology and/or continue the study of archaeology at a university.

FT; AA/AS; CSU; UC; C-ID: ANTH 150.

ANTH 110 Anthropology of Magic, Witchcraft, and Religion

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a survey of magic and religion as expressed through rituals, myths, and symbols in cross-cultural perspective. Emphasis is placed on the theoretical and methodological approaches to the study of magic, witchcraft, and religion. This course is intended for students majoring in anthropology and all other interested students.

FT; AA/AS; CSU; UC.

ANTH 115 Introduction to Archaeological Field Work

32-36 hours lecture/2 hours lab; 4 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ANTH 265: Introduction to Archaeological Field Work

This course is an introduction to the basic techniques of archaeological field work. Emphasis is placed on site survey, site layout, excavation, artifact identification, laboratory analysis and report writing. Topics also include use of compass and transit, Global Positioning Systems (GPS) and Geographic Information Systems (GIS). This course is designed for Anthropology and Archaeology majors as well as students interested in prehistoric and/or historic research.

FT; AA/AS; CSU.

ANTH 120 Archaeological Artifact Analysis

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a practical study of archaeological artifact analysis. Emphasis is placed on artifact typology and seriation methods used in the preparation of archaeological reports. Students learn the most current techniques for describing, classifying, cataloging and documenting archaeological materials. This course is designed for students majoring in anthropology with an emphasis in archaeology and for anyone interested in a career in the field of archaeology or employment in Cultural Resource Management (CRM).

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

ANTH 130 Bones: Human Osteology

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course focuses on the study of the human skeleton. Emphasis is placed on two main aspects: identification of recently deceased individuals in a legal context, and historic or prehistoric skeletal remains as a contribution to human history. This hands-on course includes information on bone biology, growth and development, variation, and reconstruction. Students identify all parts of the skeletal system, measure bones, and identify non-metric features and stress markers. This course is designed for Anthropology majors or students interested in biology or physical anthropology.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

ANTH 140 Primatology

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is an introduction to the study of non-human primates: prosimians; monkeys of the Americas; monkeys and apes of Africa, Asia and Europe. The course focuses on primate behavior and how it relates to the study of human biocultural evolution. Of special concern are the relationships and adaptations of primates to varied environments. The primates at the San Diego Zoo are an integral part of the course. Various observational and data collecting techniques are employed in zoo projects. This course is designed for anthropology majors and/or students interested in anthropology, biology, or zoology.

FT; AA/AS; CSU; UC.

ANTH 210 Introduction to the Indigenous People of California

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a comparative study of Indigenous Peoples who lived within the culture area known as California. Emphasis is placed on precontact cultures, the influence of European contact, and contemporary issues. This course is intended for anthropology students and anyone interested in the Indigenous Peoples of California.

FT; AA/AS; CSU; UC.

ANTH 290 Independent Study

1-3 hours other; 1-3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is for students who wish to conduct additional research, a special project, or learning activities in the field of anthropology. It is not intended to replace an existing course in the discipline. In this course students will have a written contract with their instructor for activities such as: preparing problem analysis, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals

FT; AA/AS; CSU.

AODS-Alcohol and Other Drug Studies

AODS 150 Introduction to Chemical Dependency

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a study of the basic concepts of chemical dependency. Emphasis is placed on an analyzing of chemical dependency from an interdisciplinary level and on examining the socio-cultural patterns of dependency. Individual student's potential as a chemical dependency counselor is addressed. Students beginning the Alcohol and Other Drug Studies program should start with this course. This course is also appropriate for all students interested in learning more about alcohol and other drug use, abuse and dependency.

FT; AA/AS; CSU.

AODS 153 Chemical Dependency Family Counseling Techniques

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

Advisory: Completion of or concurrent enrollment in: AODS 150 with a Grade of "C" or better, or equivalent and AODS 154 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for AODS 158

This course is a study of the theories and practices related to the family dynamics involved when a member has a substance use problem. Emphasis is placed on therapeutic techniques designed to facilitate effective intervention strategies for the family as a system and for individuals within that system. Topics include assessment, family role delineation, family rules, co-dependency, open and closed family systems, intervention techniques and treatment modalities. This course is intended for students in the Alcohol and Other Drug Studies program and all students interested in the family dynamics in chemical dependency.

FT; AA/AS; CSU; C-ID: ADS 180X.

AODS 154 Law, Ethics, and Skills in Alcohol and Other Drug Counseling

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

Advisory: Completion of or concurrent enrollment in: AODS 150 with a Grade of "C" or better, or equivalent
This course is a study of ethical and legal components of substance use treatment. Emphasis is placed on professional responsibility and patients' rights as they relate to various models of primary prevention and intervention. Topics include community needs and resources and the influence of the media on prevention and intervention. This course is intended for students in the Alcohol and Other Drug Studies program.

FT; AA/AS; CSU; C-ID: ADS 160X.

AODS 155 Culturally Informed Practices

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: AODS 150 with a Grade of "C" or better, or equivalent and ENGL 101 with a Grade of "C" or better, or equivalent

This course is an exploration of historical, cultural, social, political, economic, health, and environmental issues involved in intercultural interactions between client and provider during the counseling process. Emphasis is placed on special problems, issues, and concerns of modern living within specific population groups, specifically those populations traditionally marginalized by society. Topics include: social-psychological dynamics of diverse populations and characteristics – ethnicity/race, gender, age, economic, sexual orientation, and disability status – of these populations with respect to the incidence of substance use disorders, intervention needs, and responses to treatment. Ethnic and cultural differences are examined to begin development of intercultural awareness, cultural competency, and culturally relevant practices in order to effectively interact and communicate with these populations. This course is designed for students interested in the social sciences, those considering careers in counseling, teaching, social work, psychology, or nursing, or students majoring in alcohol and other drug studies.

FT; AA/AS; CSU.

AODS 156 Case Management in Alcohol and Other Drug Counseling

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: AODS 150 with a Grade of "C" or better, or equivalent

AODS 154 with a Grade of "C" or better, or equivalent
ENGL 101 with a Grade of "C" or better, or equivalent
This course is a study of the theory and practical application of case management skills and techniques in alcohol and other drug counseling. Emphasis is placed on preparing students to work effectively in substance use treatment. Topics include clinical evaluation, treatment planning, referral, service coordination, counseling, client and community education, documentation, and professional and ethical responsibilities for alcohol and other drug counselors. This course is intended for students in the Alcohol and Other Drug Studies program. The material presented in this course is clinical in nature and may not be suitable for the general population of students.

FT; AA/AS; CSU; C-ID: ADS 170X.

AODS 157 Pharmacology of Psychoactive Drugs**48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Advisory:** AODS 150 with a Grade of "C" or better, or equivalent

ENGL 101 with a Grade of "C" or better, or equivalent and

Limitation on Enrollment: This course is not open to students with previous credit for AODS 152

This course is a study of the neurochemical, physical and mental effects of commonly used addictive psychoactive substances on the human biological system. Emphasis is placed on the basic pharmacology of psychoactive drugs, the medical consequences of substance use disorders, and therapeutic approaches for managing chemical dependency. This course is intended for students majoring in Alcohol and Other Drug Studies and all students interested in the physiology and pharmacology of psychoactive drugs.

FT; AA/AS; CSU; C-ID: ADS 140X.**AODS 159 Co-Occurring Disorders in Alcohol and Other Drug Counseling****48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Advisory:** AODS 150 with a Grade of "C" or better, or equivalent

AODS 154 with a Grade of "C" or better, or equivalent

PSYC 101 with a Grade of "C" or better, or equivalent

ENGL 101 with a Grade of "C" or better, or equivalent

This course is a study of co-occurring disorders, a condition which occurs when a person has a substance use disorder and a separate psychiatric diagnosis or other mental health-related symptoms or problems. Students learn the definitions and terms related to co-occurring disorders and the principles that guide systems of care for persons with co-occurring disorders. Emphasis is placed on identifying the most current, evidence-based practices for treating co-occurring disorders and applying screening, assessment, referral, and treatment protocols for persons with co-occurring disorders who enter substance use treatment facilities. Students demonstrate the skills necessary to apply for California state certification as an alcohol and drug counselor as they relate to treating co-occurring disorders and familiarity with the terminology, diagnoses, and treatment conditions of the mental health field. This course is intended for students in the Alcohol and Other Drug Studies program. Note that material presented in this course is clinical in nature and may not be suitable for the general population of students.

FT; AA/AS; CSU; C-ID: ADS 190X.**AODS 160 Group Dynamics in Alcohol and Other Drug Counseling****48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Prerequisite:** AODS 150 with a Grade of "C" or better, or equivalent

AODS 154 with a Grade of "C" or better, or equivalent

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent**Advisory: Completion of or concurrent enrollment in:**

AODS 159 with a Grade of "C" or better, or equivalent

PSYC 161 with a Grade of "C" or better, or equivalent

This course is a study of the theory and application of group counseling approaches, methods and techniques related to substance use treatment. Emphasis is placed on the dynamics of small, interpersonal process group interaction. Students develop effective interpersonal communication skills and leadership skills from an interdisciplinary perspective. This course is intended for students in the Alcohol and Other Drug Studies program. Note that material presented in this course is clinical in nature and may not be suitable for the general population of students.

FT; AA/AS; CSU; C-ID: ADS 130X.**AODS 162 Internship Seminar: Alcohol and Other Drug Counseling****48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Prerequisite:** AODS 150 with a Grade of "C" or better, or equivalent

AODS 153 with a Grade of "C" or better, or equivalent

AODS 154 with a Grade of "C" or better, or equivalent

AODS 156 with a Grade of "C" or better, or equivalent

AODS 160 with a Grade of "C" or better, or equivalent

PSYC 161 with a Grade of "C" or better, or equivalent

Corequisite: AODS 164 or AODS 270**Advisory: Completion of or concurrent enrollment in:**

AODS 157 with a Grade of "C" or better, or equivalent

AODS 159 with a Grade of "C" or better, or equivalent

This course is a study of substance use treatment with an emphasis on developing the skills and abilities of the student-as-intern alcohol and drug counselor. Emphasis is placed on supporting students enrolled in the Alcohol and Other Drug Counseling internship or work experience in substance use treatment. Throughout this course, students engage in critical analysis of their strengths and weaknesses as interns and as potential professionals in the field. Students must be accepted for an internship at an approved substance abuse treatment facility in order to participate in this course. This course is intended only for students in their final semester of the Alcohol and Other Drug Studies Program.

FT; AA/AS; CSU; C-ID: ADS 210X.

AODS 164 Internship: Alcohol and Other Drug Counseling

5 hours other; 5 units

Grading: Letter Grade Only

Prerequisite: AODS 150 with a Grade of "C" or better, or equivalent

AODS 153 with a Grade of "C" or better, or equivalent

AODS 154 with a Grade of "C" or better, or equivalent

AODS 156 with a Grade of "C" or better, or equivalent

AODS 160 with a Grade of "C" or better, or equivalent

PSYC 161 with a Grade of "C" or better, or equivalent

Corequisite: AODS 162

Advisory: Completion of or concurrent enrollment in:

AODS 157 with a Grade of "C" or better, or equivalent

AODS 159 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for AODS 163

This course provides students with a hands-on learning experience via a directed field study resulting from the cooperative effort of a provider agency, the instructor, and the student. Emphasis is placed on enabling the student intern to learn and experience the work of an alcohol and other drug counseling professional while receiving college credit. Students must be accepted for an internship at an approved substance use treatment facility. This course is intended only for students in their final semester of the Alcohol and Other Drug Studies Program.

FT; AA/AS; CSU; C-ID: ADS 200.

AODS 270 Work Experience in Chemical Dependency

4 hours other; 4 units

Grading: Letter Grade Only

Prerequisite: AODS 156 with a Grade of "C" or better, or equivalent and AODS 160 with a Grade of "C" or better, or equivalent and PSYC 161 with a Grade of "C" or better, or equivalent

Corequisite: AODS 162

Advisory: AODS 153 with a Grade of "C" or better, or equivalent and AODS 157 with a Grade of "C" or better, or equivalent and PSYC 245 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Obtain Permission Number-Work Exp. Coordinator

This course provides students with a hands-on learning experience via the cooperative effort of the employer, the instructor and the student. Emphasis is placed on enabling the student who is employed or volunteering in chemical dependency work to receive college credit for achieving new, meaningful and measurable learning objectives related to as many interdisciplinary aspects of chemical dependency as possible. This course is intended for students only in their final semester of the Alcohol and Other Drug Studies Program. One unit of credit may be earned for every 54 hours of work experience. A maximum of fourteen credit hours for all work experience subject areas may be earned during one enrollment period.

FT; AA/AS; CSU.

ARAB-Arabic

ARAB 101 First Course in Arabic

80-90 hours lecture; 5 units

Grading: Letter Grade or Pass/No Pass

This course is an introduction to the sound and writing system of the Arabic language. The course also provides students with the basic structural and lexical knowledge to enable them to communicate orally and in writing in Arabic at a beginning level. Emphasis is placed on developing the students' ability to perform language functions in real-life situations through structured activities and grammatical exercises and on providing students with an overview of Arabic culture. This course is for all students interested in learning Arabic.

FT; AA/AS; CSU; UC.

ARAB 102 Second Course in Arabic

80-90 hours lecture; 5 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ARAB 101 with a Grade of "C" or better, or equivalent

This interactive course builds upon the structural and lexical base of the Arabic language to move students from a beginning to a beginning-intermediate communication level through the introduction of a variety of noun and verb forms including the present and past tenses. Emphasis is placed on developing the student's ability to perform language functions in real-life situations through structured activities and grammatical exercises and on providing students with an overview of Arabic history, customs and culture. This course is for students in their second semester of Arabic.

FT; AA/AS; CSU; UC.

ARAB 201A Third Course in Arabic

80-90 hours lecture; 5 units

Grading: Letter Grade Only

Prerequisite: ARAB 102 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ARAB 201

This course is an interactive study of Arabic at the intermediate level. Students use increasingly complex Arabic language structures and vocabulary to listen, speak, read and write at the intermediate level. This course is designed for all students interested in the Arabic language.

FT; AA/AS; CSU; UC.

ARTF-Art-Fine Art

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

ARTF 100 Art Orientation

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a survey of the visual arts. Emphasis is placed on the various aesthetic approaches, philosophies, and artistic orientations around the world in historical and contemporary perspective. This course is intended for humanities majors and all students interested in art and/or art history.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

ARTF 104 Artists and Designers Today

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is an overview of current artist and designer practices. Students gain insight into art, design, and craft fields such as painting, sculpture, graphic design, interior design, industrial design, furniture, fibers, ceramics, metalwork, and multimedia. This course is designed for students beginning the study of art and/or related disciplines.

FT; AA/AS; CSU.

ARTF 109 Modern Art

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ARTF 110 with a Grade of "C" or better, or equivalent and ARTF 111 with a Grade of "C" or better, or equivalent and ENGL 101 with a Grade of "C" or better, or equivalent

This course provides a survey of modern art and architecture examining theoretical and cultural influences on art from the 19th century to mid 20th century. The course is designed for students interested in modern art history, as well as for art majors who are focusing on modern design, painting, sculpture or ceramics.

FT; AA/AS; CSU; UC.

ARTF 110 Art History: Prehistoric to Gothic

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a survey of the visual arts in western civilization from prehistory through the Gothic period. Emphasis is placed on representative art and architecture from Mesopotamia, Iran, Egypt, the Aegean, Etruscan, Rome and Greece. This course is intended for art majors and all students interested in art history, the humanities and culture.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

ARTF 111 Art History: Renaissance to Modern
48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a survey of the visual arts in western civilization from the Renaissance to the Modern era. Emphasis is placed on representative art and architecture from the Renaissance, Mannerism, Baroque, Rococo, Neo-Classicism, Romanticism, Impressionism, Post-Impressionism, and Modernism eras. This course is intended for art majors and all students interested in art history, the humanities, and culture.

FT; AA/AS; CSU; UC; C-ID: ARTH 120.

ARTF 115 African Art

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a survey of the history of African art. Emphasis is placed on the distinct history, cultural aesthetics, styles and iconography of various African cultures from prehistoric times to present day. This course is designed for all students interested in art, art history and the humanities.

FT; AA/AS; CSU; UC.

ARTF 125 Art History: Arts of the Asian Continent
48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course provides a survey of paintings, sculpture, architecture, and associated fine arts from India, China, Japan, Korea, Southeast Asia, and other countries throughout the Asian continent. It emphasizes the social, religious, and political highlights of each culture and their effects on art forms from prehistoric to modern times. This course is designed not only for art students, but also for those who are interested in history, religion, philosophy, humanities, and cultural enrichment.

FT; AA/AS; CSU; UC; C-ID: ARTH 130.

ARTF 150A Two-Dimensional Design

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is an introduction to two-dimensional space and form. Emphasis is placed on ways of organizing visual space into vivid and coherent images. This course is designed for students beginning a study of art and/or related disciplines.

FT; AA/AS; CSU; UC; C-ID: ARTS 100.

ARTF 151 Three-Dimensional Design

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

Advisory: Completion of or concurrent enrollment in: ARTF 150A with a Grade of "C" or better, or equivalent
This course is an introduction to three-dimensional space and form. Emphasis is placed on organizing visual space into valid and coherent structures. This course is designed for students beginning the study of art and/or related disciplines.

FT; AA/AS; CSU; UC; C-ID: ARTS 101.

ARTF 155A Freehand Drawing I

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This is an introductory course designed to develop the student's ability to perceive and translate visual relationships from 3-dimensional (3-D) space into 2-dimensional (2-D) drawings. Emphasis is placed on the use of art theory, basic art elements and compositional strategies to create pictorial space and compose original images based on observation. This course is intended for art majors and all students interested in learning freehand drawing whether or not they have previous art experience.

FT; AA/AS; CSU; UC; C-ID: ARTS 110.

ARTF 155B Freehand Drawing II

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ARTF 155A with a Grade of "C" or better, or equivalent

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is an intermediate course in which students apply art principles and theory to create solutions to particular problems of graphic representation and expression. Emphasis is placed on visual analysis and inquiry in creating pictorial space and applying drawing media. Students are introduced to the use of interdisciplinary art forms and image making and explore New Genres as a means of continued intellectual and artistic development. This course is intended for art and graphic art students.

FT; AA/AS; CSU; UC; C-ID: ARTS 205.

ARTF 156A Drawing for Animation

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is an introduction to drawing and design for animation. Emphasis is placed on the principles of motion, storytelling and conceptual development. This course is designed for students beginning the study of art and/or related disciplines.

FT; AA/AS; CSU.

ARTF 165A Composition in Painting I

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ARTF 155A with a Grade of "C" or better, or equivalent

Advisory: ARTF 150A with a Grade of "C" or better, or equivalent

ARTF 152 with a Grade of "C" or better, or equivalent
ENGL 101 with a Grade of "C" or better, or equivalent
This course is an introduction to oil and acrylic painting methods and techniques. Emphasis is placed on composition, color, and application of general design principles. A variety of subject matter, such as still-life, landscape, portrait and non-objective subjects, and a variety of stylistic approaches such as cubism, collage, realism and expressionism are explored. This course is designed to develop students' creative abilities and critical thinking in visual terms. This course is intended for students majoring in Art and those who wish to improve their artistic skills.

FT; AA/AS; CSU; UC; C-ID: ARTS 210.

ARTF 165B Composition in Painting II

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ARTF 165A with a Grade of "C" or better, or equivalent

This course is the second semester of introduction to oil and acrylic painting methods and techniques. Emphasis is placed on the concepts of pictorial space, composition, and color. The course is designed to further develop students' creative abilities and critical thinking through the construction of images designed to address specific pictorial problems and goals. This course is intended for students majoring in Art and those who wish to improve their artistic skills.

FT; AA/AS; CSU; UC.

ARTF 165C Composition in Painting III

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ARTF 165B with a Grade of "C" or better, or equivalent

This course is the third semester of introduction to oil and acrylic painting methods and techniques. Emphasis is placed on composition, color, and application of general design principles at a more advanced level of creativity and sophistication. This course is designed to develop students' creative abilities and critical thinking in visual terms through the use of individual assignments tailored to students' skills. This course is intended for students majoring in Art and those who wish to improve their artistic skills.

FT; AA/AS; CSU; UC.

ARTF 165D Composition in Painting IV

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ARTF 165C with a Grade of "C" or better, or equivalent

This course is the fourth and final semester of introduction to oil and acrylic painting methods and techniques. Emphasis is placed on contemporary methods and theories related to conceptualism and new genre. Students produce large format and mural scale paintings. This course is designed to develop students' creative abilities and critical thinking in visual terms through the use of individual assignments tailored to students' skills. This course is intended for students majoring in Art and those who wish to improve their artistic skills.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

ARTF 170A Contemporary Crafts I

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent and ARTF 150A with a Grade of "C" or better, or equivalent

This is a course exploring techniques, methods, and processes to produce a variety of crafts. Topics include developing projects using various media including ceramics, wood, fibers, glass, plastic, and metal. Students explore design principles, expressive quality, and individual ideas. This course is intended for students pursuing careers or future studies in studio arts, applied design, or industrial arts.

FT; AA/AS; CSU; C-ID: ARTS 280.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

ARTF 170B Contemporary Crafts II

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ARTF 170A with a Grade of "C" or better, or equivalent

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course continues the study of various crafts media at an intermediate level. Emphasis is placed on individual exploration and expression. This course is intended for students pursuing careers or future studies in Studio Art, Applied Design, or Industrial Design.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

ARTF 170C Contemporary Crafts III

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ARTF 170B with a Grade of "C" or better, or equivalent

This course continues the study of various crafts media at an advanced level. Emphasis is placed on structured development of media and preparation of work for public exhibition. This course is intended for students pursuing careers or future studies in Studio Art, Applied Design, or Industrial Design.

FT; AA/AS; CSU.

ARTF 174A Book Arts I

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ARTF 150A with a Grade of "C" or better, or equivalent or DSGN 100 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ARTG 174A

This is an introductory level book arts course. Emphasis is placed on the fundamental techniques and principles of constructing hand-made books. Topics include book arts terminology, materials, techniques, basic book structures, and worldwide books. Students develop content in the form of image and text for a hand-crafted book. This course is intended for graphic design students, fine art students, interaction design students, and anyone interested in the art and design of hand-crafted books.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

ARTF 175A Sculpture I

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ARTF 150A with a Grade of "C" or better, or equivalent

This course is an introduction to sculptural materials, processes, forms, contexts and content. Emphasis is placed on the basic forms and cultural functions of sculpture (past and present). Students produce sculptural artworks under direct guidance of the instructor. This course is intended for students majoring in art and for all students interested in producing three-dimensional art.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

ARTF 175B Sculpture II

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ARTF 175A with a Grade of "C" or better, or equivalent

This course is an intermediate level course in sculptural materials, processes, forms, context and content. Emphasis is placed on articulation of sculptural goals and experimentation with materials and methods. Students plan and produce sculptural artworks based on original concepts. This course is intended for art majors and for all students interested in working in three-dimensional art.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

ARTF 175C Sculpture III

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ARTF 175B with a Grade of "C" or better, or equivalent

This course is an advanced study in sculptural materials, processes, context and content. Emphasis is placed on the refinement of conceptual skills in their selection and pursuit of sculptural goals. Students experiment with advanced-level concepts and materials to create original sculptural artworks, including large scale pieces. This course is intended for art majors and for all students interested in working in three-dimensional art.

FT; AA/AS; CSU; UC.

ARTF 179A Figurative Ceramic Sculpture I

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is an introduction to ceramic figurative sculpture. Emphasis is placed on representational and expressive forms and learning various techniques of building with clay. This course is designed for students beginning the study of art and/or related disciplines.

FT; AA/AS; CSU.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

ARTF 195A Ceramics I

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This is an introductory ceramics course. Emphasis is placed on the design and construction of hand-built and wheel-thrown ceramic forms. This course is designed for art majors and all students interested in developing ceramic skills.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

ARTF 195B Ceramics II

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ARTF 195A with a Grade of "C" or better, or equivalent

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is an intermediate level ceramics course in which students design and construct wheel thrown and hand-built ceramic objects. Emphasis is placed on form and surface enrichment. This course is designed for art majors and for students interested in developing ceramic skills.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

ARTF 195C Ceramics III

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ARTF 195B with a Grade of "C" or better, or equivalent

This is an advanced-level ceramics course in which students design and construct wheel-thrown and handbuilt ceramic forms. Students select an area of focus emphasizing form and surface enrichment. Students develop, mix, and use clay and glazes, as well as load and fire both gas and electric kilns. This course is intended for art majors and all students interested in developing ceramics skills.

FT; AA/AS; CSU; UC.

ARTF 196 Clay and Glaze Technology

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ARTF 195A with a Grade of "C" or better, or equivalent

Advisory: ARTF 195B with a Grade of "C" or better, or equivalent

This course is a study of advanced techniques in clay and glaze formulation, mixing, and testing. Emphasis is placed on the physical and chemical nature of ceramic materials and how they affect glaze fired surface results. This course is intended for students majoring in art and anyone interested in ceramics.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

ARTF 197A Handbuilding Ceramics I
24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ARTF 195A with a Grade of "C" or better, or equivalent

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course provides instruction in the design and construction of handbuilt ceramic forms. Students create ceramic objects emphasizing form and surface enrichment, while gaining experience applying glazes and loading kilns. This course is designed for art majors and for students interested in developing ceramic skills.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

ARTF 197B Handbuilding Ceramics II
24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ARTF 197A with a Grade of "C" or better, or equivalent

This is an advanced level ceramics course in which students design and construct hand-built ceramic forms. Emphasis is placed on form and surface enrichment, weighing, mixing and use of glazes, and loading and firing electric kilns. This course is designed for art majors and for students interested in developing ceramic skills.

FT; AA/AS; CSU; UC.

ARTF 198A Introduction to Printmaking I
24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ARTF 150A with a Grade of "C" or better, or equivalent

ARTF 155A with a Grade of "C" or better, or equivalent
ENGL 101 with a Grade of "C" or better, or equivalent

This course is an introduction to the basic printmaking media of intaglio, relief, and monoprinting. Emphasis is placed on the techniques for creating and printing plates. Students investigate papers, select for properties, analyze aesthetic strategies for image making, and practice the principles of editioning and print conservation. This course is designed for art majors and all students interested in printmaking.

FT; AA/AS; CSU; UC.

ARTF 202A Public Art I

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ARTF 150A with a Grade of "C" or better, or equivalent and ARTF 151 with a Grade of "C" or better, or equivalent

Advisory: Completion of or concurrent enrollment in:

ENGL 101 with a Grade of "C" or better, or equivalent

This is the first in a series of courses in public art. This course explores the study and practice of art for public spaces. Topics include historical and contemporary examples of public art as well as constructing a series of maquettes. Emphasis is placed on identifying projects, planning a piece, and creating proposals for submission. This course is intended for art majors and those interested in the study and creation of art in the public sphere.

FT; AA/AS; CSU.

ARTF 202B Public Art II

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ARTF 202A with a Grade of "C" or better, or equivalent

This is the second in a series of courses in public art. This course explores the study and practice of art for public spaces. Topics include a deeper analysis of public art in a historical and contemporary context as well as the multi-layered processes of constructing a public art piece. Emphasis is placed on appropriate business procedures, the submission process, and the construction of a public art piece. This course is intended for art majors and those interested in the study and creation of art in the public sphere.

FT; AA/AS; CSU.

ARTF 205A Installation, Performance, and New Genres

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ARTF 175A with a Grade of "C" or better, or equivalent

This course is an introduction to concept-based New Genres art practices. Emphasis is placed on the intersection of form/medium and concept as well as on the role of art in contemporary culture. Students develop concepts based on issues related to social commentary, political action, institutional critique, community involvement, and personal identity and experiment with forms, such as installation, performance, technological, hybrid, and emerging art forms. This course is designed for art majors and anyone interested in contemporary art practices.

FT; AA/AS; CSU; UC.

ARTF 206 Art Entrepreneurship**48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This course is an overview of current business and marketing practices related to being an artist. Students gain promotional and presentation skills and develop a business plan. This course is intended for students interested in art and creating a small art business.

FT; AA/AS; CSU.**ARTF 207A Industrial and Architectural Ceramic Design I****24-27 hours lecture/1.5 hours lab; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent and ARTF 150A with a Grade of "C" or better, or equivalent and ARTF 195A with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for ARTF 207

This course is the first course in a sequence of contemporary industrial and architectural ceramic design. Emphasis is placed on creating beginning-level multiples in production and architectural ceramics. Student produce designs suitable for basic mold making and casting to produce multiples. This course is designed for students interested in industrial design, public arts, and creating a small business.

FT; AA/AS; CSU.**ARTF 207B Industrial and Architectural Ceramic Design II****24-27 hours lecture/1.5 hours lab; 3 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** ARTF 207A with a Grade of "C" or better, or equivalent**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This course is the second course in a sequence of contemporary industrial and architectural ceramic design. Students produce designs suitable for more complex mold making and casting to produce multiples. Students also create architectural designs for installation, connect multiple parts from molds, and design using multi-piece molds. This course is designed for students interested in industrial design, public arts, and creating a small business.

FT; AA/AS; CSU.**ARTF 208A Ceramic Production I****24-27 hours lecture/1.5 hours lab; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ARTF 195A with a Grade of "C" or better, or equivalent or ARTF 195B with a Grade of "C" or better, or equivalent or ARTF 195C with a Grade of "C" or better, or equivalent

This is the first in a series of courses in the art of ceramic production. This course explores the study and practice of art for ceramic production. Topics include historical, contemporary, and utilitarian examples of ceramic production as well as constructing a sense of material use and business practices. Emphasis is placed on planning bodies of work, the creation of multiples, and marketing practices. This course is intended for art majors and those interested in the study and creation of utilitarian ceramic art and design.

FT; AA/AS; CSU.**ARTF 208B Ceramic Production II****24-27 hours lecture/1.5 hours lab; 3 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** ARTF 208A with a Grade of "C" or better, or equivalent**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This is the second in a series of courses in the art of ceramic production. This course explores the study and practice of art for ceramic production. Topics include a deeper analysis of historical, contemporary, and utilitarian examples of ceramic production as well as additional practice with materials, business management, industrial methods, and technical skills. Emphasis is placed on planning bodies of work, the creation of multiples, and understanding the business of material use and electrical energy. This course is intended for art majors and those interested in the study and creation of ceramic art in the production sphere.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

ARTF 210A Life Drawing I

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ARTF 155A with a Grade of "C" or better, or equivalent

Advisory: ARTF 150A with a Grade of "C" or better, or equivalent and ENGL 101 with a Grade of "C" or better, or equivalent

This is a basic course in drawing the human form as a sequence of studies from live models. Accurate and expressive translations of the mass as two-dimensional drawings are refined in a variety of achromatic media. This course is designed for students who are majoring in fine art and is also a relevant foundation for those that are interested in disciplines that use the human form, such as animation and fashion design.

FT; AA/AS; CSU; UC; C-ID: ARTS 200.

ARTF 210B Life Drawing II

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade Only

Prerequisite: ARTF 210A with a Grade of "C" or better, or equivalent

Advisory: ARTF 150A with a Grade of "C" or better, or equivalent and ENGL 101 with a Grade of "C" or better, or equivalent

This is an intermediate course in drawing the human form as a sequence of studies from live models. Students work with color and experiment with concepts related to figure drawing. This course is designed for students who are majoring in fine art and is also a relevant foundation for study in disciplines that use the human form, such as animation and fashion design.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

ARTF 210C Life Drawing III

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ARTF 210B with a Grade of "C" or better, or equivalent

This is an advanced course in drawing the human form as a sequence of studies from live models. Students work closely with the instructor to develop, create and present original artwork. This course is designed for students who are majoring in fine art.

FT; AA/AS; CSU; UC.

ARTF 212 Sustainable Art and Design

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course provides a survey of sustainable art and design examining its effects on policies, culture, and practices from the late 20th century to the present. Topics include social justice and engagement, ecological and environmental health restoration, regenerative practices, material ecology, and economic shifts. Emphasis is placed on compassionate awareness, climate optimism, cultural perspectives, and historical and contemporary practices. This course is intended for art, design, architecture, and engineering majors.

FT; AA/AS; CSU; UC.

ARTF 260 Studio Art Studies

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ARTF 155B with a Grade of "C" or better, or equivalent or ARTF 165D with a Grade of "C" or better, or equivalent or ARTF 175C with a Grade of "C" or better, or equivalent or ARTF 197B with a Grade of "C" or better, or equivalent or ARTF 198C with a Grade of "C" or better, or equivalent or ARTF 200 with a Grade of "C" or better, or equivalent or ARTF 232 with a Grade of "C" or better, or equivalent

This course is intended for advanced art students. Students enrolled in this course work closely with the instructor to develop a transfer portfolio, artist statement, curatorial concept and/or resume exhibition list.

FT; AA/AS; CSU.

ARTF 270 Work Experience

1-4 hours other; 1-4 units

Grading: Letter Grade Only

Limitation on Enrollment: Obtain Permission Number-Work Exp. Coordinator

This course provides on-the-job learning experiences for students employed in an art-related job or internship. Students develop workplace competencies, critical thinking skills, and problem solving abilities through the creation and achievement of job-related behavioral learning objectives. This course may be taken up to four times. One unit of credit may be earned for every 54 hours of work experience. A maximum of fourteen credit hours for all work experience subject areas may be earned during one enrollment period. This course is intended for students majoring or interested in the field of fine art.

FT; AA/AS; CSU.

ARTF 280A 2-Dimensional Art Studio Lab

1 hour lab; 1 unit

Grading: Pass/No Pass Only

Corequisite: ARTF 150A or ARTF 152 or ARTF 155A or ARTF 155B or ARTF 165A or ARTF 165B or ARTF 165C or ARTF 165D or ARTF 174A or ARTF 198A or ARTF 198B or ARTF 198C or ARTF 210A or ARTF 210B or ARTF 210C

This course is a supervised studio laboratory in 2-dimensional media. Emphasis is placed on technical refinement of personal drawing and painting skills. This course is designed for fine art majors.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

ARTF 280B 3-Dimensional Art Studio Lab

1 hour lab; 1 unit

Grading: Pass/No Pass Only

Corequisite: ARTF 151 or ARTF 175A or ARTF 205A or ARTF 220A or ARTF 220B or ARTF 220C

This course is a supervised studio laboratory in 3-dimensional media. Emphasis is placed on technical refinement of fabrication skills specific to the various media explorations presented in the accompanying courses. This course is designed for fine art majors.

ARTF 280C Ceramics Studio Lab

1 hour lab; 1 unit

Grading: Pass/No Pass Only

Corequisite: ARTF 195A or ARTF 195B or ARTF 197A or ARTF 197B

This course is a supervised studio laboratory in ceramics. Emphasis is placed on technical refinement of personal ceramic skills. This course is designed for fine arts majors. Students must demonstrate increased proficiency with each repetition.

ARTF 290 Independent Study

1-3 hours other; 1-3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is designed for students who wish to conduct additional research, a special project, or learning activities in the field of art/fine art. It is not intended to replace an existing course in the discipline. In this course students have a written contract with their instructor for activities such as: preparing problem analyses, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals.

FT; AA/AS; CSU; UC.

ARTG-Art-Graphic Design

ASTR-Astronomy

ASTR 101 Descriptive Astronomy

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

This course is an introductory survey of contemporary astronomy. Topics covered include the solar system, stars and stellar evolution, the Milky Way galaxy and cosmology. This course is intended for students with a general interest in astronomy.

FT; AA/AS; CSU; UC.

ASTR 102 Exploring The Solar System And Life Beyond The Earth

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

This course investigates the origin of our Solar System and how its contents changed with time. Analysis of the physical properties of planets, moons, rings, comets, asteroids are explored. This course surveys the history of space exploration and recent discoveries of exoplanets. Additionally, it explores potential for life elsewhere in Solar System and beyond. Challenges of space travel are also examined. This course is designed for students interested in exploring Astronomy.

FT; AA/AS; CSU; UC.

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ASTR 109 Practice in Observing

1 hour lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Corequisite: Completion of or concurrent enrollment

in: ASTR 101 with a Grade of "C" or better, or equivalent or ASTR 102 with a Grade of "C" or better, or equivalent

This is a laboratory field experience course in general astronomy. Emphasis is placed on the constellations, celestial cycle interpretation, and descriptive observations of astronomical objects and events with and without the use of telescopes. This course is for all students interested in field experience in general astronomy.

FT; AA/AS; CSU; UC.

ASTR 111 Astronomy Laboratory

1 hour lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Corequisite: Completion of or concurrent enrollment

in: ASTR 101 with a Grade of "C" or better, or equivalent or ASTR 102 with a Grade of "C" or better, or equivalent

This laboratory course features exercises and experiments covering the range of topics in astronomy. The course deals with the foundations of astronomy, and may include telescopes, planetary astronomy, stellar astronomy and galactic astronomy. Indoor exercises may involve computer simulations. Outdoor exercises may be required. This course is designed for students interested in astronomy.

FT; AA/AS; CSU; UC.

ASTR 290 Independent Study

1-3 hours other; 1-3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is for students who wish to conduct additional research, a special project, or learning activities in the field of astronomy. It is not intended to replace an existing course in the discipline. In this course students will have a written contract with their instructor for activities such as: preparing problem analyses, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals.

BCAS-Black Contractor's Association Studies

BCAS 80 Construction Safety

56-63 hours lecture; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for BCAS 300

This course reviews procedures and applications of general construction safety. Emphasis is placed on identifying basic project procedures, and applying procedural knowledge and performance standards to construction safety regulations. This course is intended for students interested in the construction trade.

FT; AA/AS.

BCAS 81 Construction Mathematics I

56-63 hours lecture; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for BCAS 302

The course provides students with a basic comprehension of mathematical functions, as they relate to the construction trade. Emphasis is placed on performing addition, subtraction, multiplication and division calculations involving whole numbers, fractions, decimals, percentages, and conversion of fractions and decimals from one type of unit to the other. This course is intended for students interested in the construction trade.

FT; AA/AS.

BCAS 82 Construction Mathematics II**56-63 hours lecture; 3 units****Grading:** Letter Grade Only**Prerequisite:** BCAS 81 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for BCAS 303
The course provides students with application of advanced mathematical functions. Emphasis is placed on applying advanced construction mathematical computations including standard units of measure, conversion of measurement from one type of unit to another (US Standard/Metric), and calculations of squares and square roots used in layouts, as they relate to building construction. This course is intended for students interested in the construction trade.**FT; AA/AS.****BCAS 83 Construction Blueprint Reading I****56-63 hours lecture; 3 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for BCAS 307

The course provides students with basic project procedure, and applications on different types of basic blueprints. Emphasis is placed on developing a working knowledge of construction principles, basic blueprint reading, and related trade mathematics. This course is intended for students interested in the construction trade.

FT; AA/AS.**BCAS 84 Construction Blueprint Reading II****56-63 hours lecture; 3 units****Grading:** Letter Grade Only**Prerequisite:** BCAS 83 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for BCAS 308
The course provides students with advanced reading of construction blueprints and specifications for commercial and industrial construction. Emphasis is placed on analyzing measurements, blueprint symbolism and building material specifications relating to construction. This course is intended for students interested in the construction trade.**FT; AA/AS.****BCAS 85 Carpenter Apprentice I****56-63 hours lecture; 3 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for BCAS 310

This course is an introduction to the carpentry trade. Emphasis is placed on identifying and selecting lumber, and engineered lumber products and panels, choosing appropriate fasteners, and safely using all hand tools, portable power tools, and stationary power tools on the job site. This course is intended for students interested in the carpentry trade.

FT; AA/AS.**BCAS 86 Carpenter Apprentice II****56-63 hours lecture; 3 units****Grading:** Letter Grade Only**Prerequisite:** BCAS 85 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for BCAS 312

This is an intermediate carpentry course covering blueprints and building codes, building layout, and concrete form construction. Emphasis is placed on reading and interpreting blueprints and floor plans, understanding building codes, choosing appropriate layout tools, and building concrete forms. This course is intended for students interested in the carpentry trade.

FT; AA/AS.**BCAS 87 Carpenter Apprentice III****56-63 hours lecture; 3 units****Grading:** Letter Grade Only**Prerequisite:** BCAS 86 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for BCAS 314

This is a high-intermediate level carpentry course covering roof and stairway framing, insulation, windows, and exterior doors. Emphasis is placed on layout and framing common roof structures, interior stairs, correctly selecting and installing insulation and vapor barriers, and selecting and properly installing windows, exterior doors, and hardware. This course is intended for students interested in the carpentry trade.

FT; AA/AS.

BCAS 88 Carpenter Apprentice IV**56-63 hours lecture; 3 units****Grading:** Letter Grade Only**Prerequisite:** BCAS 87 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for BCAS 316
This is an advanced carpentry course covering exterior and interior finish work. Emphasis is placed on the description, layout, and installation of interior and exterior wall coverings, decks, doors, stairs, and flooring material. This course is intended for students interested in the carpentry trade.**FT; AA/AS.****BCAS 300 Construction Safety****56-63 hours lecture; 3 units****Grading:** Letter Grade Only**Limitation on Enrollment:** Apprenticeship - Student must be a state registered apprentice in this trade.

Obtain Permission Number from Instructor

This course is not open to students with previous credit for BCAS 080

This course reviews procedures and applications of general construction safety. Emphasis is placed on identifying basic project procedures, and applying procedural knowledge and performance standards to construction safety regulations. This course is intended for students enrolled in the construction apprentice program.

FT; AA/AS; CSU.**BCAS 302 Construction Mathematics I****56-63 hours lecture; 3 units****Grading:** Letter Grade Only**Limitation on Enrollment:** Apprenticeship - Student must be a state registered apprentice in this trade.

Obtain Permission Number from Instructor

This course is not open to students with previous credit for BCAS 081

The course provides apprentices with a basic comprehension of mathematical functions, as they relate to the construction trade. Emphasis is placed on performing addition, subtraction, multiplication and division calculations involving whole numbers, fractions, decimals, percentages, and conversion of fractions and decimals from one type of unit to the other. This course is intended for students enrolled in the construction apprentice program.

FT; AA/AS; CSU.**BCAS 303 Construction Mathematics II****56-63 hours lecture; 3 units****Grading:** Letter Grade Only**Prerequisite:** BCAS 302 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** Apprenticeship - Student must be a state registered apprentice in this trade.

Obtain Permission Number from Instructor

This course is not open to students with previous credit for BCAS 082

The course provides apprentices with application of advanced mathematical functions. Emphasis is placed on applying advanced construction mathematical computations including standard units of measure, conversion of measurement from one type of unit to another (US Standard/Metric), and calculations of squares and square roots used in layouts, as they relate to building construction. This course is intended for students enrolled in the construction apprentice program.

FT; AA/AS; CSU.**BCAS 307 Construction Blueprint Reading I****56-63 hours lecture; 3 units****Grading:** Letter Grade Only**Limitation on Enrollment:** Apprenticeship - Student must be a state registered apprentice in this trade.

Obtain Permission Number from Instructor

This course is not open to students with previous credit for BCAS 083

The course provides apprentices with basic project procedure, and applications on different types of basic blueprints. Emphasis is placed on demonstrating a working knowledge of construction principles, basic blueprint reading, and related trade mathematics. This course is intended for students enrolled in the construction apprentice program.

FT; AA/AS; CSU.

BCAS 308 Construction Blueprint Reading II

56-63 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: BCAS 307 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

Obtain Permission Number from Instructor

This course is not open to students with previous credit for BCAS 084

The course provides apprentices with advanced reading of construction blueprints and specifications for commercial and industrial construction. Emphasis is placed on analyzing measurements, blueprint symbolism and building material specifications relating to construction.

This course is intended for students enrolled in the construction apprentice program.

FT; AA/AS.

BCAS 310 Carpenter Apprentice I

56-63 hours lecture; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

Obtain Permission Number from Instructor

This course is not open to students with previous credit for BCAS 085

This course is an introduction to the carpentry trade. Emphasis is placed on identifying and selecting lumber, and engineered lumber products and panels, choosing appropriate fasteners, and safely using all hand tools, portable power tools, and stationary power tools on the job site. This course is intended for students enrolled in the carpenter apprentice program.

FT; AA/AS; CSU.

BCAS 312 Carpenter Apprentice II

56-63 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: BCAS 310 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

Obtain Permission Number from Instructor

This course is not open to students with previous credit for BCAS 086

This is an intermediate carpentry course covering blueprints and building codes, building layout, and concrete form construction. Emphasis is placed on reading and interpreting blueprints and floor plans, understanding building codes, choosing appropriate layout tools, and building concrete forms. This course is intended for students enrolled in the carpenter apprentice program.

FT; AA/AS; CSU.

BCAS 314 Carpenter Apprentice III

56-63 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: BCAS 312 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

Obtain Permission Number from Instructor

This course is not open to students with previous credit for BCAS 087

This is a high-intermediate level carpentry course covering roof and stairway framing, insulation, windows, and exterior doors. Emphasis is placed on layout and framing common roof structures, interior stairs, correctly selecting and installing insulation and vapor barriers, and selecting and properly installing windows, exterior doors, and hardware. This course is intended for students enrolled in the carpenter apprentice program.

FT; AA/AS; CSU.

BCAS 316 Carpenter Apprentice IV

56-63 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: BCAS 314 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

Obtain Permission Number from Instructor

This course is not open to students with previous credit for BCAS 088

This is an advanced carpentry course covering exterior and interior finish work. Emphasis is placed on the description, layout, and installation of interior and exterior wall coverings, decks, doors, stairs, and flooring material. This course is intended for students enrolled in the carpenter apprentice program.

FT; AA/AS; CSU.

BIOL-Biology

BIOL 48 Pre-biology and Study Skills **4-6 hours lecture/0.3 hours lab; 0.5 units**

Grading: Pass/No Pass Only

Limitation on Enrollment: This course is not open to students with previous credit for BIOL 107 or 210A. This course covers fundamental concepts and skills for success in introductory biology courses. Topics include language and terms for comprehending biology textbooks; mathematical concepts and units of measurement; chemistry concepts; the process of science; basic biologic themes; and effective habits of self-awareness and effective learning. This course is intended for students who plan to enroll in general or introductory biology and have not previously taken high school biology and/or chemistry; students who have previously taken biology and need to refresh and review basic concepts and skills; or students who have unsuccessfully attempted general or introductory biology and wish to review prior to re-enrolling.

FT.

BIOL 101 Issues in Environmental Science & Sustainability

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for BIOL 100. This is a course in contemporary issues in environmental science and sustainability. Topics include basic ecological principles; biological, chemical, and physical ecosystem dynamics; biodiversity; human population dynamics; human resource management; and pollution. These are viewed within the context of their environmental, economic, and social settings. Issues are examined utilizing the process of scientific inquiry. The laboratory is coordinated with lectures, and emphasizes the environmental issues of Southern California. This course is intended for students majoring in sustainability, business and peace studies, as well as all students interested in environmental science.

FT; AA/AS; CSU; UC.

BIOL 107 General Biology-Lecture and Laboratory **48-54 hours lecture/1 hour lab; 4 units**

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for BIOL 105 & 106, 210A, or 210B

This course is an examination of living organisms and their environment. The lecture and laboratory are intended for students in the Allied Health Track or students majoring in Education or related areas. Topics include the fundamental chemical and physical processes common to all living organisms, the interactions between organisms and their environment, classical and molecular genetics, metabolism, plant and animal anatomy and physiology, animal behavior, evolution, cellular and molecular biology, and the experimental and cognitive processes used to examine these fields.

FT; AA/AS; CSU; UC.

BIOL 111 Cancer Biology **48-54 hours lecture; 3 units**

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for BIOL 123.

This is an introductory course that examines the basic biology of cancer and the approaches currently taken in cancer treatment. Basic principles of cell biology and genetics are explored to unravel the mechanisms of cancer development and the development of effective cancer therapeutics and preventative measures. The course emphasizes the process of scientific inquiry to illustrate how cancer biologists gather and analyze data in order to better understand and treat this disease, estimated to be the number two killer in the US. The course is intended for all that want to learn about the types of cancer, causes of cancer, treatments of cancer, and the social impact of this disease on patients, families, and society.

FT; AA/AS; CSU; UC.

BIOL 130 Human Heredity**48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course introduces students to the concepts and applications of human heredity. It deals with both classical Mendelian genetics and modern molecular genetics. Topics include gamete formation, human karyotypes, genetic crosses, sex-linked inheritance, structure and function of DNA and RNA, gene expression, transcription and translation, genetic engineering, and population genetics. This course is designed for students interested in biology and human heredity.

FT; AA/AS; CSU; UC.**BIOL 161 Introduction to Research****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass

This course is designed for Science, Technology, Engineering, and Math (STEM) students participating in the STEM Pathways program. Emphasis is placed on selecting a research project, formulating questions and hypotheses, and designing appropriate experimental approaches. Topics include an introduction to experimental design, data analysis, and scientific communication.

FT; AA/AS; CSU.**BIOL 180 Plants and People****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This is an introductory course that examines the interdependence of humans and plants. This course is intended for all that want to learn about the uses of plants, especially those students with an interest in biology, anthropology, environmental sciences, and/or agriculture. Emphasis is on plant ecology as well as the basic biology of plant groups that provide us with food, medicine, recreation, decoration, and material goods, as well as those that produce stimulating, intoxicating, or harmful effects. Basic principles of taxonomy, cell structure, plant physiology, plant anatomy, ecology, and genetics are explored as they relate to these plants. Current environmental and economic issues and the role of molecular genetics in future plant development and the importance of genetic diversity are also examined.

FT; AA/AS; CSU; UC.**BIOL 205 General Microbiology****48-54 hours lecture/2 hours lab; 5 units****Grading:** Letter Grade Only**Prerequisite:** BIOL 107 with a Grade of "C" or better, or equivalent or BIOL 210A with a Grade of "C" or better, or equivalent

CHEM 100 with a Grade of "C" or better, or equivalent and CHEM 100L with a Grade of "C" or better, or equivalent or CHEM 103 with a Grade of "C" or better, or equivalent or CHEM 152 with a Grade of "C" or better, or equivalent and CHEM 152L with a Grade of "C" or better, or equivalent
This introductory course covers fundamental aspects of microbiology including taxonomy, structure, physiology, reproduction, genetics, control, immunology, diversity, and host-symbiont relationships. Lab work emphasizes basic techniques for culturing, staining, counting, and identifying microorganisms. This course is intended for students pursuing careers in allied health fields and may meet entry requirements for these allied health fields.

FT; AA/AS; CSU; UC.**BIOL 210A Introduction to the Biological Sciences I****48-54 hours lecture/1 hour lab; 4 units****Grading:** Letter Grade Only**Prerequisite:** CHEM 152 with a Grade of "C" or better, or equivalent and CHEM 152L with a Grade of "C" or better, or equivalent and Successful completion of Intermediate Algebra with a "C" or better or appropriate placement based on California title 5 regulations. All prerequisites must be completed within five years of enrollment in BIOL 210A.**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent**Advisory: Concurrent enrollment in:** CHEM 200 and CHEM 200L

This course covers biological chemistry, cell structure and function, cellular metabolism, classical and molecular genetics, and the molecular basis of evolutionary biology. This is the first semester of a two-semester sequence designed for biological science and pre-professional majors.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

BIOL 210B Introduction to the Biological Sciences II

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: BIOL 210A with a Grade of "C" or better, or equivalent

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course covers the three domains of life, including the phylogenetic relationships of major groups of organisms. Topics include adaptive radiation, anatomy, physiology, development, behavior, and ecology. This is the second semester of a two-semester sequence designed for biological science and pre-professional majors.

FT; AA/AS; CSU; UC; C-ID: BIOL 140.

BIOL 230 Human Anatomy

32-36 hours lecture/2 hours lab; 4 units

Grading: Letter Grade Only

Prerequisite: BIOL 107 with a Grade of "C" or better, or equivalent or BIOL 160 with a Grade of "C" or better, or equivalent or BIOL 210A with a Grade of "C" or better, or equivalent

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a systems approach to the study of human body structure from the microscopic level of organization to the gross level. Students relate body structures to their functions by studying histological slides and photomicrographs, anatomical models and charts, and mammalian dissection, which may include using prosected cadavers for studying and testing. This course is intended for students majoring in nursing, allied health (e.g. physical therapy, occupational therapy, chiropractic, etc.), psychology, athletic training, physical education, and biology, or those who wish to extend their knowledge of the human body beyond the scope of introductory biology.

FT; AA/AS; CSU; UC.

BIOL 231 Media Experiences in Human Anatomy

16-18 hours lecture; 1 unit

Grading: Pass/No Pass Only

Corequisite: BIOL 230

This course is self-paced study of anatomy through the use of computer software, microscope slides, anatomical models, and graphics. It is intended to meet the requirements of students in the fields of nursing, physical therapy, recreational therapy, occupational therapy, athletic training, chiropractic, psychology, physical education, and biology or those who wish to extend their knowledge of the human body beyond the scope of introductory biology.

BIOL 232 Experience in Human Dissection

1 hour lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Prerequisite: BIOL 230 with a Grade of "C" or better, or equivalent

Advisory: BIOL 230 completed within five years of enrollment in BIOL 232. Preregistration counseling with instructor is highly recommended

This course provides a supervised study and actual experience in human dissection. Topics include dissection techniques and human anatomy. This course is intended for students pursuing careers in nursing, medicine, and other allied health professions.

FT; AA/AS; CSU.

BIOL 235 Human Physiology

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: BIOL 107 with a Grade of "C" or better, or equivalent or BIOL 210A with a Grade of "C" or better, or equivalent

Advisory: BIOL 230 with a Grade of "C" or better, or equivalent

CHEM 100 with a Grade of "C" or better, or equivalent
CHEM 100L with a Grade of "C" or better, or equivalent

This course is an introductory study of human body functions. Emphasis is placed on the nervous, endocrine, muscular, cardiovascular, immune, digestive, respiratory, urinary and reproductive systems. The laboratory component focuses on investigating and applying the scientific method to the understanding the function of bodily systems. This course is intended for students majoring in nursing, allied health, psychology, biology and physical education.

FT; AA/AS; CSU; UC; C-ID: BIOL 120B.

BIOL 290 Independent Study

1-3 hours other; 1-3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is designed for students who wish to conduct additional research, a special project, or learning activities in the field of biology. It is not intended to replace an existing course in the discipline. In this course students have a written contract with their instructor for activities such as: preparing problem analyses, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals.

BLAS-Black Studies

BLAS 100 Introduction to Black Studies

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

This course is an overview of the Black Studies discipline including its social and academic origins, goals and development. Emphasis is placed on providing students with an understanding of the fundamental areas of study within the field and of the interdisciplinary approach to studying the African experience in America and the world. This course is intended for students majoring in Black Studies and Ethnic Studies; and all students interested in general knowledge of the Black experience.

BLAS 104 Black Psychology

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

This course is an introduction to psychological concepts and principles as they relate to African American behaviors, perspectives and lifestyles. Emphasis is placed on comparing Euro-American theories as they have been traditionally applied to African Americans with contemporary Afri-centric theories and the ways in which they may be applied to create a greater understanding of the behaviors, lifestyles and psychological needs of African Americans. This course is intended for students majoring Black Studies and students interested in the Ethnic Studies aspects of psychology.

FT; AA/AS; CSU; UC.

BLAS 110 African American Art

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

This course is a historical survey of African American art from 1650 to present, including the influence of African, European and Native American art styles and traditions. This course is intended for students majoring in Black Studies, Ethnic Studies and Art; and all students interested in history, humanities, teaching, travel, and cultural enrichment from the Black experience.

FT; AA/AS; CSU; UC.

BLAS 115 Sociology from a Black Perspective

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

This course is a study of African American society and culture. Emphasis is placed on analyzing the origins, nature, structure and dynamics of African American life from a systemic perspective.

FT; AA/AS; CSU; UC.

BLAS 116 Contemporary Social Problems from a Black Perspective

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

This course is a sociological analysis of institutional racism, the process of social change and how it affects African Americans. Emphasis is placed on broad contemporary issues as they relate to African Americans, such as the prison industrial complex, gender and health care. This course is intended for Black Studies majors and anyone interested in Ethnic Studies, history, teaching and current events.

FT; AA/AS; CSU; UC.

BLAS 120 Black Music**48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass

This course is a study of African American musical forms and styles in historical perspective. Emphasis is placed on providing students with an appreciation for the African roots of a variety of African American music genres. This course is intended for students majoring in Black Studies and Ethnic Studies; and all students interested in the history of African American music.

FT; AA/AS; CSU; UC.**BLAS 130 The Black Family****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass

This course is a study of the African American family. Emphasis is placed on the socio-cultural and psychological issues surrounding the history of the Black family in America. Topics include contemporary African American dating, marriage and divorce patterns, gender roles and extended family, kin and community networks. This course is intended for students majoring in Black Studies and Ethnic Studies; and all students interested in the historical and contemporary perspective of the Black family.

FT; AA/AS; CSU; UC.**BLAS 135 Introduction to Black Politics****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass

This course is a survey of African American experiences with the United States political system from the Colonial era to the present. Emphasis is placed on the role of race in American political culture, practices and institutions as well as the ideas, tactics and organizations developed and employed by African Americans in their struggle for political power. This course is intended for students who wish to major in Black Studies and/or who wish to gain general knowledge of the Black experience.

FT; AA/AS; CSU; UC.**BLAS 140A African American History to Reconstruction****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass

This survey course examines United States History from an African American lens from the Colonial period to 1877. The course content centers on the contributions, impact, and significance of African American experiences and focuses on the political, social, economic, and cultural development of the country. This course is intended for all students interested in Black Studies, Ethnic Studies, and the history of the U.S. from an African American perspective.

FT; AA/AS; CSU; UC.**BLAS 140B African American History since Reconstruction to the Present****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass

This survey course examines United States History from an African American lens from Reconstruction to the present. The course content centers the contributions, impact and significance of African American experiences and focuses on political, social, economic, cultural, and intellectual trends, the persistence of racism, and the struggle for full equality affecting all Americans. This course is intended for all students interested in Black Studies, Ethnic Studies, and the history of the U.S. from an African American perspective.

BLAS 145A Introduction to African History**48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This course is a survey of African History from the Stone Age through the beginnings of European colonization in the 1870s. Emphasis is placed on providing students with a broad presentation of the geographical features of the continent and its connections to the rest of the world, local and regional cultural, political, economic and social institutions, slavery, European conquest and colonization, and African resistance to colonization. This course is intended for students majoring in black studies or history and for all students interested in African history.

FT; AA/AS; CSU; UC.**BLAS 145B Introduction to African History****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This course is a survey of African History from the late nineteenth century to the present. Emphasis is placed on providing students with a broad presentation of European colonization and colonial rule, African independence movements, nation-building, economic development and the continuing quest for African unity. This course is intended for students majoring in black studies or history and for all students interested in African history.

FT; AA/AS; CSU; UC.

BLAS 150 Black Women in Literature, Film and the Media**48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This course analyzes stereotypical, contemporary and self images of Africana women in literature, film and media. This course is designed for Black Studies and Ethnic Studies majors, and all students interested in literature, film and media.

FT; AA/AS; CSU; UC.**BLAS 155 African American Literature****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass

This course is a survey of African American cultural expression through language and literature in historical perspective. Emphasis is placed on the cultural, ethnic, and political dynamics that influence literary, musical and theoretical texts. Topics include African praise songs, slave narratives, African American folktales, poetry, lyrics, spirituals, raps, short stories, novels, speeches and essays. This course is for students majoring in Black Studies and Ethnic Studies; and all students interested in literature from an African American perspective.

FT; AA/AS; CSU; UC.**BLAS 165 Sexuality and Black Culture****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for BLAS 265: Psychology and Social Aspects of Black Sexuality

This course is an in-depth study and analysis of the social and psychological factors that determine the nature of human sexuality in the African-American community. This course is intended for students majoring in Black Studies and Ethnic Studies; and all students interested in sexuality and the African-American community.

FT; AA/AS; CSU; UC.**BLAS 290 Independent Study****1-3 hours other; 1-3 units****Grading:** Letter Grade or Pass/No Pass**Limitation on Enrollment:** Obtain Permission Number from Instructor

This course is designed for students who wish to conduct additional research, a special project, or learning activities in the field of African American Studies. It is not intended to replace an existing course in the discipline. In this course students have a written contract with their instructor for activities such as: preparing problem analyses, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals.

BLDC-Building Construction Technology

BUSE-Business

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

BUSE 92 Introduction to Business Communication
48-54 hours lecture; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for BUSE 119 or OFCE 115. This course is a review of the principles and mechanics of English grammar and syntax for written and oral business communications. Topics include business vocabulary, dictionary usage, spelling, sentence structure, and punctuation for business writing. Students write business letters, resumes, memos, and informal business reports. This course is intended for students majoring in business who need a review of English for business communications.

BUSE 100 Introduction to Business
48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: BUSE 92 with a Grade of "C" or better, or equivalent

This introductory course for both business and non-business majors provides a broad understanding of the business community, including how culture; society; economic systems; legal, international, political, and financial institutions; and human behavior interact to affect a business organization's policies and practices within the U.S. and a global society. Topics include business functions and terminology; organizational structure and design; leadership; human resource management; organized labor practices; marketing; organizational communication; technology; entrepreneurship; legal, accounting, and financial practices; the stock and securities market; and business career planning. This course is intended for students majoring in Business or anyone interested in the function and role of the business community.

FT; AA/AS; CSU; UC.

BUSE 101 Business Mathematics

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course provides a comprehensive study of mathematical concepts and computational techniques used in business. Topics include the mathematics of bank services; payroll; buying and selling; interest and loans; taxes; insurance; depreciation; and annuities, stocks, and bonds. Students also use descriptive statistics to evaluate business-related data and quantitative reasoning skills to select among different options in business-related decisions. This course is intended for students majoring in business or others who work or intend to work in a business setting such as managers, supervisors, or work team members.

FT; AA/AS; CSU.

BUSE 102 Introduction to Customer Service

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course provides students with basic knowledge of customer service by examining customer service from the provider's and customer's perspectives. It takes a pragmatic approach to applying the principles of service within an organization. Topics include leadership in customer service, customer retention and satisfaction, classifications of service organizations, and principles and practices of internal service. This course is intended for students majoring in business or others interested in business.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

BUSE 115 Statistics for Business

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: Successful completion of Intermediate Algebra with a "C" or better or appropriate placement based on California title 5 regulations.

Advisory: CBTE 140 with a Grade of "C" or better, or equivalent or CBTE 143 with a Grade of "C" or better, or equivalent

This course is a study of statistical analysis. Topics include descriptive statistics, probability, sampling and sampling distributions, confidence intervals, hypothesis testing, analysis of variance (ANOVA), and regression and correlation analyses as aids for business decision making. This course is designed for students majoring in business, economics, information technology, social science, or related fields.

FT; AA/AS; CSU; UC; C-ID: MATH 110.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

BUSE 119 Business Communications

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: ENGL 101 with a Grade of "C" or better, or equivalent

This course applies the principles of effective and ethical communication to the creation of letters, memos, emails, and written and oral reports for a variety of business situations. The course emphasizes the development, analysis, organization, and composition of various types of professionally written messages, analytical reports, and business presentations using word processing and presentation-graphics software. Other topics include interpersonal communication, electronic media, and international/cross-cultural communication. This course is intended for students majoring in business and for others working in a business environment.

FT; AA/AS; CSU; C-ID: BUS 115.

BUSE 120 Personal Financial Management

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for CONF 110

This course is an introduction to the principles of personal finance and money management. Students examine their personal relationships with money and explore the psychological, sociological, and physiological factors that influence financial decisions. Emphasis is placed on financial goal setting, culminating in the development of a personal budget and financial plan. Other topics include income generation and career planning; effective spending decisions including major consumer purchases and real estate; savings strategies; credit building; insurance; retirement and estate planning; investment options; and the interrelationships among financial, social, physical, and mental health. This course is intended for all students interested in personal finance and money management.

FT; AA/AS; CSU; UC.

BUSE 140 Business Law and the Legal Environment

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or BUSE 92 with a Grade of "C" or better, or equivalent

This course introduces students to the legal system, the laws that govern business in America, and the principles underlying fundamental legal concepts. Topics include judicial and administrative systems; ethics; contracts; torts; bankruptcy; agency; business organizations and ownership types; government agencies and regulation; protection of intellectual property interest; and the international business environment. This course is intended for students majoring in business and for others interested in business law.

FT; AA/AS; CSU; UC; C-ID: BUS 120, BUS 125.

BUSE 150 Human Relations in Business

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course introduces students to human behavior as it relates to business. Topics include leadership, communication, status, decision making, motivation, and personnel problems. This course is intended for students majoring in business and others who work or intend to work in a business setting such as managers, supervisors, and work team members.

FT; AA/AS; CSU.

BUSE 155 Small Business Management

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: BUSE 101 with a Grade of "C" or better, or equivalent and BUSE 100 with a Grade of "C" or better, or equivalent

This course is a study of the elements involved in successfully operating a small business. Topics include human resource management, marketing for small business, and legal issues. This course is intended for students majoring in Business or anyone interested in owning or operating a small business.

FT; AA/AS; CSU.

BUSE 157 Developing a Plan for the Small Business

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

BUSE 101 with a Grade of "C" or better, or equivalent

This course prepares students to create an effective plan for developing a new business. Emphasis is placed on the key decisions facing the entrepreneur, including financing, marketing, and business location. This course is designed for students majoring in Business or planning to start their own business.

FT; AA/AS; CSU.

BUSE 201 Business Organization and Management

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course covers business organization and management fundamentals with a focus on the managerial functions of planning, organizing, leading, and controlling. Other topics include managerial ethics, corporate social responsibility, and personal management skills and techniques. This course is intended for students majoring in business and for others who work or intend to work in a position of organizational responsibility such as managers and supervisors.

FT; AA/AS; CSU.

BUSE 270 Business Internship / Work Experience

1-4 hours other; 1-4 units

Grading: Letter Grade Only

Limitation on Enrollment: Obtain Permission Number from Instructor

This course provides on-the-job learning experiences for students employed in a business-related job or internship. Students develop workplace competencies, critical thinking skills, and problem solving abilities through the creation and achievement of job-related learning objectives. This course may be taken up to four times. One unit of credit may be earned for every 54 hours of work experience. A maximum of fourteen credit hours for all work experience subject areas may be earned during one enrollment period. This course is intended for students majoring in Business or those interested in the business field.

FT; AA/AS; CSU.

BUSE 440 Cyber Law and Ethics

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: Special Admission - must be admitted to program.

This course is a study of various technical and administrative aspects of cybersecurity as it relates to law, computing, and ethics. Emphasis is placed on ethical theory and professional ethics in cybersecurity. Topics include relativism, utilitarianism, and deontological theories; methods and tools for analysis in ethical arguments; legal bases for the right to privacy and freedom of expression; and various legislation and regulations that impact the Internet and cyber technology. This course is designed for students in the Cyber Defense and Analysis program.

FT; AA/AS; CSU.

CBTE-Computer Business Technology

CBTE 140 Beginning Microsoft Excel

24-27 hours lecture/0.5 hours lab; 2 units

Grading: Letter Grade Only

Advisory: CBTE 114 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for CBTE 140A or CBTE 143. This course is intended for students, office support personnel, and business owners who require a competency in performing tasks in Microsoft Excel. Students receive hands-on instruction on how to create, modify, and enhance workbooks, charts, and formulas.

FT; AA/AS; CSU.

CBTE 143 Intermediate Microsoft Excel

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Advisory: CBTE 114 with a Grade of "C" or better, or equivalent

This course is designed for students preparing for a career or job in which a competency in intermediate-to-advanced Excel functions is required to perform daily tasks. Students receive hands-on instruction on charts, PivotTables, PivotCharts, functions, formulas, data validation, autofilters, what-if analyses, templates, macros, Visual Basic for applications, and integration of Excel with other programs.

FT; AA/AS; CSU.

CBTE 164 Introduction to Microsoft Outlook**12-13.5 hours lecture/0.3 hours lab; 1 unit****Grading:** Letter Grade Only

This course is an introduction to the features of Microsoft Outlook. Students learn how to manage messages, schedule appointments, organize and manage tasks and contact lists, and customize Outlook. This course is designed for students intending to use Microsoft Outlook for academic, professional, and/or personal purposes.

FT; AA/AS; CSU.**CBTE 180 Microsoft Office****32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade Only**Advisory:** CBTE 114 with a Grade of "C" or better, or equivalent

This course is designed for students interested in an overview and basic working knowledge of Microsoft Office Professional suite for personal and/or professional purposes. Emphasis is placed on word processing, spreadsheet, database, and presentations, and the integration of data within and between the programs.

FT; AA/AS; CSU.

CHEM-Chemistry**CHEM 16 Workshop for Introduction to General Chemistry****0.5 hours lab; 0.5 units****Grading:** Pass/No Pass Only**Corequisite:** CHEM 152

This is a guided problem solving course designed to supplement lecture material in Introduction to General Chemistry. Focus is placed on nomenclature, dimensional analysis, chemical equations, stoichiometry, and solutions chemistry. This course is recommended for students concurrently enrolled in Introduction to General Chemistry lecture who wish to supplement their instruction.

FT.**CHEM 20 Introduction to General Chemistry Refresher****0.5 hours lab; 0.5 units****Grading:** Pass/No Pass Only

This course is designed for students that have successfully completed Introduction to General Chemistry but need a review course before beginning the General Chemistry. Also, students who have completed high school chemistry and wish to prepare for the challenge exam for General Chemistry may also benefit. Focus is on chemical calculations, density, molar mass, molarity, stoichiometry, and nomenclature. This course will not replace a failing grade in Introduction to General Chemistry. It does not satisfy the prerequisite for General Chemistry I.

FT.**CHEM 100 Fundamentals of Chemistry****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** Successful completion of Intermediate Algebra with a grade of C or better or appropriate placement based on California Title 5 regulations.**Corequisite: Completion of or concurrent enrollment****in:** CHEM 100L with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for or concurrent enrollment in CHEM 200

This course is not open to students with previous credit for Chemistry 152

This course is an introductory study of the language and tools of chemistry. Basic concepts of the structure, properties, interactions of matter and energy are studied, both qualitatively and quantitatively. Emphasis is placed on matter, chemical changes, chemical conversions, chemical bonding, and acid-base chemistry. This course is intended for students majoring in nursing, nutrition, or animal health technology and provides a foundation for further coursework in chemistry, in particular for introductory organic chemistry.

FT; AA/AS; CSU; UC; C-ID: CHEM 101 (CHEM 100, CHEM 100L).

CHEM 100L Fundamentals of Chemistry Laboratory

1 hour lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Prerequisite: Successful completion of Intermediate Algebra with a grade of C or better or appropriate placement based on California Title 5 regulations.

Corequisite: Completion of or concurrent enrollment in: CHEM 100 with a Grade of "C" or better, or equivalent
This laboratory course is designed to illustrate the principles of inorganic and physical chemistry and to familiarize students with scientific reasoning, basic laboratory equipment and safe practices, scientific data collection methods and interpretation. This laboratory course is intended for students majoring in nursing, nutrition and allied health sciences, and provides a foundation for future lab work in chemistry.

FT; AA/AS; CSU; UC; C-ID: CHEM 101 (CHEM 100, CHEM 100L).

CHEM 111 Chemistry in Society

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course emphasizes conceptual, not mathematical, topics in chemistry and scientific thinking. Current issues in environmental chemistry such as energy resources, air and water pollution are explored. Students discuss the effects and controversy surrounding the use of different forms of energy. In addition, current issues in organic and biochemistry are examined including trends in diets, certain medicines and drugs, and household items. Students analyze current trends or news involving chemistry. Topics include a basic understanding of matter and energy, physical and chemical changes, the atom, nuclear chemistry, bonding, acids and bases, organic chemistry, and biochemistry. This course is intended for non-science majors.

FT; AA/AS; CSU; UC.

CHEM 111L Chemistry in Society Laboratory

1 hour lab; 1 unit

Grading: Letter Grade Only

Corequisite: Completion of or concurrent enrollment in: CHEM 111 with a Grade of "C" or better, or equivalent
This course illustrates the principles of chemistry in order for the student to understand how chemistry is used in our society. Experiments explore not only basic concepts in chemistry such as matter, energy, and the atom, but also explore real world applications of chemistry. This includes performing experiments related to the chemistry of the environment, household products, and biochemistry. Students learn how to work safely within the laboratory. This laboratory course is intended for non-science majors.

FT; AA/AS; CSU; UC.

CHEM 130 Introduction to Organic and Biological Chemistry

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: CHEM 100 with a Grade of "C" or better, or equivalent

CHEM 100L with a Grade of "C" or better, or equivalent
CHEM 152 with a Grade of "C" or better, or equivalent
CHEM 152L with a Grade of "C" or better, or equivalent

Corequisite: Completion of or concurrent enrollment in: CHEM 130L with a Grade of "C" or better, or equivalent
This is a one-semester course that introduces the basic physical, chemical and structural features of organic and biological compounds. Topics such as bonding, saturated and unsaturated hydrocarbons, the chemistry of organic functional groups, and the properties of important biological compounds such as carbohydrates, fats, and proteins are covered. The importance of these compounds in our daily lives is emphasized. This course is designed for nursing, nutrition, and allied health majors.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

CHEM 130L Introduction to Organic and Biological Chemistry Laboratory

1 hour lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Prerequisite: CHEM 100 with a Grade of "C" or better, or equivalent

CHEM 100L with a Grade of "C" or better, or equivalent
CHEM 152 with a Grade of "C" or better, or equivalent
CHEM 152L with a Grade of "C" or better, or equivalent

Corequisite: Completion of or concurrent enrollment in: CHEM 130 with a Grade of "C" or better, or equivalent
This is a one-semester laboratory course that illustrates the principles presented in introductory organic chemistry. Students are introduced to common organic chemistry laboratory equipment, fundamental organic and biochemical reactions, tests and techniques. Techniques covered include chromatography, recrystallization, and distillation. Tests and reactions of common organic functional groups, carbohydrates, fats, and amino acids are covered. Synthesis of a medicinal compound such as aspirin or a nitrogen-based analgesic is also covered. This course is designed for nursing, nutrition, and allied health majors.

FT; AA/AS; CSU; UC.

CHEM 152 Introduction to General Chemistry

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: Successful completion of Intermediate Algebra with a grade of C or better or placement Milestone M50 based on California Title 5 regulations.

Corequisite: Completion of or concurrent enrollment in: CHEM 152L with a Grade of "C" or better, or equivalent

Advisory: MATH 116 with a Grade of "C" or better, or equivalent or MATH 104 with a Grade of "C" or better, or equivalent or MATH 119 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for CHEM 151
This is a one-semester preparatory course in chemistry consisting of an intensive study of the principles of inorganic and physical chemistry in preparation for General Chemistry. Topics include atomic structure, chemical nomenclature, periodicity, chemical equations, stoichiometry, solutions, and gas laws. Emphasis is placed on problem solving and chemical calculations. This course is intended for those students majoring in one of the natural sciences, engineering, or related curricula who need to take General Chemistry.

FT; AA/AS; CSU; UC.

CHEM 152L Introduction to General Chemistry Laboratory

1 hour lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Prerequisite: Successful completion of Intermediate Algebra with a grade of C or better or placement Milestone M50 based on California Title 5 regulations.

Corequisite: Completion of or concurrent enrollment in: CHEM 152 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for CHEM 151
This course is a one-semester laboratory in the principles of inorganic and physical chemistry in preparation for General Chemistry. Topics include chemical measurement, significant figures, laboratory safety, laboratory techniques, chemical reactions and stoichiometry. Emphasis is placed on problem solving, data analysis and chemical calculations. This course is intended for students majoring in one of the natural sciences, engineering or related curricula who need to take General Chemistry.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

CHEM 200 General Chemistry I - Lecture

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: CHEM 152 with a Grade of "C" or better, or equivalent and CHEM 152L with a Grade of "C" or better, or equivalent and Successful completion of Intermediate Algebra with a grade of C or better or appropriate placement based on California Title 5 regulations.

Corequisite: Completion of or concurrent enrollment in: CHEM 200L with a Grade of "C" or better, or equivalent

This is the first course in a two-course sequence in general chemistry. Emphasis is placed on the principles and laws of inorganic chemistry, including quantitative, mathematical problem solving. Topics include chemical equations, stoichiometry, atomic theory and its relationship to periodicity of the elements, bonding theories, molecular geometry, calorimetry, thermochemistry, solution chemistry, liquids, solids, and the gas laws. This course is intended for science majors and all students interested in chemistry.

FT; AA/AS; CSU; UC; C-ID: CHEM 110; CHEM 120S (CHEM 200, 200L, 201, 201L).

CHEM 200L General Chemistry I - Laboratory

2 hours lab; 2 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: CHEM 152 with a Grade of "C" or better, or equivalent
CHEM 152L with a Grade of "C" or better, or equivalent
Successful completion of Intermediate Algebra with a grade of C or better or appropriate placement based on California Title 5 regulations.

Corequisite: Completion of or concurrent enrollment in: CHEM 200 with a Grade of "C" or better, or equivalent

This is the first-semester laboratory course in a two-course sequence in general chemistry. Emphasis is placed on laboratory experiments that illustrate the fundamental principles and laws of chemical behavior and the properties of matter, including quantitative, mathematical problem-solving. Topics include techniques of data analysis, chemical formulas, equations, stoichiometry and maintenance of a laboratory notebook. This course is intended for science majors and all students interested in chemistry.

FT; AA/AS; CSU; UC; C-ID: CHEM 110; CHEM 120S (CHEM 200, 200L, 201, 201L).

CHEM 201 General Chemistry II - Lecture**48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** CHEM 200 with a Grade of "C" or better, or equivalent

CHEM 200L with a Grade of "C" or better, or equivalent

Successful completion of Intermediate Algebra with a grade of "C" or better or appropriate placement based on California Title 5 regulations.

Corequisite: Completion of or concurrent enrollment**in:** CHEM 201L with a Grade of "C" or better, or equivalent

This course is the second course in a two-course sequence in general chemistry and is intended for students majoring in science or satisfying prerequisites for professional schools. The course covers the principles of physical and inorganic chemistry with an emphasis on quantitative, mathematical problem solving. Topics in the course include chemical kinetics, chemical equilibrium, acid-base theory, thermodynamics, electrochemistry, coordination chemistry and nuclear chemistry. The course also includes an introduction to organic chemistry.

FT; AA/AS; CSU; UC; C-ID: CHEM 120S (CHEM 200, 200L, 201, 201L).**CHEM 201L General Chemistry II - Laboratory****2 hours lab; 2 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** CHEM 200 with a Grade of "C" or better, or equivalent and CHEM 200L with a Grade of "C" or better, or equivalent and Successful completion of Intermediate Algebra with a grade of C or better or appropriate placement based on California Title 5 regulations.**Corequisite: Completion of or concurrent enrollment****in:** CHEM 201 with a Grade of "C" or better, or equivalent

This is the second-semester laboratory course of a two-course sequence in general chemistry. It is intended for students majoring in science or satisfying prerequisites for professional schools. Emphasis is placed on the fundamental principles of physical and inorganic chemistry. Topics include techniques of data analysis, chemical kinetics, chemical equilibrium, acids, bases, acidic/basic salts, thermochemistry, electrochemistry, and coordination chemistry. Computer skills are introduced and applied to data analysis, laboratory simulations, and computer interfacing with laboratory equipment.

FT; AA/AS; CSU; UC; C-ID: CHEM 120S (CHEM 200, 200L, 201, 201L).**CHEM 231 Organic Chemistry I - Lecture****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** CHEM 201 with a Grade of "C" or better, or equivalent

CHEM 201L with a Grade of "C" or better, or equivalent

Corequisite: Completion of or concurrent enrollment**in:** CHEM 231L with a Grade of "C" or better, or equivalent**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

ENGL 105 with a Grade of "C" or better, or equivalent

This course is the first semester of a one-year course in organic chemistry. Major themes include, but are not limited to, bonding, molecular structure, isomerism, conformational analysis, nomenclature, reaction mechanisms, and synthesis. Emphasis is placed on the reactions of aliphatic compounds, such as alkanes, cycloalkanes, alkenes, alkynes, alkyl halides, and alcohols. Organic chemistry literature and spectral interpretation using techniques, such as infrared and nuclear magnetic spectroscopies, are introduced to support the above topics. This course is designed for students pursuing a degree in the chemical sciences or training in chemical technology, as well as other transfer students who need organic chemistry as part of preparation for majors, such as molecular biology, premedical, pre dental, and pharmacy.

FT; AA/AS; CSU; UC; C-ID: CHEM 160S (CHEM 231, 231L, 233, 233L).

CHEM 231L Organic Chemistry I - Laboratory**2 hours lab; 2 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** CHEM 201 with a Grade of "C" or better, or equivalent

CHEM 201L with a Grade of "C" or better, or equivalent

Corequisite: Completion of or concurrent enrollment in: CHEM 231 with a Grade of "C" or better, or equivalent**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This laboratory course is designed to illustrate the principles presented in the first semester of organic chemistry. Emphasis is placed on the determination of physical properties and the separation, purification and identification of organic compounds. This course acquaints students with the equipment, glassware, techniques and safe practices specific to the organic chemistry laboratory. Techniques, such as measurement of physical constants, recrystallization, extraction, distillation and chromatography are used in the synthesis and/or characterization of selected classes of organic compounds, such as alkanes, alkenes, alkynes, alkyl halides, and alcohols. The organic chemistry literature and spectral interpretation using techniques, such as infrared and nuclear spectroscopies, are introduced to support the above topics. This course is designed for students pursuing a degree in the chemical sciences or training in chemical technology, as well as other transfer students who need organic chemistry as part of preparation for majors, such as molecular biology, premedical, pre dental, and pharmacy.

FT; AA/AS; CSU; UC; C-ID: CHEM 160S (CHEM 231, 231L, 233, 233L).**CHEM 233 Organic Chemistry II - Lecture****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** CHEM 231 with a Grade of "C" or better, or equivalent and CHEM 231L with a Grade of "C" or better, or equivalent**Corequisite: Completion of or concurrent enrollment in:** CHEM 233L with a Grade of "C" or better, or equivalent

This course is the second semester of a one-year sequence in organic chemistry. Major themes include, but are not limited to, molecular structure, molecular behavior, nomenclature, reaction mechanisms, and synthesis. Emphasis is placed on the reactions of selected classes of organic compounds, such as alcohols, ethers, aldehydes, ketones, carboxylic acids and their derivatives, amines, benzenoid and heterocyclic aromatics and their derivatives, carbohydrates, lipids, amino acids and their bio-organic compounds. The study of these molecules provides a backdrop for exploring the factors that govern particular transformations within a synthetic sequence. The use of print and electronic media and the interpretation of spectroscopic information (such as infrared, nuclear magnetic resonance, and ultraviolet-visible spectroscopies, and mass spectrometry) for the analysis and differentiation of molecular structures is continued. This course is designed for students pursuing a degree in the chemical sciences or training in chemical technology, as well as other transfer students who need organic chemistry as part of preparation for majors, such as molecular biology, premedical, pre dental, and pharmacy.

FT; AA/AS; CSU; UC; C-ID: CHEM 160S (CHEM 231, 231L, 233, 233L).

CHEM 233L Organic Chemistry II - Laboratory

2 hours lab; 2 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: CHEM 231 with a Grade of "C" or better, or equivalent and CHEM 231L with a Grade of "C" or better, or equivalent

Corequisite: Completion of or concurrent enrollment

in: CHEM 233 with a Grade of "C" or better, or equivalent

This course is designed to illustrate the principles presented in the second semester of organic chemistry. Emphasis is placed on synthesis, purification and/or characterization of selected classes of organic compounds, including but not limited to aromatics, alcohols, aldehydes and ketones, carboxylic acids, amines, and simple examples of bio-organic molecules. Additional emphasis is placed on multi-step synthetic pathways and product identification using selected methods of qualitative organic analysis such as wet chemical and advanced spectroscopic techniques. Variation of scale from micro- to macro-quantities, and more advanced separation and analytical techniques, distinguish the level of this course from the first semester of organic chemistry laboratory. This course is designed for students pursuing a degree in the chemical sciences or training in chemical technology, as well as other transfer students who need organic chemistry as part of preparation for majors, such as molecular biology, premedical, pre dental, and pharmacy.

FT; AA/AS; CSU; UC; C-ID: CHEM 160S (CHEM 231, 231L, 233, 233L).

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

CHEM 251 Quantitative Analytical Chemistry

48-54 hours lecture/2 hours lab; 5 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: CHEM 201 with a Grade of "C" or better, or equivalent

CHEM 201L with a Grade of "C" or better, or equivalent

Corequisite: Completion of or concurrent enrollment

in: MATH 121 with a Grade of "C" or better, or equivalent

MATH 150 with a Grade of "C" or better, or equivalent

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

ENGL 105 with a Grade of "C" or better, or equivalent

This is a course in quantitative analysis. Major topics include theory and practice of gravimetric and volumetric methods of chemical analysis and introduction to instrumental methods of analysis with a focus on precision and accuracy of experimental data. This course is intended for students majoring in chemistry or biochemistry and others who need the course for career advancement.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

CHEM 255 Inside the Chemical, Biochemical, and Pharmaceutical Industries

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: CHEM 100 with a Grade of "C" or better, or equivalent

CHEM 100L with a Grade of "C" or better, or equivalent

CHEM 152 with a Grade of "C" or better, or equivalent

CHEM 152L with a Grade of "C" or better, or equivalent

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is an introduction to the chemical, biochemical, and pharmaceutical industries. Topics include drug discovery, development and approval processes, the Food and Drug Administration (FDA), good lab practice (GLP), good manufacturing practice (GMP), hazardous materials management, quality control and assurance, and common problems/calculations encountered in a laboratory environment. This course is intended for students interested in becoming a chemical and/or biochemical laboratory technician.

FT; AA/AS; CSU.

CHEM 290 Independent Study

1-3 hours other; 1-3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is designed for students who wish to conduct additional research, a special project, or learning activities in the field of chemistry. It is not intended to replace an existing course in the discipline. In this course students have a written contract with their instructor for activities such as: preparing problem analyses, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals.

CHIC-Chicana and Chicano Studies

CHIC 110A Introduction to Chicana and Chicano Studies

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

This course is an introductory survey of the field of Chicana/o Studies and the factors that influence the Chicano culture. Emphasis is placed on the historical development of the Chicano people including their Mesoamerican roots, cultural identification, political activities, and their contemporary roles and influence in United States culture, society and economy. This course is designed for all students interested in Chicana/o Studies, Social Sciences, and Ethnic Studies.

FT; AA/AS; CSU; UC.

CHIC 110B Introduction to Chicana and Chicano Studies

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course is a survey of the field of Chicano Studies and the historical and contemporary factors that influence Chicano society. Emphasis is placed on the Chicana/o experience in the United States through an analysis of the social, political, and economic factors that impact and shape the Chicana/o community. This course is designed for all students interested in Chicana/o Studies, Social Studies and Ethnic Studies.

FT; AA/AS; CSU; UC.

CHIC 130 Mexican Literature in Translation

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

This course is a survey of Mexican literature in translation. Students are introduced to authors of the novel, short story, poem, essay, and folklore within the context of Mexican history, politics and society. This course is designed for Chicano Studies majors and anyone interested in literature.

FT; AA/AS; CSU; UC.

CHIC 135 Chicana/o Literature

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

This is a survey course that examines the literary expressions of the Chicana/o people in the United States with an emphasis on the early 1800s to the present. Students in this class read and discuss works from a variety of literary genres. Students also read and discuss works from important contributors to the body of Chicana/o Literature in order to understand how the literature reflects the historical, socio-political, cultural experiences of the Chicana/o in the United States and its relationship to global literary movements. This course is designed for Chicana/o Studies majors and anyone interested in Ethnic Studies and literature.

FT; AA/AS; CSU; UC.

CHIC 138 Literature of La Raza in Latin America in Translation

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

This course is a survey of the novels, short stories, poetry and films produced in Latin America since the early civilizations to the present. Emphasis is placed on major cultural works reflecting and questioning the historical legacies and material realities of the project of colonialism in the Americas and its peoples. This course is for all students with an interest in the study of Latin American literature and culture.

FT; AA/AS; CSU; UC.

CHIC 140 Chicana/o Sociology

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course examines the institutional and structural conditions as well as social dynamics that have and continue to shape the Chicana/o experience in U.S. society. This course makes use of Sociological perspectives that incorporate various paradigms/theories/concepts including but not limited to: Stratification, Colonialism/Imperialism, Chicana Feminism, Queer Theory, Conflict Theory, Critical Race Theory, Intersectionality, and Assimilation/Acculturation. The application to Chicana/os and Latinos of traditional sociological theories and empirical research are examined and evaluated. This course is intended for all students interested in Chicana/o Studies, ethnic studies, or the social sciences.

FT; AA/AS; CSU; UC.

CHIC 141A United States History from a Chicano Perspective**48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass

This course is a survey of early American history from the Mexican/Chicano perspective. Emphasis is placed on the period of discovery to the period of Reconstruction with emphasis on the evolution, influence, and experience of the Chicano. Students analyze Chicano contributions to the political, social, economic, and cultural development of the United States. This course is intended for all students interested in history, ethnic studies, or other social sciences.

FT; AA/AS; CSU; UC.**CHIC 141B United States History from a Chicano Perspective****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass

This is a survey course in American history that covers the period of the American acquisition in 1848 of Mexico to the present. Emphasis is placed on the role of Chicanos in the development of the United States throughout the nineteenth and twentieth centuries. Topics include slavery in the former Mexican territories, the Native American experience, immigration patterns and constitutional development and government in California. This course is intended for all students interested in history, ethnic studies, or other social issues.

FT; AA/AS; CSU; UC.**CHIC 150 History of Mexico****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass

This course is a survey of Mexican history from the ancient times to the present. Special emphasis is given to major historical developments from the time of the Spanish Conquest to the Revolution of 1910 and its aftermath. Special consideration is given to the economic, political, social, and cultural factors which have shaped modern Mexico. This course is designed for students majoring in Chicano Studies or History and prepares students for careers dealing with Mexico and/or Mexican culture and the relationships between Mexico and the United States.

FT; AA/AS; CSU; UC.**CHIC 170 La Chicana****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This course is the study of the Chicana in American society in historical and sociological perspective. Emphasis is placed on Chicana feminist scholarship and cultural representations, border issues, resistance to patriarchy, and the search for power. This course is designed for all students interested in Chicana/o Studies and Ethnic Studies.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

CHIC 190 Chicano Images in Film**48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass

This course is a critical approach to cinematic images of Chicanos as depicted in selected films. Focus is placed on stereotypical and negative portrayals during early cinema with an examination of the more realistic and complex portraits of more recent times. Film genres, such as early Hollywood features, documentaries and the emerging "Chicano film" are examined. This course is designed for students interested in film studies and Ethnic Studies with a special focus on the Chicano experience in film.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

CHIC 201 The Indigenous Tradition of Mexico and Ancient Mesoamerica**48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass

This course examines the Indigenous traditions of Mexico and Ancient Mesoamerica. The course explores the culture and history of the Mesoamerican civilizations and their relationship with the societies of Aridamerica and Oasisamerica, and the experiences of the Indigenous communities from the colonial times to the present. This course is intended for students who are pursuing a major in Chicana and Chicano Studies, History, Ethnic Studies, or other Social Sciences, and all students interested in the Mexican culture.

FT; AA/AS; CSU; UC.

CHIC 210 Chicano Culture

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

This course is a study of Chicana/o culture in the United States. Emphasis is placed on historical and contemporary representations of Chicana/os through their cultural products, such as music, dance, theatre, literature and film. Students apply Cultural Studies theories to analyze and interpret Chicana/o cultural products. This course is designed for all students interested in Chicana/o culture and Ethnic Studies.

FT; AA/AS; CSU; UC.

CHIC 230 Chicano Art

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course is a comprehensive overview of the major influences, themes and styles in Chicano art from its emergence in the 1960s to the beginning of the 21st century. Emphasis is placed on the historical, social and cultural context of the Chicana/o art movement and the major forces that shape artistic creation within this field. Topics include Chicano paintings, murals, prints, sculpture, installation, performance and video. This course is designed for all students interested in Chicana/o studies, Ethnic Studies and for art majors who want to explore a revolutionary contemporary art movement.

FT; AA/AS; CSU; UC.

CHIC 250 Introduction to Chicana/o Dramatic Art

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course is a survey of Chicano and Latino theater, its historical roots, techniques, styles and literature. Students explore and analyze the origins and development of various related forms in the context of the Chicana/o culture of the U.S. Southwest and Mexico. This course is designed for Chicana/o Studies majors and for students interested in the Dramatic Arts, Ethnic Studies and literature.

FT; AA/AS; CSU; UC.

CHIC 290 Independent Study

1-3 hours other; 1-3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: Obtain Permission Number from Instructor

For students with advanced background in Chicano Studies who wish to study special problems or work on specialized projects.

FT; AA/AS; CSU.

CHIL-Child Development

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

CHIL 100 Principles and Practices of Early Childhood Education

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course is an examination of the current early childhood field and workforce needs. Emphasis is placed on underlying theoretical principles and competencies as they relate to becoming highly qualified and successful early childhood educators who are prepared to meet the needs of our diverse society. This course is a foundational course for students majoring in child development and those interested in the field.

FT; AA/AS; CSU.

CHIL 101 Human Growth and Development

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course examines the progression of development in the physical, cognitive, social, and emotional domains and identifies developmental milestones for children from conception through adolescence. Emphasis is on interactions between biological processes and environmental factors. Students observe children, evaluate individual differences, and analyze characteristics of development at various stages according to developmental theories. This course is a core requirement for the State of California Child Development Permit and the State of California Community Care Licensing, Title XXII.

FT; AA/AS; CSU; UC; C-ID: CDEV 100.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

CHIL 120 Observation and Assessment in Early Childhood Programs

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: CHIL 101 with a Grade of "C" or better, or equivalent

This course is an introduction to the appropriate use of assessment and observation tools and provides strategies for documenting young children's development and learning. Emphasis is placed on the use of data to inform the planning of learning environments and curriculum experiences. Topics include strategies for collaboration with families and professionals. Ten hours of observation in a child care setting is required. This course is designed for students majoring in child development and those interested in the field.

FT; AA/AS; CSU.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

CHIL 130 Introduction to Curriculum

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: Completion of or concurrent enrollment in:

CHIL 101 with a Grade of "C" or better, or equivalent

This course is an introduction to planning developmentally appropriate curriculum and environments for children birth through age eight. Emphasis is placed on utilizing theories of learning and developmentally appropriate practices to plan environments and curriculum in all content areas. Topics include indoor and outdoor environmental considerations as well as the integration of learning domains. This course is designed for students majoring in child development and those interested in the field.

FT; AA/AS; CSU.

CHIL 133 Curriculum: Language, Literacy, and Art

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course introduces the function of language, literacy, and artistic expression in early childhood educational programs. Emphasis is placed on the development of language, literacy, and art curriculum activities, and selection of appropriate materials. Students utilize the California Foundations and Frameworks to design and implement appropriate activities for a variety of age groups and developmental levels. This course is intended for students interested in working in early childhood education, obtaining California Child Development Permits, and transferring to four-year institutions.

FT; AA/AS; CSU.

CHIL 135 Curriculum: Science, Math, and Music and Movement

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for CHIL 131

This course introduces the function of science, math, music, and movement in early childhood educational programs. Emphasis is placed on the development of science, math, and music and movement concepts, and curriculum activities. Students utilize the California Foundations and Frameworks to design and implement appropriate activities for a variety of age groups and developmental levels. This course is intended for students interested in working in early childhood education, obtaining California Child Development Permits, and transferring to four-year institutions.

FT; AA/AS; CSU.

CHIL 141 The Child, Family and Community

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course is a study of the dynamics of human development and socialization in a culturally pluralistic society. Emphasis is placed on the influences of contemporary family living and cultural patterns on the child, school-family relationships, and community resources and services that support and strengthen families. This course is a core requirement for California Child Development teacher/director center permits as well as for the State of California Department of Community Care Title 22 licensing childcare centers requirements. This course is designed for all students interested in child development and multi-cultural and behavioral studies.

FT; AA/AS; CSU.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

CHIL 150 Teaching in a Diverse Society

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course examines both historical and current perspectives of diversity and inclusion and the impact of systemic societal influences on development and learning. Emphasis is placed on incorporating strategies for developmental, cultural, and linguistically appropriate anti-bias curriculum as well as approaches to promote inclusive and anti-racist classroom communities. Topics include the influence of the student's own culture and life experiences on teaching and interactions with children and families. This course is designed for students majoring in child development and those interested in the field.

FT; AA/AS; CSU.

CHIL 151 Program Planning

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: CHIL 101 with a Grade of "C" or better, or equivalent

CHIL 111 with a Grade of "C" or better, or equivalent or CHIL 121 with a Grade of "C" or better, or equivalent or CHIL 131 with a Grade of "C" or better, or equivalent or CHIL 133 with a Grade of "C" or better, or equivalent or CHIL 135 with a Grade of "C" or better, or equivalent or CHIL 160 with a Grade of "C" or better, or equivalent

Corequisite: CHIL 270 or CHIL 275

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course focuses on planning the preschool learning environment to promote optimal development. Emphasis is placed on curriculum planning, guidance, safety, record keeping, observation techniques, project planning, and classroom management. Students enrolled in this course must be concurrently working in a preschool learning environment under the supervision of a person holding a Child Development Master Teacher Permit or the equivalent. This course is intended for students pursuing teaching careers in early care and education settings and partially fulfills State of California Permit and Title 22 teacher requirements.

FT; AA/AS; CSU.

CHIL 153 Techniques of Teaching Using the Reggio Emilia Approach

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for CHIL 265E

This course is based on the early childhood philosophy and teaching techniques adopted by the schools from Reggio Emilia, Italy. Emphasis is placed on the overall principles of the Reggio Emilia philosophy of valuing the capabilities of the child, collaborations between the teachers, family and community, strategies of emergent curriculum, project work and the documentation process. Adaptation strategies for the use of Reggio in traditional preschools and childcare programs are addressed. This course is designed for students majoring in child development and for teachers and administrators as partial fulfillment of Title 22 and Child Development Permit requirements.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

CHIL 160 Observation and Assessment of Children

16-18 hours lecture/1 hour lab; 2 units

Grading: Letter Grade Only

Limitation on Enrollment: Health and Safety. TB clearance within the last year is required.

This course focuses on behavioral patterns and growth processes of young children through the use of a variety of assessment and observation strategies to document child development and behavior. Child observations are conducted and analyzed through supervised participation in the campus early education center. Topics include the use of observation and assessment of children in planning, implementing, and evaluating early childhood curriculum and environments. This course partially fulfills the specialization requirements for the State of California Master Teacher Permit.

FT; AA/AS; CSU.

CHIL 161 Observations and Issues in Child Development

16-18 hours lecture/1 hour lab; 2 units

Grading: Letter Grade Only

Limitation on Enrollment: Health and Safety. TB clearance within the last year is required.

This course explores current issues in child development and how these issues influence both the child and family. The course emphasizes effective communication skills, positive guidance techniques, kindergarten readiness skills, and appropriate classroom activities. It is intended for students majoring in child development and parents of children enrolled in the campus child development center. It partially fulfills the specialization requirements for the State of California Master Teacher Permit.

FT; AA/AS; CSU.

CHIL 162 Positive Child Guidance

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course explores various behavior management techniques; interpersonal communication; and ideas and suggestions to assist caregivers in guiding a child's behavior. Students apply developmental, cultural, and communicative principles in combination with observations of real situations. The focus is on children from birth through age 10. This course partially fulfills the specialization requirements for the State of California Master Teacher Permit. It is intended for students who plan careers in early childhood and family support programs.

FT; AA/AS; CSU.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

CHIL 163 Experience in Child Guidance Techniques for Early Childhood Classrooms

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Prerequisite: CHIL 101 with a Grade of "C" or better, or equivalent and CHIL 141 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for CHIL 162

This course explores guidance techniques for working with children from birth to age eight in early education settings. Emphasis is placed on the application of social and emotional strategies, developmentally appropriate practices, supportive environmental design, and the principles of professional ethics and diversity in working with children and families. Observation techniques and guided practice are emphasized within a three hour weekly lab experience. This course is intended for students who plan careers in early childhood and family support programs.

FT; AA/AS; CSU.

CHIL 166 Curriculum for Diverse Learners

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course is an in-depth study of inclusive environments, guidance techniques, and curriculum planning strategies that are designed to meet the needs of the diverse children and families in our current society. Emphasis is placed on cognitive, physical, social- emotional, cultural, and linguistic diversity, and how well-designed environments, intentionally planned curriculum, and supportive behavioral strategies work together to provide a classroom that is welcoming and ensures that all children and families in the program thrive. This course is designed for parents, teachers, nurses, social workers, and paraprofessionals employed in schools and early childhood programs. This course partially meets the specialization requirements for the Master Teacher Permit.

FT; AA/AS; CSU.

CHIL 175 Infant-Toddler Growth and Development

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course examines the physical, social, emotional, and cognitive development of the infant and toddler and appropriate strategies to support this development. Emphasis is placed on culturally responsive techniques that support diverse family practices and connections. Appropriate observations and visitations to the community are required. This course meets State of California Title 22 licensing regulations for teachers in infant-toddler settings and fulfills the infant-toddler specialization requirement for the State of California Master Teacher Permit when taken in addition to CHIL 176. It is intended for students majoring in child development, parents, or those interested in infant-toddler care.

FT; AA/AS; CSU.

CHIL 176 Principles of Infant-Toddler Caregiving

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course is a study of the principles of infant-toddler care, including all aspects of infant and toddler development. Emphasis is placed on planning appropriate indoor and outdoor curriculum and environments. Topics include health, nutrition, and safety for the very young as well as licensing regulations, staff interactions, parent participation, and program development. This course meets State of California Title 22 licensing regulations for teachers in infant-toddler settings and fulfills the infant-toddler specialization requirement for the State of California Master Teacher Permit when taken in addition to CHIL 175. It is intended for students majoring in child development, parents, or those interested in infant-toddler care.

FT; AA/AS; CSU.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

CHIL 180 Nutrition, Health, and Safety for Children

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course is a survey of the laws, regulations, standards, policies, procedures, and best practices related to health, safety, and nutrition in care and education settings for children birth through middle childhood. Emphasis is placed on the teacher's role in prevention strategies, nutrition and meal planning, integrating health safety and nutrition experiences into daily routines, and overall risk management. This course is designed for students majoring in child development and those interested in the field.

FT; AA/AS; CSU.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

CHIL 193 Early Childhood Practicum

48-54 hours lecture/2 hours lab; 5 units

Grading: Letter Grade Only

Prerequisite: CHIL 100 with a Grade of "C" or better, or equivalent and CHIL 101 with a Grade of "C" or better, or equivalent and CHIL 120 with a Grade of "C" or better, or equivalent and CHIL 130 with a Grade of "C" or better, or equivalent and CHIL 141 with a Grade of "C" or better, or equivalent

This course provides a supervised field experience in the development of early childhood teaching competencies and the daily planning of appropriate curriculum and environments for young children. Emphasis is placed on creating connections between theory and practice, developing professional behaviors, and building a comprehensive understanding of how to work effectively with children and families. Reflective practice is incorporated as student teachers design approaches, strategies, and techniques that promote children's development and learning and evaluate their own progress as a teacher of young children. Guidance is provided under the supervision of Early Childhood Education (ECE) / Child Development (CD) faculty and other qualified early education professionals. This course is designed for students majoring in child development and those interested in the field.

FT; AA/AS; CSU.

CHIL 202 Administration of Early Childhood Programs

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: CHIL 101 with a Grade of "C" or better, or equivalent

CHIL 141 with a Grade of "C" or better, or equivalent

Advisory: CHIL 111 with a Grade of "C" or better, or equivalent

CHIL 121 with a Grade of "C" or better, or equivalent or CHIL 131 with a Grade of "C" or better, or equivalent
This course is an overview of early childhood education program administration. Topics include theoretical perspectives on early childhood education, licensing regulations, funding sources, budgetary considerations, personnel management, curriculum development, and teacher selection. The course meets State of California Title 22 licensing regulations for site supervisors. It also partially fulfills State of California matrix requirements for Program Director and Site Supervisor Permits. This course is intended for anyone seeking a position as a site supervisor or center director.

FT; AA/AS; CSU.

CHIL 210 Supervision of Early Childhood Programs

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: CHIL 141 with a Grade of "C" or better, or equivalent and CHIL 151 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for CHIL 201 or 201B
This course is a study of the supervisory tools and techniques required to organize and evaluate early childhood programs. Emphasis is placed on supervisory functions, in-service staff training, educational philosophies, program and staff evaluation, models of parent education and involvement, and supportive services. This course is designed for students who intend to go into supervisory positions in early childhood education. It partially fulfills the State of California Child Development Permit Matrix requirement for supervisors and directors and also meets the State of California Title 22 licensing regulations for directors.

FT; AA/AS; CSU.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

CHIL 215 Adult Supervision and Mentoring in Early Childhood Settings

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: CHIL 151 with a Grade of "C" or better, or equivalent

This course is a study of the methods and principles of supervising adults in early childhood settings. Students study effective models for guiding and evaluating adults, developing positive communication skills and recognizing the role of mentors in teaching environments. This course is designed for students who supervise other adults in classrooms while simultaneously providing appropriate settings for young children. It partially meets the requirements for the Master Teacher Permit, Site Supervisor, and Program Director permits issued by the California Commission on Teacher Credentialing.

CHIL 270 Work Experience

1-4 hours other; 1-4 units

Grading: Letter Grade Only

This course is for Child Development students to acquire on-the-job training within an early care and education facility and partially fulfills State of California Permit and Title 22 teacher requirements. One unit of credit may be earned for every 54 hours of work experience. A maximum of fourteen credit hours for all work experience subject areas may be earned during one enrollment period.

FT; AA/AS; CSU.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

CHIL 275 Supervised Field Study

1-3 hours other; 1-3 units

Grading: Letter Grade Only

Prerequisite: CHIL 120 with a Grade of "C" or better, or equivalent

CHIL 130 with a Grade of "C" or better, or equivalent

This directed field study course provides students with an opportunity to apply classroom information in a practical setting with supervision from faculty as well as fieldsite supervisors. This course is intended for students who plan to teach or supervise in early childhood settings. It partially fulfills Title 22 and the State of California Child Development Permit experience requirement.

FT; AA/AS; CSU.

CHIL 280 Environmental Rating Scale

16-18 hours lecture; 1 unit

Grading: Letter Grade Only

This course introduces the function of the Early Childhood Environmental Rating Scale (ECERS). The course focuses on the importance of the environment and interactions in early childhood programs. This course is intended for early childhood professionals currently working in the field as well as students seeking professional development, child development permits, and employment opportunities.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

CHIL 290 Independent Study

1-3 hours other; 1-3 units

Grading: Letter Grade Only

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is for students who wish to conduct additional research, a special project or learning activities in the field of child development. It is not intended to replace an existing course in the discipline. In this course students have a written contract with their instructor for activities such as: preparing problem analyses, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals.

FT; AA/AS; CSU.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

CHIL 291 Child Development Lab Practicum

1-4 hours lab; 1-4 units

Grading: Letter Grade Only

Advisory: CHIL 161 with a Grade of "C" or better, or equivalent

This course provides supervised practical experience at the campus child development lab to supplement child development courses and related curriculum. Through on-site training, students gain practical knowledge in curriculum development; guidance strategies; observation; and child growth and development. This course is intended for students who plan careers in early childhood education and family support agencies or for parents who seek strategies and techniques for guiding children. The course may be used toward the field experience component for the State of California Child Development Permit.

FT; AA/AS; CSU.

CHIL 291A Child Development Center Practicum

1 hour lab; 1 unit

Grading: Letter Grade Only

This course provides directed laboratory experience in the campus Child Development Center. Students become familiar with the operating policies and procedures of a preschool program and observe and access the development of children as they reference the participant handbook and describe the policies of the campus lab. This course may be used toward the experience component for the State of California Child Development Permit. It is intended for students who plan careers in early childhood and family support programs and for parents who seek practical experience in guiding and teaching children.

FT; AA/AS; CSU.

CHIL 291B Child Development Center Practicum

1 hour lab; 1 unit

Grading: Letter Grade Only

This course provides directed laboratory experience in the campus Child Development Center. Students examine children's development, their safety, health, and their nutritional needs in a preschool setting with an emphasis on implementation with young children. This course may be used toward the experience component for the State of California Child Development Permit and toward the Health and Safety training requirements for Title 22. It is intended for students who plan careers in early childhood education and family support programs and for parents who seek practical experience in guiding and teaching children.

FT; AA/AS; CSU.

CHIL 291C Child Development Center Practicum

1 hour lab; 1 unit

Grading: Letter Grade Only

This course provides directed laboratory experience in the campus Child Development Center. Emphasis is placed on early education teaching techniques and selection of curriculum activities for children that are developmentally appropriate. This course may be used toward the experience component for the State of California Child Development Permit. It is intended for students who plan careers in early childhood and family support programs and for parents who seek practical experience in guiding and teaching children.

FT; AA/AS; CSU.

CHIL 291D Child Development Center Practicum

1 hour lab; 1 unit

Grading: Letter Grade Only

This course provides directed laboratory experience in the campus Child Development Center. Students examine effective routines and transitional activities in the organization and structure of an early child development setting. The class emphasizes positive guidance techniques for young children, and the selection of equipment and materials for young children that are developmentally age appropriate. This course may be used toward the field experience component for the State of California Child Development Permit. It is intended for students who plan careers in early childhood and family support programs and for parents who seek practical experience in guiding and teaching children.

FT; AA/AS; CSU.

CISC-Computer and Information Sciences

CISC 150 Introduction to Computer and Information Sciences

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course is a survey of computers, computer systems and information sciences. Emphasis is placed on the use of computers in business and technical fields. Topics include computer equipment and programming systems, systems study, design, development, and implementation. The course also explores careers in the computer science field. This course is intended for all students interested in computers and how to use them.

FT; AA/AS; CSU.

CISC 179 Introduction to Python Programming

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade Only

Advisory: CISC 181 with a Grade of "C" or better, or equivalent

This is an introductory course in programming using the Python language and incorporating the fundamentals of object oriented programming. Topics include the use and programming of the mouse, windows, forms, menus, dialog boxes, icons, buttons, text fields, files, graphics, and other components of the Windows environment. Students learn to analyze user needs and requirements; design the user interface; assign properties to objects in the user interface; code event procedures; test and debug completed programs and applications; and complete final user documentation. This course is intended for Computer and Information Sciences majors or anyone interested in the Python programming language.

FT; AA/AS; CSU; UC.

CISC 181 Principles of Information Systems

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade Only

This course is an introduction to basic principles and theory relating to problem solving and analysis in business organizations using computers and software packages. Emphasis is placed on computer organization, data processing systems, decision support systems, and systems analysis. Business software is reviewed with an emphasis on spreadsheet systems including hands-on spreadsheet applications. This course is intended for the transfer student planning to major in business, economics, or social science.

FT; AA/AS; CSU; UC.

CISC 183 Web Development with Ruby on Rails

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade Only

Advisory: CISC 179 with a Grade of "C" or better, or equivalent or CISC 186 with a Grade of "C" or better, or equivalent or CISC 190 with a Grade of "C" or better, or equivalent or CISC 192 with a Grade of "C" or better, or equivalent

This course is an introduction to creating dynamic web applications that interact with databases using Ruby on Rails. Topics include development of both static and dynamic web pages, user interaction, as well as database connectivity. This course is designed for students who are interested in web application development.

FT; AA/AS; CSU.

CISC 186 Visual Basic Programming

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade Only

Prerequisite: CISC 181 with a Grade of "C" or better, or equivalent

This course is an introduction to programming using Visual Basic employing the fundamentals of event oriented programming in a Windows environment. Topics include the use and programming of a mouse, windows, forms, menus, dialog boxes, icons, buttons, text fields, files, graphics, and other components of a Windows environment in Visual Basic. This course is intended for students majoring in computer science or anyone interested in computer programming.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

CISC 187 Data Structures in C++

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade Only

Prerequisite: CISC 192 with a Grade of "C" or better, or equivalent

This course introduces students to data structures and object-oriented software engineering. Emphasis is placed on implementing basic data structures, including collections and linked structures (stacks, queues, lists, arrays, trees, and hash tables) from the perspective of object-oriented programming. Topics include algorithms, object-oriented analysis, and the design and implementation of data structures in C++. This course is designed for students majoring in computer information systems and professionals in the field who want to update their programming skills.

FT; AA/AS; CSU; UC; C-ID: COMP 132.

CISC 190 Java Programming

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade Only

Advisory: CISC 186 with a Grade of "C" or better, or equivalent or CISC 106 with a Grade of "C" or better, or equivalent or CISC 150 with a Grade of "C" or better, or equivalent or CISC 181 with a Grade of "C" or better, or equivalent or CISC 182 with a Grade of "C" or better, or equivalent

This course is an introduction to programming using Java. The course covers the fundamentals of object-oriented programming utilizing the Java programming language for general purpose business programs and interactive games. This course is intended for students majoring in computer and information sciences or anyone interested in the Java programming language.

FT; AA/AS; CSU; UC; C-ID: COMP 122.

CISC 191 Intermediate Java Programming

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade Only

Prerequisite: CISC 190 with a Grade of "C" or better, or equivalent

This course is an intermediate level study of the Java programming language. Topics include single and multidimensional arrays; objects and classes; object-oriented programming; inheritance and polymorphism; exception handling and text input/output (I/O); abstract classes and interfaces; graphical user interfaces (GUIs); recursion; concurrency; and generic collections and data structures, such as linked lists, queues, and stacks. This course is intended for students majoring in computer and information sciences or anyone interested in learning more about the Java programming language.

FT; AA/AS; CSU; UC; C-ID: COMP 132.

CISC 192 C/C++ Programming

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade Only

Advisory: CISC 186 with a Grade of "C" or better, or equivalent

This course presents basic programming concepts using the C++ programming language. The organization of standard Input/Output (I/O) classes is emphasized. Structured- and object-oriented programming techniques are presented and used to design and implement a variety of programming problems. This course is intended for students majoring in computer science or anyone interested in computer programming.

FT; AA/AS; CSU; UC.

CISC 193 Microsoft C# Software Engineering 1

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade Only

This course applies industry-standard software engineering principles to the study of the object-oriented, general purpose programming language Microsoft C#, a member of the Microsoft Visual Studio.NET software development toolset. Coverage includes the typical topics of an introductory programming course. Extensive hands-on training is included in the laboratory sessions. This course is designed for students pursuing a degree in Computer Science or Information Systems and for vocational/professional students who are updating their programming skills set.

FT; AA/AS; CSU; UC.

CISC 201 Advanced C++ Programming

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade Only

Prerequisite: CISC 192 with a Grade of "C" or better, or equivalent and CISC 205 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for CISC 196

This course is an advanced hands-on study of the C++ language programming best practices currently used in the industry. Emphasis is placed on generic programming through the use of templates and object-oriented programming. Robust and reliable coding practices are promoted through the disciplined use of exception handling and unit testing. This course is designed for computer science students and anyone interested in advancing their C++ programming skills.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

CISC 205 Object Oriented Programming using C++

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade Only

Prerequisite: CISC 192 with a Grade of "C" or better, or equivalent

This course introduces students to Object Oriented Programming (OOP) using the C++ programming language. Emphasis is placed on essential concepts related to OOP, including use of classes and objects, inheritance, templates, polymorphism, pointers and references, and input/output (I/O) streams. This course is intended for students majoring in computer information technology and all students interested in OOP.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

CISC 211 Computer Organization and Assembly Language

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade Only

Prerequisite: CISC 179 with a Grade of "C" or better, or equivalent or CISC 190 with a Grade of "C" or better, or equivalent or CISC 192 with a Grade of "C" or better, or equivalent or CISC 193 with a Grade of "C" or better, or equivalent

Advisory: MATH 116 with a Grade of "C" or better, or equivalent or MATH 141 with a Grade of "C" or better, or equivalent

This course is an introduction to the organization of modern digital computers and assembly language programming. Topics include language syntax; instruction set mnemonics; and segment, index, pointer, general purpose, and flag registers. A variety of memory addressing techniques are covered, as well as stack operations, particularly those associated with passing parameters to subroutine calls. Additional topics include machine architecture; memory addressing; input/output; interrupts; control structures; compiling; linking; and printer and disk interfaces. This course is intended for students majoring in computer and information sciences.

FT; AA/AS; CSU; UC; C-ID: COMP 142.

CISC 220 Fundamentals of Computer Game Programming

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade Only

Advisory: CISC 179 with a Grade of "C" or better, or equivalent or CISC 187 with a Grade of "C" or better, or equivalent or CISC 190 with a Grade of "C" or better, or equivalent or CISC 192 with a Grade of "C" or better, or equivalent or CISC 193 with a Grade of "C" or better, or equivalent

This course introduces software programmers to the design and development of simple graphical computer-based games. The course may use Java or C# as the programming language of choice. Emphasis is placed on developing games in a team environment, designing logical games that satisfy player needs, and ensuring that games are of high quality through use of software engineering best practices and proper testing. This course is for students with some previous software programming experience.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

CISC 221 Intermediate Computer Game Programming

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: CISC 220 with a Grade of "C" or better, or equivalent

This course covers the field of software game program development. Students work as a team to design and build a complex software game. Students learn more complex elements of game construction, constituent technologies that facilitate their development, and collaborative software development and integration methodologies. This course is designed for students interested in furthering their knowledge in software game development.

FT; AA/AS; CSU.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

CISC 246 Discrete Mathematics for Computer Science

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: CISC 106 with a Grade of "C" or better, or equivalent or CISC 179 with a Grade of "C" or better, or equivalent or CISC 187 with a Grade of "C" or better, or equivalent or CISC 190 with a Grade of "C" or better, or equivalent or CISC 192 with a Grade of "C" or better, or equivalent or CISC 193 with a Grade of "C" or better, or equivalent or CISC 201 with a Grade of "C" or better, or equivalent or MATH 107 with a Grade of "C" or better, or equivalent

Advisory: MATH 245 with a Grade of "C" or better, or equivalent

This is a course in discrete mathematics to include concepts and techniques in practical and theoretical computer science, and related disciplines. Topics include graph theory, algebras, probability theory, complexity analysis and models of computation. This course is intended for transfer students planning to major in computer science.

FT; AA/AS; CSU; UC; C-ID: COMP 152.

CISC 270 Work Experience

1-4 hours other; 1-4 units

Grading: Letter Grade Only

Limitation on Enrollment: Obtain Permission Number-Work Exp. Coordinator

This course provides on-the-job learning experiences for students employed in a job or internship related to an occupational major. Students develop workplace competencies, critical thinking skills, and problem solving abilities through the creation and achievement of job-related behavioral learning objectives. One unit of credit may be earned for every 54 hours of work experience. A maximum of fourteen credit hours for all work experience subject areas may be earned during one enrollment period. This course is intended for students majoring or interested in an occupational field of study.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

CISC 290 Independent Study

1-3 hours other; 1-3 units

Grading: Letter Grade Only

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is for students who wish to conduct additional research, special problems or projects, or other learning activities in the field of computer and information sciences. It is not intended to replace an existing course in the discipline. In this course students have a written contract with their instructor for activities such as: problem analyses, engaging in primary research, and preparing reports.

CISC 450 Security Analytics and Visualization

36-40.5 hours lecture/0.8 hours lab; 3 units

Grading: Letter Grade Only

Prerequisite: CISC 179 with a Grade of "C" or better, or equivalent

Corequisite: Completion of or concurrent enrollment in: MATH 119 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Special Admission - must be admitted to program.

This course is a study of the process of using data collection, aggregation, and analysis tools for security monitoring and threat detection. Emphasis is placed on essential technical knowledge used for predictive analytics and the visualization of information to detect behaviors that indicate malicious activity. Topics include predictive modeling, data analytics, machine learning, automation, and understanding data through graphical representation. This course is designed for students in the Cyber Defense and Analysis program.

COMM-Communication Studies

For additional Communication Studies classes see COMS

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

COMM C1000 Introduction to Public Speaking

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for COMS 103
Part 1 (Identical): In this course, students learn and apply foundational rhetorical theories and techniques of public speaking in a multicultural democratic society. Students discover, develop, and critically analyze ideas in public discourse through research, reasoning, organization, composition, delivery to a live audience and evaluation of various types of speeches, including informative and persuasive speeches. Part 2 (Local): This course also includes an introduction to the rhetorical tradition of oral communication, emphasizing research, writing, and verbal and nonverbal messages. Communication theory is explored and applied to various live presentations using a variety of organizational contexts. This course is designed for communication studies majors and anyone interested in argumentation and the development of critical thinking skills. (Formerly COMS 103).

FT; AA/AS; CSU; UC; C-ID: COMM 110.

COMS-Communication Studies

COMS 103 Oral Communication see COMM C1000 Introduction to Public Speaking

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

COMS 101 Voice and Articulation

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for SPEE 101
This course is designed to improve vocal production and the articulation, enunciation, and pronunciation of words. Emphasis is placed on sound production, voice quality, volume, pitch and expressiveness. This course is intended for communications studies majors and anyone involved in theatre, sales, public services or other professions.

FT; AA/AS; CSU; UC.

COMS 104 Advanced Public Communication

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: COMS 103 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for SPEE 104
This course covers theory, practice, and critical analysis of public communication, including speeches on subjects of current interest both local and global. It includes an introduction to the relationship between rhetorical theory and criticism and rhetorical practice in public communication. Special emphasis is placed on advanced platform speaking and limited preparation speaking. This course is designed for students majoring in communication studies or anyone interested in advancing fundamental speech skills.

FT; AA/AS; CSU; UC.

COMS 111 Oral Interpretation**48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for SPEE 111

This course is a practical study of the art of oral interpretation. Emphasis is placed on developing a foundation for critical analyses of literature in order to enhance spoken interpretation of prose, poetry, dramatic monologue and duo. This course is designed for communication studies and drama majors as well as anyone interested in improving their oratory skills.

COMS 135 Interpersonal Communication**48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Limitation on Enrollment:** This course is not open to students with previous credit for SPEE 135

This course is a study of effective interpersonal skill development and practice in oral and written communication. Emphasis is placed on the personal, situational, and cultural influences of interaction. Topics include human perception, interpersonal dynamics, listening, conflict management, and verbal and nonverbal symbol systems. The course is intended for students who communicate in one-on-one situations, including communication, fashion, allied health, public service, and business majors as well as those interested in further development of effective interpersonal skills in work, volunteer, and personal environments.

FT; AA/AS; CSU; UC; C-ID: COMM 130.**COMS 160 Argumentation and Critical Thinking****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for SPEE 160

This course is a study of argumentation and development of critical thinking through the oral tradition and written composition. Emphasis is placed on research, analysis of propositions, testing of evidence, construction of the brief, and preparation for presentation of constructive and refutation cases. Students locate, evaluate, and integrate outside sources into progressively complex writing assignments for a total of at least 6,000 words for the semester. This course is designed for communication studies majors and anyone interested in argumentation and the development of their critical thinking skills.

FT; AA/AS; CSU; UC; C-ID: COMM 120.**COMS 170 Small Group Communication****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** COMS 103 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for SPEE 170

This course is a study of the concepts and theories related to group formation and development, and basic group communication dynamics. Students lead and participate in various forms of group discussion and activities. This course is designed for communication studies and business majors as well as for anyone interested in working effectively in small group settings.

FT; AA/AS; CSU; UC; C-ID: COMM 140.**COMS 180 Intercultural Communication****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Limitation on Enrollment:** This course is not open to students with previous credit for SPEE 180

This course is a study of communication between members of diverse cultures. This study includes how cultures, cultural identity, languages, and social patterns affect communication between ethnic and cultural groups. Topics include interdependency in global society, verbal and nonverbal language systems, conflict styles, and contextual cultural implications. Students apply the principles of intercultural communication to contemporary cultural and global communication issues. This course is designed for communications majors and all students interested in developing intercultural communication skills.

FT; AA/AS; CSU; UC; C-ID: COMM 150.**COMS 201 Communication and Community****48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Prerequisite:** COMS 103 with a Grade of "C" or better, or equivalent

This course is an overview of the academic discipline of Communication Studies, including its history, methods, processes, contexts, and fields of study. Other topics include basic models of communication, communication-related career fields, and health communication. This course is intended for Communication Studies majors or prospective majors.

FT; AA/AS; CSU; UC.

COMS 290 Independent Study

1-3 hours other; 1-3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is not open to students with previous credit for SPEE 290

This course is for students who wish to conduct additional research, a special project, or learning activities in a specific discipline/subject area and is not intended to replace an existing course in the discipline. In this course students will have a written contract with their instructor for activities such as: preparing problem analysis, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals.

FT; AA/AS; CSU.

CONS-Construction Systems

CONS 60A Construction Systems - Introduction to HVAC I

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Advisory: ENGL 049 with a Grade of "C" or better, or equivalent or Milestone W50 and ENGL 048 with a Grade of "C" or better, or equivalent or Milestone R50

Limitation on Enrollment: This course is not open to students with previous credit for HVAC 301

In this course, trade mathematics and drawings, the tools of the trade, blueprint terminology and basic rigging equipment and procedures as applicable to HVAC are covered. This course is designed to give the construction HVAC student an understanding of copper and plastic piping practices.

FT; AA/AS.

CONS 60B Construction Systems - Introduction to HVAC II

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Prerequisite: CONS 60A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for HVAC 302

This course introduces the construction HVAC trainee to the basic concepts and environmental concerns related to heating, ventilation and air conditioning, including: soldering, brazing, ferrous metal piping practices, basic electricity, heating and cooling. This course also describes the HVAC program and the career opportunities available in the HVAC trade.

FT; AA/AS.

CONS 61A Construction Systems - Intermediate HVAC I

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Prerequisite: CONS 60B with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for HVAC 303

This course instructs the HVAC trainee in the properties of air, and covers chimneys, flues and vents. Students are introduced to basic mechanical procedures commonly performed in HVAC service work, such as the operation, installation and servicing of electric furnaces. This course also introduces the student to alternating current and electronic components and circuits used in HVAC systems.

FT; AA/AS.

CONS 61B Construction Systems - Intermediate HVAC II

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Prerequisite: CONS 61A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for HVAC 304

This course instructs the HVAC trainee in HVAC controls and metering devices and introduces the trainee to control circuit analysis. This course also covers compressors and heat pumps and instructs the student in leak detection, evacuation, recovery and charging service procedures used to troubleshoot, repair and/ or maintain proper operation of the mechanical refrigeration system.

FT; AA/AS.

CONS 62A Construction Systems - Advanced HVAC I

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Prerequisite: CONS 61B with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for HVAC 305

This course instructs the HVAC trainee in preventive maintenance and provides an introduction to troubleshooting applying to all types of HVAC equipment. This course also covers troubleshooting electronic controls, gas heating, electric heating and oil heating.

FT; AA/AS.

CONS 62B Construction Systems - Advanced HVAC II

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Prerequisite: CONS 62A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for HVAC 306

This course instructs the HVAC trainee in troubleshooting cooling, accessories, heat pumps and commercial heating and cooling systems. This course also covers water and air balance, steam systems and customer relations.

FT; AA/AS.

CONS 63A Construction Systems - HVAC Specialties I

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Prerequisite: CONS 62B with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for HVAC 307

This course covers advanced blueprint reading and specifications as they relate to HVAC, indoor air quality and energy conservation equipment commonly used in HVAC systems. This course also covers energy management systems and the methods of water treatment and water treatment equipment used with HVAC systems.

FT; AA/AS.

CONS 63B Construction Systems - HVAC Specialties II

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Prerequisite: CONS 63A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for HVAC 308

This course covers commercial heating and cooling systems, maintenance of these systems and system start-up and shut down. This course also covers commercial and industrial refrigeration systems, equipment, refrigerated warehouses, walk-in coolers display cases, etc.

FT; AA/AS.

CONS 70A Construction Systems - Introduction to Low Voltage Building Systems I

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Advisory: ENGL 049 with a Grade of "C" or better, or equivalent or Milestone W50 and ENGL 048 with a Grade of "C" or better, or equivalent or Milestone R50

Limitation on Enrollment: This course is not open to students with previous credit for CEST 301A

This course provides the Construction Systems - Low Voltage Building Systems student with instruction in general construction site safety, measurements and formulas, use of hand and power tools, interpretation of blueprints, basic rigging techniques and methods used to move equipment and materials.

FT; AA/AS.

CONS 70B Construction Systems - Introduction to Low Voltage Building Systems II

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Prerequisite: CONS 70A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for CEST 301B

This course provides the Construction Systems - Low Voltage Building Systems student with instruction in industry standards and building codes, residential and commercial construction methods, basic electrical theory, electrical meters, OSHA safety standards, and ladders and rigging.

FT; AA/AS.

CONS 71A Construction Systems - Intermediate Low Voltage Building Systems I

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Prerequisite: CONS 70B with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for CEST 302A

This course provides the Construction Systems - Low Voltage Building Systems student with instruction in mathematics related to the trade, electronic theory, electronic measurement tools and techniques, AC and DC electrical systems and grounding, and blueprint reading related to the trade.

FT; AA/AS.

CONS 71B Construction Systems - Intermediate Low Voltage Building Systems II

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Prerequisite: CONS 71A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for CEST 302B

This course provides the Construction Systems - Low Voltage Building Systems student with instruction in types of cabling, switches and relays, terminating conductors, low-voltage codes and standards, and computer cabling applications.

FT; AA/AS.

CONS 72A Construction Systems - Advanced Low Voltage Building Systems I

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Prerequisite: CONS 71B with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for CEST 303A

This course provides the Construction Systems - Low Voltage Building Systems student with instruction in wire and cable selection, advanced buses and networks, fiber optic installation, cable and satellite television systems, and wireless communications.

FT; AA/AS.

CONS 72B Construction Systems - Advanced Low Voltage Building Systems II

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Prerequisite: CONS 72A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for CEST 303B

This course provides the Construction Systems - Low Voltage Building Systems student with instruction in site survey, job planning and documentation, maintenance and repair, supervision, and fire and security alarm systems.

FT; AA/AS.

COSM-Cosmetology

COSM 50L Fundamentals of Cosmetology**16-18 hours lecture/5 hours lab; 6 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for COSM 110, COSM 110A and COSM 110B, COSM 50LA and COSM 50LB, or COSM 040

Special Admission - must be admitted to program.

Obtain Permission Number from Instructor

This lecture-lab course provides an integration of theoretical and practical principles and procedures at the fundamental level. Emphasis is placed on bacteriology, safety, sanitation, sterilization, preparing the work area and kit, and rules and regulations as required for the licenser in the state of California. Topics include draping, shampooing, conditioning, haircutting, wet hairstyling, manicuring, pedicuring, and facials. This course is for students interested in becoming a cosmetologist and is intended to prepare them for the California State Board of Barbering and Cosmetology licensure.

FT; AA/AS.**COSM 55 Esthetician I****40-45 hours lecture; 2.5 units****Grading:** Letter Grade Only**Corequisite: Completion of or concurrent enrollment in:** COSM 55L with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** Special Admission - must be admitted to program.

This course is an introduction to the theoretical knowledge required to enter the field of esthetics as a licensed esthetician. Emphasis is placed on the basic sciences of physiology, chemistry, and electricity as they apply to skin science, skin care, and professional esthetics. Topics include career and licensure planning and the fundamentals of the salon business, skin care products, and esthetic services. This course is designed for students interested in esthetics or a career as a licensed professional in the industry.

FT; AA/AS.**COSM 55L Esthetician I Lab****6.5 hours lab; 6.5 units****Grading:** Letter Grade Only**Corequisite: Completion of or concurrent enrollment in:** COSM 55 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** Special Admission - must be admitted to program.

This laboratory course is an introduction to the practical knowledge, skills, and techniques required to enter the field of esthetics as a licensed esthetician. Emphasis is placed on applying basic principles of physiology, chemistry, electricity, and skin science to practice in client consultations, skin analyses, product assessments, facial treatments, and other basic professional esthetic services. Topics include establishing basic esthetic professionalism and performing fundamental esthetic services. This course is designed for students interested in esthetics or a career as a licensed professional in the industry.

FT; AA/AS.**COSM 60L Intermediate Cosmetology****16-18 hours lecture/5 hours lab; 6 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for COSM 120, COSM 120A and COSM 120B, COSM 60LA and COSM 60LB or COSM 42A

Obtain Permission Number from Instructor

Special Admission - must be admitted to program.

This lecture-lab course provides an integration of theoretical and practical principles and procedures at the intermediate level. Emphasis is placed on sanitation, safety, client protection, and demonstrations and hands-on work with models. Topics include razor cutting, basic hair coloring techniques, chemical texture services, manicure tips, and thermal styling as well as hair removal, including eyebrow waxing and arching. This course is for students interested in becoming a cosmetologist and is intended to prepare them for the California State Board of Barbering and Cosmetology licensure.

FT; AA/AS.

COSM 65 Esthetician II

40-45 hours lecture; 2.5 units

Grading: Letter Grade Only

Prerequisite: COSM 55 with a Grade of "C" or better, or equivalent

Corequisite: Completion of or concurrent enrollment in: COSM 65L with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Special Admission - must be admitted to program.

This course is a continuation of the theoretical knowledge required to enter the field of esthetics as a licensed esthetician. Emphasis is placed on an in-depth examination of the body and its systems as they relate to skin health, intermediate esthetic techniques, speciality facials and devices, spa and alternative therapies, and medical esthetics. Topics include analyses of skin care products, botanicals and aromatherapy, Ayurveda theory and treatments, and business and marketing skills required in the esthetician field. This course is designed for students interested in esthetics or a career as a licensed professional in the industry.

FT; AA/AS.

COSM 65L Esthetician II Lab

6.5 hours lab; 6.5 units

Grading: Letter Grade Only

Prerequisite: COSM 55L with a Grade of "C" or better, or equivalent

Corequisite: Completion of or concurrent enrollment in: COSM 65 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Special Admission - must be admitted to program.

This laboratory course is a continuation of the fundamental knowledge, skills, tools, and techniques required to enter the field of esthetics as a licensed esthetician. Emphasis is placed on applying the in-depth knowledge of the body and its systems as they relate to skin health to practice intermediate esthetic techniques, specialty facials and devices, spa and alternative therapies, and medical esthetics. Topics include practice with skin care products, botanicals and aromatherapy, Ayurveda theory and treatments, and business and marketing skills required in the esthetician field. This course is designed for students interested in esthetics or a career as a licensed professional in the industry.

FT; AA/AS.

COSM 70L Intermediate-Advanced Cosmetology

16-18 hours lecture/5 hours lab; 6 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for Cosmetology 42B, Cosmetology 130, Cosmetology 130A and Cosmetology 130B, Cosmetology 70LA and 70LB or Cosmetology 42B. Obtain Permission Number from Instructor

Special Admission - must be admitted to program.

This lecture-lab course provides an integration of theoretical and practical principles and procedures at the intermediate-advanced level. Emphasis is placed on sanitation, safety, client protection, and chemical services on clients. Topics include clipper cutting, advanced long hair dressing, hair extensions, permanent wave, soft curl permanent waving, chemical straightening, thermal pressing and curling, advanced chemical hair coloring techniques, including weaving, low-lighting, and balayage, acrylic and gel nail techniques, as well as makeup application, including lash application techniques and eyebrow and lash tinting. This course is for students interested in becoming a cosmetologist and is intended to prepare them for the California State Board of Barbering and Cosmetology licensure.

FT; AA/AS.

COSM 75 Advanced Makeup

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is a study in advanced makeup application techniques. Emphasis is placed on makeup history and the use of makeup for different occasions. Topics include advanced makeup application, eyelash enhancement, and airbrushing. This course is intended for students majoring in cosmetology, esthetics, dramatic arts, and anyone interested in advanced makeup techniques.

FT; AA/AS.

COSM 80L Advanced Cosmetology
16-18 hours lecture/5 hours lab; 6 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for COSM 140, COSM 140A and COSM 140B, COSM 80LA and COSM 80LB or 42C. Obtain Permission Number from Instructor. Special Admission - must be admitted to program. This lecture-lab course provides an integration of theoretical and practical principles and procedures at the advanced level. Emphasis is placed on sanitation, safety, client protection, advanced services on clients, and marketing strategies to support professional and employment goals. Topics include total looks, preparing for state board licensing, and compiling a portfolio of personal work. This course is for students interested in becoming a cosmetologist and is intended to prepare them for the California State Board of Barbering and Cosmetology licensure.

FT; AA/AS.

COSM 83 Barbering Conversion
32-36 hours lecture/4 hours lab; 6 units

Grading: Letter Grade Only

Limitation on Enrollment: Obtain Permission Number from Instructor

This course focuses on technical instruction and practical training in barbering. Emphasis is placed on hair dressing, health and safety, and shaving. This course is intended for students majoring in cosmetology and barbering. Students who complete this course are eligible to apply for the California State Board of Barbering and Cosmetology Barber licensing exam.

FT; AA/AS.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

COSM 85 Nail Technician I
24-27 hours lecture/4 hours lab; 5.5 units

Grading: Letter Grade Only

This lecture-lab course provides an integration of theoretical and practical principles and procedures at the fundamental level. Emphasis is placed on bacteriology, infection control, safety practices, preparing the work area and kit, and rules and regulations as required for the licenser in the state of California. Topics include basic anatomy of the hand, foot, and nails, reflexology, and manicuring and pedicuring fundamentals to include client consultation, massage, and the use of nail equipment and implements. This course is designed for students interested in nail technology or a career as a licensed professional in the industry.

FT; AA/AS.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

COSM 86 Nail Technician II
24-27 hours lecture/4 hours lab; 5.5 units

Grading: Letter Grade Only

Prerequisite: COSM 85 with a Grade of "C" or better, or equivalent

This lecture-lab course provides an integration of theoretical and practical principles and procedures at the intermediate level. Emphasis is placed on the in-depth examination of the chemistry of skin and nails and its systems as they relate to skin and nail health, infection control, safety protocols, and manicuring and pedicuring services to include nail enhancements and nail art and trends. Topics include analysis of chemicals, ingredients, and solutions used in the industry as well as business and marketing skills required to be a self-employed or employed nail technician. This course is designed for students interested in nail technology or a career as a licensed professional in the industry.

FT.

COSM 92 Extended Laboratory Practice

1-3 hours lab; 1-3 units

Grading: Pass/No Pass Only

Prerequisite: COSM 80L with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is continued laboratory practice for advanced cosmetology students who need to complete the number of hours mandated for examination and for licensure by the California State Board of Cosmetology. Emphasis is placed on client services (including chemical and non-chemical services) and an exploration of all types of hair texture. Topics include communication skills, professionalism and support in student employment goals. This course is designed for students planning a career as a licensed, professional Cosmetologist.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

COSM 93 Esthetician Extended Lab

1 hour lab; 1 unit

Grading: Letter Grade Only

Prerequisite: COSM 65 with a Grade of "C" or better, or equivalent and COSM 65L with a Grade of "C" or better, or equivalent

This is a laboratory course for intermediate esthetician students who need to complete the number of hours mandated for examination and licensure by the California State Board of Cosmetology. Emphasis is placed on applying intermediate esthetic techniques on salon and spa clients. Topics include practice in client consultations, skin care products assessments, facial treatments, hair removal, makeup application, and business and marketing skills required in the esthetician field. This course is designed for students interested in esthetics or a career as a licensed professional in the industry.

FT; AA/AS; CSU.

COSM 94A Cosmetology Teacher Training Program I

56-63 hours lecture/1 hour lab; 4.5 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Student must have a valid California Cosmetology License.

This course is not open to students with previous credit for COSM 152A or COSM 91A

This course is offered for the experienced/licensed cosmetologist to become a qualified cosmetology instructor. Training for the course consists of practical and theoretical principles of effective teaching methods, which include lesson planning, oral presentations, evaluations, test construction, and procedures to ensure environmental health and safety. Emphasis is focused on preparation for prospective employment in private and public cosmetology schools.

FT; AA/AS.

COSM 94B Cosmetology Teacher Training Program II

56-63 hours lecture/1 hour lab; 4.5 units

Grading: Letter Grade Only

Prerequisite: COSM 94A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Student must have a valid California Cosmetology License.

This course is not open to students with previous credit for COSM 152B or COSM 91B

This course is offered for the experienced/licensed cosmetologist to become a qualified cosmetology instructor. Phase II of the Cosmetology Teacher Training program provides the trainee with an opportunity to acquire additional skills, expand career options, workplace skill competencies, and subject mastery skills necessary for teaching the practical aspects of cosmetology science. Emphasis is focused on preparation for prospective employment in private and public cosmetology schools.

COSM 290 Independent Study

1-3 hours other; 1-3 units

Grading: Letter Grade Only

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is designed to deal with current problems and topics of special interest in cosmetology.

CRES-Conflict Resolution

CRES 101 Conflict Resolution and Mediation

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course explores conflict resolution and mediation in an interdisciplinary manner by an analysis of how conflict is generated, escalated, resolved and transformed in various settings. Students explore theories of conflict resolution and mediation and apply these fundamental concepts in interpersonal and intergroup conflicts. Emphasis is placed upon allowing the students to assess and improve their own ways of responding to conflict by the study and practice of various processes of conflict intervention. This course is intended for students interested in Conflict Resolution and Mediation, Communication Studies, Anthropology, Social Services, Counseling, Human Services, Peace Studies, Psychology, Business, Sociology and other related fields.

FT; AA/AS; CSU; UC.

CRES 102 Mediation Skills

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

Advisory: Completion of or concurrent enrollment in:

CRES 101 with a Grade of "C" or better, or equivalent
This introductory course is designed to provide students with the framework and analytical skills needed to conduct mediation. Mediation is a process by which parties submit their dispute to a neutral third party who works with them to reach a mutually agreeable settlement. Emphasis is placed on the mediation process, the role of the mediator, communication and listening skills, and the human dynamics of conflict. The role of the mediator is to assist disputing parties in reaching a peaceful, just and equitable resolution to a conflict. This course is intended for students interested in Conflict Resolution and Mediation, Communication Studies, Anthropology, Counseling, Peace Studies, Psychology, Business, Sociology and other related fields.

FT; AA/AS; CSU.

CRES 276 Field Work in Conflict Resolution and Mediation

32-36 hours lecture/1 hour other; 3 units

Grading: Letter Grade Only

Corequisite: Completion of or concurrent enrollment

in: CRES 101 with a Grade of "C" or better, or equivalent and CRES 102 with a Grade of "C" or better, or equivalent

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This supervised field work course enables students to gain first hand experience in Conflict Resolution and Mediation. Students develop professional skills while contributing their time and talents to a local organization thus enhancing the students' resume and work experience. Emphasis is placed on providing students with the chance to explore the various career choices through placement in a professional setting working in the field of Conflict Resolution and Mediation. Students meet regularly with faculty and peers to receive feedback, support and guidance in their community projects. This course is intended for students interested in Conflict Resolution and Mediation.

FT; AA/AS; CSU.

CYDA: Cyber Defense and Analysis

CYDA 400 Emerging Technology and Cybersecurity

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: Special Admission - must be admitted to program.

This course is an exploratory study of new, emerging, and developing technologies in cyber defense operations. Emphasis is placed on both operational theory and designing and deploying technological solutions to combat evolving cyber threats. Topics include Zero Trust and Secure Access Service Edge (SASE) architectures, Artificial Intelligence (AI) and Machine Learning (ML), Automation, 5G networks, and Internet of Things (IoT). This course is designed for students in the Cyber Defense and Analysis program.

FT; AA/AS; CSU.

CYDA 410 Modern Cryptography

36-40.5 hours lecture/0.8 hours lab; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: Special Admission - must be admitted to program.

This course is a study of the theoretical foundations of cryptosystems used in the real world. Emphasis is placed on common cryptographic objects to get a better understanding of various cryptographic primitives, algorithms, attacks, and protocols. Topics include an introduction to classic cryptography, properties of private key (symmetric) and public key (asymmetric) cryptography, hashing, and digital signature schemes. This course is designed for students in the Cyber Defense and Analysis program.

CYDA 420 Applied Network Security Monitoring (NSM)

36-40.5 hours lecture/0.8 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: Special Admission - must be admitted to program.

This course is a study of the process of ingesting, storing, and interpreting data collected and generated by computer network systems. Emphasis is placed on the analysis of data and practices associated with management of system information and event logs from a security perspective. Topics include network security monitoring (NSM), security information and event management (SIEM) technology, logging implementation, management, and retention, continuous monitoring (CM) and threat modeling as well as data analysis for identifying, responding to, and preventing attacks. This course is designed for students in the Cyber Defense and Analysis program.

FT; AA/AS; CSU.

CYDA 430 Applied Intrusion Detection and Analysis

36-40.5 hours lecture/0.8 hours lab; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: Special Admission - must be admitted to program.

This course is a hands-on study of methodologies used to analyze network traffic in order to identify intrusions. Emphasis is placed on the theoretical and practical analysis of network activity to deem if it is noteworthy or a false indication of breach. Topics include common application protocols, analyzing network behavior to detect breaches, strengths and limitations of intrusion detection systems (IDS) and other monitoring tools as well as visualizing data traffic to identify patterns and anomalies. This course is designed for students in the Cyber Defense and Analysis program.

FT; AA/AS; CSU.

CYDA 440 Deconstructing Malware

36-40.5 hours lecture/0.8 hours lab; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: Special Admission - must be admitted to program.

This course is a hands-on study of methodologies used to reverse-engineer malicious software (malware). Emphasis is placed on the analytical ability to examine inner workings of malware in the context of forensic investigations, incident response, and systems administration. Topics include data files and browser scripts analysis, fundamental behavioral analysis of memory forensics and malware code, and concepts for reverse engineering common malware. This course is designed for students in the Cyber Defense and Analysis program.

FT; AA/AS; CSU.

CYDA 450 Network Forensics

36-40.5 hours lecture/0.8 hours lab; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: Special Admission - must be admitted to program.

This course is a hands-on study of methodologies used in network forensics examinations. Emphasis is placed on building practical experience through virtual lab exercises simulating real-world scenarios covering investigation and data recovery in networks. Topics include physical interception, traffic acquisition and analysis, and wireless attacks. This course is designed for students in the Cyber Defense and Analysis program.

FT; AA/AS; CSU.

CYDA 460 Digital Forensics

36-40.5 hours lecture/0.8 hours lab; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: Special Admission - must be admitted to program.

This course is a theoretical and practical study of methodologies used to conduct forensics examinations of digital and mobile devices. Emphasis is placed on comprehensive knowledge of digital forensics and adherence to the law. Topics include techniques used in digital investigations, root cause analysis, collection and documentation of relevant information, and legal compliance. This course is designed for students in the Cyber Defense and Analysis program.

FT; AA/AS; CSU.

CYDA 500 Cyber Incident Response

36-40.5 hours lecture/0.8 hours lab; 3 units

Grading: Letter Grade Only

Prerequisite: CYDA 450 with a Grade of "C" or better, or equivalent and CYDA 460 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Special Admission - must be admitted to program.

This course is a hands-on study of methodologies used in responding to cyber incidents. Emphasis is placed on the analytical ability to identify assets and resolve network and host cybersecurity issues by applying knowledge and skills required of a cybersecurity first responder. Topics include asset identification, security control implementation, event detection and response execution, and incident and disaster recovery. This course is designed for students in the Cyber Defense and Analysis program. (Prep for CFR - DoD 8140/8570.01-M)

FT; AA/AS; CSU.

CYDA 510 Disaster Response and Recovery

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: Special Admission - must be admitted to program.

This course is a project-based study of methodologies used to ensure business continuity and protect vital operations, facilities, and assets. Emphasis is placed on the skills needed to identify mission-critical continuity needs and develop a disaster recovery plan (DRP) to protect an organization from constant risk of disruption from cyber threats. Topics include evaluating risks and conducting business impact analysis (BIA), developing and implementing a DRP, crisis management and emergency operations as well as critical infrastructure and vital records recovery. This course is designed for students in the Cyber Defense and Analysis program.

FT; AA/AS; CSU.

CYDA 520 Cyber Threat Intelligence (CTI)

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: Special Admission - must be admitted to program.

This course is an interactive study of data an organization uses to understand the previous, current, and future threats targeting an organization. Emphasis is placed on theoretical and practical skills to conduct a threat intelligence program. Topics include organizational strategy and planning; data collection, analysis, and threat extractions; and informational sharing and situational awareness. This course is designed for students in the Cyber Defense and Analysis program.

CYDA 530 Advanced Security Implementation and Management

36-40.5 hours lecture/0.8 hours lab; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: Special Admission - must be admitted to program.

This course is a hands-on study of methodologies used in the assessment and management of risk to data and information systems. Emphasis is placed on deep technical and managerial knowledge and skills to design, develop, and manage an organization's overall security posture. Topics include security and risk management, asset security, security architecture and engineering, communication and network security, identity and access management (IAM), Security Assessment and Testing, and Security Operations as well as software development security. This course is designed for students in the Cyber Defense and Analysis program. (Prep for CISSP - DoD 8140/8570.01-M)

FT; AA/AS; CSU.

CYDA 540 Critical Infrastructure and Supply Chain Protection

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: Special Admission - must be admitted to program.

This course is a study of theories and foundations used to achieve and assess the protection of critical infrastructure and supply chain operations. Emphasis is placed on the optimization of resources to protect key infrastructure components of a nation. Topics include network science, complexity theory, risk analysis, modeling and simulation, and individual sectors. This course is designed for students in the Cyber Defense and Analysis program.

FT; AA/AS; CSU.

CYDA 550 Systems and Network Auditing

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: Special Admission - must be admitted to program.

This course is an interactive study of the application of a risk-based approach to planning, executing, and reporting on audit engagements. Emphasis is placed on the skills needed to audit, control, monitor, and assess an organization's information technology (IT) and business systems. Topics include information systems (IS) auditing process; IT governance; IS acquisition, development, and implementation; operations and business resilience; and protection of information assets. This course is designed for students in the Cyber Defense and Analysis program. (Prep for CISA - DoD 8140/8570.01-M)

FT; AA/AS; CSU.

CYDA 560 Operational Security Architecture

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: Special Admission - must be admitted to program.

This course is an in-depth study of methodologies used to design advanced security solutions using risk-based analytics. Emphasis is placed on the alignment of security architectures within the organizational context. Topics include governance, compliance, and risk management; security architecture modeling; infrastructure security; identity and access management; application security; and security operations. This course is designed for students in the Cyber Defense and Analysis program. (Prep for CISSP-ISSAP - DoD 8140/8570.01-M)

FT; AA/AS; CSU.

CYDA 570 Cyber Defense and Analysis Capstone

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: Special Admission - must be admitted to program.

This project-oriented capstone course allows students to demonstrate their capability to detect, respond, and recover from a cyber incident. The instructor-approved project challenges students to integrate skills and knowledge from all program domains into one project that deals with a significant real-world cybersecurity incident. Students present their projects to a panel. This course is designed for students in the Cyber Defense and Analysis program.

DANC-Dance

DANC 111 Global Dance Traditions

24-27 hours lecture/0.5 hours lab; 2 units

Grading: Letter Grade or Pass/No Pass

This course is an introduction to multiple cultures and global dance traditions. Each tradition is examined in terms of its particular set of techniques, styles, and rhythms. Special emphasis is placed on the exploration of movement characteristics of each cultural dance form. This course is intended for dance majors and minors as well as anyone interested in dance.

FT; AA/AS; CSU; UC.

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DANC 112A Ballet I

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for DANC 110 or DANC 110A.

Ballet I is a course in fundamental ballet technique focusing on correct body alignment and placement through warm-up, alignment, barre and center exercises in preparation for ballet movements. Students analyze, discuss, and critique the intent, movement, performance and theatrical elements of ballet movements at a fundamental level. This course is designed for dance majors and all students interested in Ballet.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 112B Ballet II

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Advisory: DANC 112A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DANC 110B.

Ballet II is a course in beginning ballet technique focusing on correct body alignment and placement through repetition at warm-up, alignment, barre and center exercises in preparation for ballet movements. Students analyze ballet dance in comparison to another dance genre, regarding thematic content or intent, music, and theatrical elements. This course is designed for dance majors and all students interested in Ballet.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 112C Ballet III

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Advisory: DANC 112B with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DANC 110C.

Ballet III is a course in intermediate ballet technique focusing on correct body alignment and placement through repetition at barre, en diagonale, and center work including movement initiation and weight change. Students analyze, discuss, and critique ballet in regards to the thematic content or intent, choreographic creativity and movement, dancer's performance abilities, and theatrical elements. This course is designed for dance majors and all students interested in Ballet.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 112D Ballet IV

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Advisory: DANC 112C with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DANC 110D.

Ballet IV is a course in Intermediate/Advanced ballet technique focusing on correct body alignment and placement through repetition at barre, en diagonale, and center work with an elevated level of various musical and movement textures, complex rhythms and emotional performance qualities. Students analyze, discuss, and critique ballet in regards to the thematic content or intent, choreographic creativity and movement, dancer's technical and performance abilities, choreographic structure, lighting design, music or sound design, mood conveyed and audience response. This course is designed for dance majors and all students interested in Ballet.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 117A Tap Dance I

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for DANC 115 or DANC 115A.

This course introduces tap dance technique at the fundamental level. Instructions focuses on vocabulary, rhythms, balance studies and improvisations through warm-up, center floor combinations, rhythmic pattern exercises, in preparation for fundamental tap dance. Students explore and analyze dance styles, thematic content or intent, and theatrical elements at a fundamental level. This course is designed for dance and theater majors and all students interested in tap dance.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 117B Tap Dance II

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Advisory: DANC 117A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DANC 115B

This course introduces tap dance technique at the beginning level. Instructions focuses primarily on the rhythm tap style however, other tap styles are explored. Students practice beginning tap dance skills; rhythms, including swing and Latin; syncopation; time steps; short combinations; and stylings. The course includes an introduction to the history and performance of tap dance. This course is designed for dance and theater majors and all students interested in Tap.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 117C Tap Dance III

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Advisory: DANC 117B with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DANC 115C.

This Course is a course in intermediate tap technique and is designed for students who have mastered basic tap dance skills. Students focus on analyzing thematic content, and choreographic creativity in tap movement. Students explore group improvisation exercises, demonstrating active, well-timed participation and the use of interlocking rhythms. Students practice new and more complicated rhythms, movement coordination's and skills. The course presents a variety of musical forms related to tap dance. This course is designed for dance and theater majors and all students interested in Tap.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 117D Tap Dance IV

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Advisory: DANC 117C with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DANC 115D.

This is a course in advance tap dance technique. This course is designed for students who want to further their mastery of Tap dance. Focus will be on increasing the speed and accuracy of execution of master tap routines and developing improvisation techniques. This course is designed for dance and theater majors and all students interested in Tap.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 122A Hip Hop I

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for DANC 120 or DANC 120A. This course is an introduction to Hip Hop dance. Emphasis is placed on fundamental Hip Hop technique and basic foundational party dances. This course is designed for dance majors and all students interested in Hip Hop dance.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 122B Hip Hop II

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Advisory: DANC 122A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DANC 120B. This course is the second in a series of Hip Hop dance courses. Emphasis is placed on beginning Hip Hop technique, rhythms, and styles. This course is designed for dance majors and all students interested in Hip Hop dance.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 122C Hip Hop III

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Advisory: DANC 122B with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DANC 120C. This is the third in a series of Hip Hop dance courses. Emphasis is placed on intermediate Hip Hop dance technique, choreography, and breakin' foundations. This course is designed for dance majors and all students interested in Hip Hop dance.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 122D Hip Hop IV

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Advisory: DANC 122C with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DANC 120D. This course is the fourth in a series of Hip Hop dance courses. Emphasis is placed on intermediate/advanced Hip Hop dance technique, complex choreography, and cypher freestyling. This course is designed for dance majors and all students interested in Hip Hop dance.

FT; AA/AS; CSU; UC.

DANC 125A Latin American Dance I

8-9 hours lecture/0.5-1 hours lab; 1-1.5 units

Grading: Letter Grade or Pass/No Pass

Latin American Dance I is a beginning level survey course in a variety of established and emerging partnered dances of Latin American origin with an emphasis on Salsa dance and introductory techniques, styles, rhythms, leading or following skills, movement patterns and history of selected Latin dances. This course is designed for students who wish to explore dances from other cultures and partnered dance.

FT; AA/AS; CSU; UC.

DANC 125B Latin American Dance II

8-9 hours lecture/0.5-1 hours lab; 1-1.5 units

Grading: Letter Grade or Pass/No Pass

Advisory: DANC 125A with a Grade of "C" or better, or equivalent

Latin American Dance II is an advanced beginning to intermediate survey course in a variety of established and emerging partnered dances of Latin American origin with an emphasis on Salsa dance, including leading and following, intermediate Salsa styling, technique, variations, and history. When this course is offered for three hours a week, additional time is utilized in practice and perfection of movement variations and styling. This course is designed for students who wish to explore dance movements from other cultures and partnered dance.

DANC 127 Movement for Wellness
24-27 hours lecture/0.5 hours lab; 2 units

Grading: Letter Grade or Pass/No Pass

This course builds on basic concepts of anatomy, physiology, and kinesiology to introduce traditional and non-traditional approaches to movement and injury prevention. Emphasis is placed on the following modalities: Yoga, Pilates, breath support, mindfulness meditation, Tai Chi and Qi Gong, foam roller, and theraband. Students are also introduced to Feldenkrais, Alexander Technique, and Bartenieff fundamentals. Student skills and proficiencies are enhanced by supervised repetition of various body modalities techniques, alignment and core stabilization, and body connections. This course is intended for dance majors and all students interested in wellness through movement.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 130A Dance Repertoire
1 hour lab; 1 unit

Grading: Letter Grade Only

Advisory: DANC 112A with a Grade of "C" or better, or equivalent or DANC 137A with a Grade of "C" or better, or equivalent or DANC 142A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DANC 130

This course is an introduction to the choreography of renowned choreographers. Emphasis is placed on performing selected choreography in ballet, modern, jazz, tap, and musical theater. This course is intended for dance majors and minors as well as all students interested in dance.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 137A Jazz Dance I
8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for DANC 135 or DANC 135A.

This course is an introduction to jazz dance. Emphasis is placed on fundamental jazz dance technique, vocabulary, and performance concepts. This course is designed for dance majors and all students interested in jazz dance.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 137B Jazz Dance II
8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Advisory: DANC 137A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DANC 135B.

This course is the second in a series of Jazz dance courses. Emphasis is placed on beginning Jazz dance technique, turns, rhythms and styles. This course is designed for dance majors and all students interested in Jazz dance.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 137C Jazz Dance III
8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Advisory: DANC 137B with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DANC 135C.

This course is the third in a series of Jazz dance courses. Emphasis is placed on intermediate Jazz dance technique, turns, rhythms and styles. This course is designed for dance majors and all students interested in Jazz dance.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 137D Jazz Dance IV
8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Advisory: DANC 137C with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DANC 135D.

This course is the fourth in a series of Jazz dance courses. Emphasis is placed on advanced Jazz dance technique, turns, rhythms and styles. This course is designed for dance majors and all students interested in Jazz dance.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 142A Modern Dance I

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for DANC 140 or PHYE 140 or DANC 140A.

This course is an introduction to modern dance. Emphasis is placed on fundamental modern dance vocabulary, concepts, and techniques. Students are introduced to basic elements of choreography and history of early modern dance contributors. This course is designed for dance majors and all students interested in modern dance.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 142B Modern Dance II

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Advisory: DANC 142A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DANC 140B

This course is the second in a series of modern dance courses. Emphasis is placed on beginning dance vocabulary, concepts, and techniques. Students manipulate elements of choreography and are introduced to basic anatomy. Topics include perspectives on modern dance history and techniques, with a focus on second generation dance artists and an introduction to African-American artists. This course is designed for dance majors and minors as well as students interested in modern dance.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 142C Modern Dance III

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Advisory: DANC 142B with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DANC 140C

This course is the third in a series of modern dance courses. Emphasis is placed on intermediate dance vocabulary, concepts, techniques, and anatomy. Students manipulate elements of choreography and rhythmic studies in movement. Topics include perspectives on modern dance history and techniques with a focus on third generation modern dance artists and an introduction to post-modern concepts. This course is designed for dance majors and minors as well as students interested in modern dance.

FT; AA/AS; CSU; UC.

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DANC 142D Modern Dance IV

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Advisory: DANC 142C with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DANC 140D

This course is the fourth in a series of modern dance courses. Emphasis is placed on intermediate-advanced dance vocabulary, concepts, technique, and anatomy. Students manipulate and refine elements of choreography and rhythmic studies in movement. Topics include perspectives on modern dance history and techniques with a focus on contemporary modern dance artists. This course is designed for dance majors and minors as well as all students interested in modern dance.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 145A Ballroom Dance I

8-9 hours lecture/0.5-1 hours lab; 1-1.5 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for DANC 145

Ballroom Dance is an introductory course focusing on the fundamentals of partner dance and basic steps in a variety of social and ballroom dance genres. Emphasis is placed on basic kinesthetic concepts of connection to partner with correct body placement and physical compression as it pertains to either leading or following. Dance analysis will include exploration of dance style, thematic content or intent, and theatrical elements. This course is designed for dance and drama majors, as well as students who wish to explore historical dance.

FT; AA/AS; CSU; UC.

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DANC 145B Ballroom Dance II

8-9 hours lecture/0.5-1 hours lab; 1-1.5 units

Grading: Letter Grade or Pass/No Pass

Advisory: DANC 145A with a Grade of "C" or better, or equivalent

Ballroom Dance II is the second in a series of ballroom dance courses focusing on partner dance and steps. Emphasis is placed on frame, style, partnering technique and variations in a variety of ballroom genres at the beginning through intermediate level, including concepts of connection to partner with correct body placement and physical compression as it pertains both leading and following. Dance analysis will include exploration of dance style, thematic content or intent, music, mood conveyed and theatrical elements. This course is designed for dance and drama majors, as well as students who wish to explore historical dance.

FT; AA/AS; CSU; UC.

DANC 150A Dance Making: Ballet

1 hour lab; 1 unit

Grading: Letter Grade Only

Advisory: DANC 253 with a Grade of "C" or better, or equivalent

DANC 112A with a Grade of "C" or better, or equivalent

DANC 137A with a Grade of "C" or better, or equivalent

DANC 142A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DANC 150

This course is a practical exploration of the processes and elements used in the art of dance making in the area of Ballet. Within a workshop format, students work under close faculty supervision to research the historical masterpieces of Ballet and reinterpret them in a contemporary light. Emphasis is placed on concept creation, use of story and movement, improvisation, dance patterns, revision and refinement to develop an original dance in a fixed, repeatable form. This course is designed for dance majors and all students interested in dance and choreography.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 151A Dance Making: Jazz

1 hour lab; 1 unit

Grading: Letter Grade Only

Advisory: DANC 253 with a Grade of "C" or better, or equivalent

DANC 112A with a Grade of "C" or better, or equivalent or

DANC 137A with a Grade of "C" or better, or equivalent or

DANC 142A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DANC 151A

This course is a practical exploration of the processes and elements used in the art of dance making in the area of Jazz. Within a workshop format, students work under close faculty supervision to research Jazz, including its African roots, its place in American musical theatre, and the influence of Funk, Hip-Hop and Latin rhythms, in order to create an original piece. Emphasis is placed on concept creation, use of story and movement, improvisation, dance patterns, revision and refinement to develop an original dance in a fixed, repeatable form. This course is designed for dance majors and all students interested in dance and choreography.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 152A Dance Making: Modern

1 hour lab; 1 unit

Grading: Letter Grade Only

Advisory: DANC 253 with a Grade of "C" or better, or equivalent

DANC 112A with a Grade of "C" or better, or equivalent or DANC 137A with a Grade of "C" or better, or equivalent or DANC 142A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DANC 152A

This course is a practical exploration of the processes and elements used in the art of dance making in the area of modern dance. Within a workshop format students work under close faculty supervision to research the 20th century pioneers of modern dance and 21st century trends to create an original, emotive modern dance. Emphasis is placed on concept creation, use of story, emotion and movement, improvisation, dance patterns, revision, and refinement to develop an original dance in a fixed, repeatable form. This course is designed for dance majors and all students interested in dance and choreography.

FT; AA/AS; CSU; UC.

DANC 153A Dance Making: Dance Theatre

1 hour lab; 1 unit

Grading: Letter Grade Only

Advisory: DANC 253 with a Grade of "C" or better, or equivalent

DANC 112A with a Grade of "C" or better, or equivalent or DANC 137A with a Grade of "C" or better, or equivalent or DANC 142A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DANC 153A

This course is a practical exploration of the processes and elements used in the art of dance making in the area of Dance Theatre. Within a workshop format, students work under close faculty supervision to integrate multimedia, text, spoken word, and/or film with dance to create an original piece of Dance Theatre. Emphasis is placed on concept creation, use of story and movement, improvisation, dance patterns, revision, and refinement to develop an original dance in a fixed, repeatable form. This course is designed for dance majors and all students interested in dance and choreography.

FT; AA/AS; CSU; UC.

DANC 160A Pilates - Stretch and Conditioning

8-9 hours lecture/0.5-1 hours lab; 1-1.5 units

Grading: Letter Grade or Pass/No Pass

Pilates is a course in stretch and conditioning based on exercises and concepts developed by Joseph H. Pilates. This course includes beginning mat work exercises to improve strength and flexibility. This course is of interest to dancers, athletes, and anyone seeking an understanding of Pilates exercises and concepts.

FT; AA/AS; CSU; UC.

DANC 160B Pilates - Alignment and Correctives

8-9 hours lecture/0.5-1 hours lab; 1-1.5 units

Grading: Letter Grade or Pass/No Pass

Advisory: DANC 160A with a Grade of "C" or better, or equivalent

Pilates is a course in alignment and correctives based on exercises and concepts developed by Joseph H. Pilates. This course includes intermediate mat exercises to improve body alignment, strength, flexibility, control, coordination, and breathing. This course is of interest to anyone seeking an understanding of Pilates exercises and concepts as well as dancers and athletes.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 176A Dance Improvisation

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Advisory: DANC 112A with a Grade of "C" or better, or equivalent or DANC 137A with a Grade of "C" or better, or equivalent or DANC 142A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DANC 177 or DANC 177A.

This course is an introduction to improvisational dance. Emphasis is placed on space, time and energy as means for creating improvisational dance at the beginning level. This course is intended for all students interested in the use of improvisational movement in dance and non-dance settings.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 176B Dance Improvisation II

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Advisory: DANC 176A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DANC 177B.

This course is an exploration of improvisational dance at the intermediate level. Emphasis is placed on space, time, and energy as a means of creating improvisational dance in structured and unstructured settings. Students utilize and refine improvisational dance skills in the creation of improvisational dance compositions. This course is intended for dance majors and all students interested in the use of improvisational movement in dance and non-dance settings.

FT; AA/AS; CSU; UC.

DANC 178A Advanced Commercial Dance I

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for DANC 178

This course is a study and application of the ideas, styles, and works of commercial dance choreographers. Emphasis is placed on the techniques and choreographic methodologies of American dance masters Jack Cole, Hermes Pan, Eugene Loring, and Matt Mattox. Instruction includes student performance of historical commercial dance repertoire. This course is intended for students majoring in dance.

FT; AA/AS; CSU; UC.

DANC 178B Advanced Commercial Dance II

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

This course is a study and application of the ideas, styles, and works of commercial dance choreographers on Broadway and in film. Emphasis is placed on the techniques and choreographic methodologies of American dance masters Bob Fosse, Jerome Robbins, Michael Kidd, and Michael Bennett. Instruction includes student performance of historical commercial dance repertoire.

This course is intended for students majoring in dance.

FT; AA/AS; CSU; UC.

DANC 179A Advanced Classical Dance I

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Advisory: DANC 112D with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DANC 179.

This class compares, discusses and analyzes the movement principles of the Royal and the French styles of classical dance. Advanced Classical dance focuses on movement design and artistic intent of the Royal and French methods. This course is designed for dance majors and all students interested in Advanced Classical dance.

FT; AA/AS; CSU; UC.

DANC 179B Advanced Classical Dance II

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Advisory: DANC 112D with a Grade of "C" or better, or equivalent

This class compares, discusses and analyzes the movement principles of the Cecchetti and the Russian styles of Classical dance. Advanced Classical focus on movement design, artistic intent, and intellectual property of the Cecchetti and Russian methods. This course is designed for dance majors and all students interested in Advanced Classical dance.

FT; AA/AS; CSU; UC.

DANC 180A Advanced Contemporary Dance I

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Advisory: DANC 142D with a Grade of "C" or better, or equivalent

This course is a study and application of the ideas, styles, and significant works of influential Contemporary dance choreographers from the period 1900-1960. Emphasis is placed on the techniques and choreographic methodologies of Contemporary dance pioneers, such as Martha Graham, Doris Humphrey, Lester Horton, and Merce Cunningham. Student performances include reproduction of historical Contemporary dance repertoire as well as original choreography based on historical Contemporary dance choreography and techniques. This course is intended for students majoring in dance.

FT; AA/AS; CSU; UC.

DANC 180B Advanced Contemporary Dance II

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade Only

Advisory: DANC 180A with a Grade of "C" or better, or equivalent

This course is a study and application of the ideas, styles, and significant works of one or more influential choreographers from the period 1960-present. Emphasis is placed on the movement concepts and choreographic practices in various geographic regions around the world, such as contemporary dance in Western Europe, Dance Theater in Germany, Gaga in Israel, and sensory practices in America. Instruction includes investigation and application of contemporary dance styles. This course is intended for students majoring in dance.

FT; AA/AS; CSU; UC.

DANC 181 History of Dance

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 260

This course is a study of the history of dance. Emphasis is placed on the cultural, social and political aspects of dance in historical perspective. Students are challenged to broaden their aesthetic perceptions as they analyze and compare the influence of diverse cultures on western dance forms. Topics include the language of dance, dance technique and choreography. This class is intended for all students interested in dance and the history of dance.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 183 Music for Dance

24-27 hours lecture/0.5 hours lab; 2 units

Grading: Letter Grade Only

Music for Dance introduces the fundamentals of music through the study of terminology, notation, elements and form as they relate to movement. This course explores the interrelationship of music and dance and provides students the opportunity to compose and perform rhythmic and movement projects. This course is of interest to anyone seeking an understanding of music and movement fundamentals as well as dance majors. This course is designed to fulfill lower division requirements for dance majors.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 253 Choreography

24-27 hours lecture/0.5 hours lab; 2 units

Grading: Letter Grade or Pass/No Pass

Advisory: DANC 112A with a Grade of "C" or better, or equivalent or DANC 122A with a Grade of "C" or better, or equivalent or DANC 137A with a Grade of "C" or better, or equivalent or DANC 142A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 116

Choreography is a course that explores the theories and elements utilized in the creative process of dance composition. Emphasis is placed on student application of choreographic concepts through the development of movement compositions. This course is designed to fulfill lower division requirements for dance majors.

FT; AA/AS; CSU; UC.

DANC 261A Dance Performance I

2 hours lab; 2 units

Grading: Letter Grade Only

Advisory: DANC 112A with a Grade of "C" or better, or equivalent or DANC 117A with a Grade of "C" or better, or equivalent or DANC 122A with a Grade of "C" or better, or equivalent or DANC 137A with a Grade of "C" or better, or equivalent or DANC 142A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DANC 261

This is the first in a series of dance performance courses. This course provides the opportunity for students to apply fundamental skills in ballet, jazz, tap, Hip Hop, and modern dance in concerts and community performances. Emphasis is placed on student application of dance, staging, and performance techniques in faculty choreographed works for large ensembles. This course is designed for dance majors and students interested in dance performance.

FT; AA/AS; CSU; UC.

DANC 261B Dance Performance II

2 hours lab; 2 units

Grading: Letter Grade Only

Advisory: DANC 112A with a Grade of "C" or better, or equivalent or DANC 117A with a Grade of "C" or better, or equivalent or DANC 122A with a Grade of "C" or better, or equivalent or DANC 137A with a Grade of "C" or better, or equivalent or DANC 142A with a Grade of "C" or better, or equivalent

This is the second in a series of dance performance courses. This course provides the opportunity for students to apply beginning skills in ballet, jazz, Hip Hop, tap, and modern dance in concerts and community performances. Emphasis is placed on student application of dance, staging, and performance techniques in student choreographed works for large ensembles. This course is designed for dance majors and students interested in choreography and dance performance.

FT; AA/AS; CSU; UC.

DANC 261C Dance Performance III

2 hours lab; 2 units

Grading: Letter Grade Only

Advisory: DANC 112B with a Grade of "C" or better, or equivalent or DANC 117B with a Grade of "C" or better, or equivalent or DANC 122B with a Grade of "C" or better, or equivalent or DANC 137B with a Grade of "C" or better, or equivalent or DANC 142B with a Grade of "C" or better, or equivalent

This is the third in a series of dance performance courses. This course provides the opportunity for students to apply intermediate skills in ballet, jazz, tap, Hip Hop, and modern dance in concerts and community performances. Emphasis is placed on student application of dance, staging, and performance techniques in faculty choreographed works for solos and small groups. This course is designed for dance majors and students interested in dance performance.

FT; AA/AS; CSU; UC.

DANC 261D Dance Performance IV

2 hours lab; 2 units

Grading: Letter Grade Only

Advisory: DANC 112C with a Grade of "C" or better, or equivalent or DANC 117C with a Grade of "C" or better, or equivalent or DANC 122C with a Grade of "C" or better, or equivalent or DANC 137C with a Grade of "C" or better, or equivalent or DANC 142C with a Grade of "C" or better, or equivalent

This is the fourth in a series of dance performance courses. This course provides the opportunity for students to apply advanced skills in ballet, jazz, Hip Hop, tap, and modern dance in concerts and community performances. Emphasis is placed on student application of dance, staging, and performance techniques in student choreographed works for solos and small groups. Students choreograph and produce all elements of performances in preparation to transfer to a university. This course is designed for dance majors and students interested in choreography and dance performance.

FT; AA/AS; CSU; UC.

DANC 271A Stage Costuming for Dance

1-2 hours lab; 1-2 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for DANC 271

This production oriented course introduces students to the techniques of costume design and organization for a full dance production. Emphasis is placed on costume design, modification, and craft techniques, as well as on the organizational structure required for costume production for a staged dance performance. This course is intended for dance majors and all students interested in costume production for the stage.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 271B Makeup for Dance Productions

1-2 hours lab; 1-2 units

Grading: Letter Grade Only

This production oriented course introduces students to the materials and techniques used in stage makeup design and application for a full dance production. Emphasis is placed on vocabulary pertinent to the use of dance makeup and participation in the makeup crew for a full dance department production. This course is intended for dance majors and all students interested in makeup for the stage.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 271C Lighting Design for Dance Production
1-2 hours lab; 1-2 units

Grading: Letter Grade Only

This production oriented course introduces students to the principles and practice of stage lighting. Emphasis is placed on design and drafting of lighting plots and the operation of basic lighting and electrical stage equipment. Students participate in lighting design and execution for a full department dance production. This course is intended for dance majors and all students interested in lighting for the stage.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 271D Sound Design for Dance Production
1-2 hours lab; 1-2 units

Grading: Letter Grade Only

This production oriented course introduces students to the principles and practice of theater sound and its technical operation. Emphasis is placed on the basic aesthetic and technical aspects of sound design for the theater. Students participate in crew sound for a full department dance production. This course is intended for dance majors and all students interested sound for the stage.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DANC 290 Independent Study
1-3 hours other; 1-3 units

Grading: Pass/No Pass Only

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is for students who wish to conduct additional research, a special project, or learning activities in dance. It is not intended to replace an existing course in the discipline. Projects may include extended research on dance subjects addressed in scheduled dance classes as well as topics outside the dance curriculum. The culmination of the course may include a written paper, presentation, or performance. An Independent Study has to be arranged with, approved and monitored by a member of the dance faculty.

FT; AA/AS; CSU.

DRAM-Dramatic Arts

DRAM 103 Acting for Non-majors
48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DRAM 130

This course introduces students to improvisational acting, treating acting as process-centered. The instructor leads the students using a variety of exercises to imagine, enact and reflect upon human experiences, emphasizing problem-solving skills in group improvisational work. This course is designed for introductory drama students and anyone who is interested in studying acting.

FT; AA/AS; CSU.

DRAM 105 Introduction to Dramatic Arts
48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This survey course introduces fundamental practices and creative processes in the dramatic arts. Through experimentation and examination, students gain greater insight and appreciation of the dramatic arts as an agent of change that is vital to the humanities. Aspects of theatre production and collaboration are covered through lecture, group discussion and participation. This course is designed for dramatic arts majors and all students interested in the dramatic arts.

FT; AA/AS; CSU; UC; C-ID: THTR 111.

DRAM 106 Voice-Over Performance**32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for RTVC 106, RTVF 106, DRAM 265 or RTVC 265.

This course is practical study of the voice-over industry. Emphasis is placed on voice-over performance techniques for radio and television commercials, multimedia, and other audio and video presentations. Students are expected to read aloud extensively as well as to record their voice for critique and self-evaluation. Topics include an overview of the voice-over business, marketing, current technology, and professional work and studio etiquette as well as legal and ethical issues in voice-over performance. Social and cultural constructs, economics, technology, and equity and social justice are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU.**DRAM 107 Study of Filmed Plays****48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This course is a study of cinematic adaptations of plays, comparing stage and screen versions in the areas of form and structure, writing, and production. Emphasis is placed on developing students' appreciation for dramatic art and providing practice in the art of theatre criticism. This course is designed for Drama majors and any student interested in the Humanities.

FT; AA/AS; CSU; UC.**DRAM 108 Playwriting****48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Prerequisite:** Eligible to enroll in a transferable English composition course.

This course gives students an opportunity to write dramatic material for the theatre. Topics and exercises include exploring dialogue, monologue, exposition, autobiography, writing for various voices, and other areas related to playwriting. Students are required to write scenes and monologues that explore issues of structure, in order to develop a technique to explore individual and traditional dramatic ideas and processes. This class is designed for students majoring in theatre and those students interested in the Humanities.

FT; AA/AS; CSU; UC.**DRAM 109 Theatre and Social Issues****48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This course is a study of the role of theatre in society within its cultural, aesthetic, economic, and political manifestations. Emphasis is placed on increasing students' understanding of politics in theatrical representation and comprehension of theatre as a tool for social change. Topics include the nature and function of theatrical representation, moving to historical and contemporary issues in American and World cultures. This class is designed for students majoring in theatre and those students interested in the Humanities and/or social and theoretical issues.

FT; AA/AS; CSU; UC.**DRAM 111 Chicana/o Theatre****48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This course is a survey of Chicana/o drama in the United States and Mexico from 1975 to the present. Emphasis is placed on the historical roots, techniques, styles, and dramatic literature. It explores new trends, influences, and developments in playwriting, directing, and performance styles. This course examines issues facing the Mexican-American community through dramatic forms, focusing on the advent of professionally-oriented Chicana/o theatre, examining significant plays, playwrights, and the theatre groups that produced those plays. This course is designed for Chicana/o Studies majors, Dramatic Arts majors, and anyone interested in literature or theatre.

FT; AA/AS; CSU; UC.

DRAM 118 Intermediate Playwriting**48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** DRAM 108 with a Grade of "C" or better, or equivalent

This course examines themes, structures, and effective material that is written for the theatre at the intermediate level. Topics and exercises include the exploration of dialogue and monologue composition, exposition, autobiography, political and domestic social issues, writing for the opposite gender, and structure. Students are required to write scenes and plays that facilitate the development of a technique that is both individual and based on traditional dramaturgical ideas. Students present a folio of plays as well as critical analyses of plays and other works associated with theatre and playwriting. This course is designed for students majoring in theatre and those interested in creative writing and the humanities.

FT; AA/AS; CSU.**DRAM 119 Film and Television Performance****32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** DRAM 132 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for RTVC 119 or RTVF 119 or DRAM 265 or RTVC 265

This course introduces students to the skills required for on-camera performing techniques as used in the motion picture and television industry. Students participate in the selection, rehearsal, and on-camera performance of material from television and motion picture scripts including drama, sitcoms, daytime dramas, and commercials. Emphasis is placed on cold-reading taped audition skills, improvisational and interview techniques, and the fundamental acting techniques required for on-camera performance. Legal and ethical issues in film and television performance, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for theatre, television, and film majors.

FT; AA/AS; CSU.**DRAM 123 Beginning Stagecraft****32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade or Pass/No Pass**Limitation on Enrollment:** This course is not open to students with previous credit for DRAM 125

This course is a hands-on introduction to technical theatre production. Emphasis is placed on construction, painting, rigging, placement, and manipulation of stage scenery, lighting equipment, sound, projections, properties, and the organization and management of stage activity and stagecraft technology. This course is designed for theatre majors and students interested in backstage production.

FT; AA/AS; CSU; UC; C-ID: THTR 171.**DRAM 124 Makeup for the Stage****32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for DRAM 122

This course is an introductory hands-on study of the materials and techniques used in stage and production makeup design and application. Emphasis is placed on the acquisition of a lexicon pertinent to the history and use of makeup in the theater as well as on the actual application of stage makeup in the classroom and as a member of the makeup crew for a theatrical and video production. This course is intended for students majoring in drama, theatre, film, radio and television and cosmetology as well as anyone interested in makeup for the stage.

FT; AA/AS; CSU; UC; C-ID: THTR 175.**DRAM 126 Advanced Stagecraft****32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** DRAM 123 with a Grade of "C" or better, or equivalent

This course is an advanced study of technical stage production and scene technology. Emphasis is placed on the methods and practices of technical theory and on practical, hands-on experience. Topics include theater design, stage decor and lighting, and the synthesis of all elements of stagecraft within an environment of actual stage production. Students develop crew leadership skills as they create and construct set designs and operate stage equipment for all Dramatic Arts productions throughout the semester. This course is designed for Theatre majors and anyone interested in stagecraft.

FT; AA/AS; CSU; UC.

DRAM 127 Sound For Theatre**16-18 hours lecture/1 hour lab; 2 units****Grading:** Letter Grade or Pass/No Pass

This course is an introduction to the basic principles of audio production and the craft of sound design. Topics include technique, theory and procedures necessary to develop sound, music and effects integrated into theatre productions. This course is intended for the transfer student planning a major in Dramatic Arts, desiring competency in technical theatre or those interested in developing a deeper understanding of sound design.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

DRAM 128 Stage Lighting Design**48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass

This course is an introduction to the principles and practice of stage and film lighting design. Emphasis is placed on the operation of basic lighting equipment, design, and digital drafting techniques. Technical preparation for other forms of production, such as outdoors, television, and movies is included. This course is intended for students majoring in Dramatic Arts or those interested in technical theatre.

FT; AA/AS; CSU; UC.**DRAM 129A Beginning Scene Painting****32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade or Pass/No Pass**Limitation on Enrollment:** This course is not open to students with previous credit for DRAM 129

This course introduces students to basic techniques and materials used in the painting of scenery for the stage. Emphasis is placed on techniques in faux painting, murals, trompe l'oeil (trick the eye), and decorative motifs for theatre. Students experiment with color mixing, base, layout, ink, lay-in detail, and the use of brushes and tools for application in theatre settings. This course is designed for drama majors, art students, and anyone interested in painting on a large scale.

FT; AA/AS; CSU; UC.**DRAM 129B Intermediate Scene Painting****32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** DRAM 129A with a Grade of "C" or better, or equivalent

This course is an intermediate study in the art and practice of theatrical scene painting. Emphasis is placed on the creation of large scale projects designed to allow students the opportunity to apply basic scene painting skills while experimenting with intermediate techniques and tools, including liner and aerial perspective and a variety of spray guns. Students take on leadership roles in scene painting for theatrical productions while developing communication and collaboration skills. The course is designed for students majoring in drama, art, or anyone interested in painting on a large scale.

FT; AA/AS; CSU; UC.**DRAM 132 Beginning Acting****32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for DRAM 131A

This course is a beginning level study, practice and execution of the fundamentals of acting designed to develop a foundation in basic acting technique. Emphasis is placed on the effective communication of ideas and emotions by a dramatic character to audience. Topics include staging techniques, improvisation, theater games, scenes, monologues, stage movement, and an introduction to the lexicon of acting for theater. This course is intended for students who are interested in developing basic acting techniques.

FT; AA/AS; CSU; UC; C-ID: THTR 151.**DRAM 133 Intermediate Acting****32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** DRAM 132 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for DRAM 131B

This course is an intermediate level study of the fundamentals of acting. Emphasis is placed on the use of scene work as a tool for sharpening the actor's skill. Students work on scenes by a variety of playwrights as they increase vocal, physical and emotional flexibility as well as their stage presence. This course is designed for students majoring in Drama and anyone interested in honing their acting skill.

FT; AA/AS; CSU; UC; C-ID: THTR 152.

DRAM 134 Beginning Voice for Actors**48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass

This course is a study of the foundations of vocal technique for actors. Emphasis is placed on breath, projection, resonators, and diction. Students apply voice technique through classical and modern monologues. This course is designed for drama majors, multilingual learners, and anyone interested in refining voice and articulation skills.

FT; AA/AS; CSU; UC.**DRAM 136 Theatre History I: Ancient Greece to the Renaissance****48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This course is a survey of the history of theatre from ancient Greece through the Renaissance. Emphasis is placed on the historical, political, cultural, and religious contexts within which plays were developed and performed. Topics include acting styles, theories and theorists, theatre architecture, representative plays and playwrights, production elements, and staging innovations. This course is intended for drama majors and students interested in history.

FT; AA/AS; CSU; UC; C-ID: THTR 113.**DRAM 137 Theatre History II: Restoration to the Present****48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This course is a survey of theatre from the English Restoration to the present. Emphasis is placed on the historical, political, and cultural contexts within which plays were developed and performed. Topics include acting styles, theories and theorists, theatre architecture, representative plays and playwrights, production elements, and staging innovations. This course is intended for drama majors and students interested in history.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DRAM 143 Beginning Costuming**32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade or Pass/No Pass

This lecture and laboratory course emphasizes student involvement in the techniques and methodology of costume construction. Topics include practical experience in sewing, fabrics and their modification, costume craft techniques such as millinery, masks, footwear and accessories, and service on costume crews. Students explore costume production procedures with regards to time, budgets, and labor. This course is designed for students majoring in performance and technical theatre or anyone interested in clothing and fashion.

FT; AA/AS; CSU; UC; C-ID: THTR 174.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

DRAM 153 Intermediate Costuming**32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** DRAM 143 with a Grade of "C" or better, or equivalent or FASH 130 with a Grade of "C" or better, or equivalent

This lecture/laboratory course develops intermediate skills in theatrical costuming including costume design for various styles, historical research methods, costume construction, and fabric identification and modification. Emphasis is placed on the role of the costume designer from the pre-production/design phase to the execution of costume design for the stage. This course is designed for drama majors and anyone interested in costume design, cosplay, or fashion.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DRAM 165 Introduction to Stage Movement
48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for Drama 165A

This course is an introduction to basic techniques of movement for the stage. Emphasis is placed on the actor's body as an expressive instrument. Students acquire flexibility, strength, and physical repertoire of stage movement. This course is designed for drama and dance majors and anyone interested in honing stage movement skills.

FT; AA/AS; CSU; UC.

DRAM 205 The American Musical on Stage and Screen

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a survey of the American musical on stage and film with an emphasis on the evolution of this unique American art form. Students explore the role of social, political, and demographic changes on Musical Theatre from late-nineteenth century stage productions to recent live, filmed, and digital manifestations. This class is designed for Dramatic Arts majors, Film majors, and anyone with an interest in musical theatre.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DRAM 240A Musical Theatre Repertoire I
4 hours lab; 4 units

Grading: Letter Grade Only

Limitation on Enrollment: Tryout or Audition.

This course is not open to students with previous credit for DRAM 251

This introductory class is designed for the rehearsal and performance of a play from the musical theatre repertoire. Emphasis is placed on rehearsal and performance as students are introduced to working in collaboration with directors, cast members, and production crew members on a musical theatre production. This course is intended for students majoring in drama, dance, music, and all students interested in participating in a musical theatre production.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DRAM 240B Musical Theatre Repertoire II
4 hours lab; 4 units

Grading: Letter Grade Only

Advisory: DRAM 240A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Tryout or Audition. This course is not open to students with previous credit for DRAM 251.

This course is designed for the intermediate level of rehearsal and performance of a play from the musical theatre repertoire. Emphasis is placed on rehearsal, performance, and the synthesis of singing, dancing and acting throughout the rehearsal and performance processes. This course is intended for students majoring in drama, dance, or music, and all students interested in participating in musical theatre production and performance.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DRAM 240C Musical Theatre Repertoire III
4 hours lab; 4 units

Grading: Letter Grade Only

Advisory: DRAM 240B with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Tryout or Audition. This course is not open to students with previous credit for DRAM 251.

This course is designed for the intermediate-advanced level of rehearsal and performance of a play from the musical theatre repertoire. Emphasis is placed on refinement of the process through the development of one's work ethic. Students are expected to demonstrate professionalism and consistent practice throughout the rehearsal process. This course is intended for students majoring in drama, dance, or music, and all students interested in participating in musical theatre production.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DRAM 240D Musical Theatre Repertoire IV
4 hours lab; 4 units

Grading: Letter Grade Only

Advisory: DRAM 240C with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Tryout or Audition. This course is not open to students with previous credit for DRAM 251.

This class is designed for the advanced level of rehearsal and performance of a play from the musical theatre repertoire. Emphasis is placed on professional decorum, adaptability, and leadership throughout the rehearsal and performance processes. This course is intended for students majoring in drama, dance, or music, and all students interested in participating in musical theatre production.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DRAM 242A Rehearsal and Performance I
3 hours lab; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for DRAM 250
Tryout or Audition.

Obtain Permission Number from Instructor

This is the first in a series of courses in theatre production. Emphasis is placed on an introduction to the rehearsal and performance process of a departmental theatre production based on the unique aspects of the selected play. Topics include collaboration with directors, cast members, and production crew members. This course is intended for students majoring in drama and all students interested in participating in theatre production

FT; AA/AS; CSU; UC; C-ID: THTR 191.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DRAM 242B Rehearsal and Performance II
3 hours lab; 3 units

Grading: Letter Grade Only

Advisory: DRAM 242A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Tryout or Audition.

Obtain Permission Number from Instructor

This is the second in a series of courses in theatre production. Emphasis is placed on an intermediate-level rehearsal and performance of a departmental theatre production based on the unique aspects of the selected play. Topics include a deeper analysis of the selected piece through researching the playwright, more thorough character development, and collaboration with directors, cast members, and production crew members. This course is intended for students majoring in drama and all students interested in participating in theatre production.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DRAM 242C Rehearsal and Performance III
3 hours lab; 3 units

Grading: Letter Grade Only

Advisory: DRAM 242B with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Tryout or Audition.

Obtain Permission Number from Instructor

This is the third in a series of courses in theatre production. Emphasis is placed on an intermediate-advanced level of rehearsal and performance of a departmental theatre production based on the unique aspects of the selected play. Topics include a deeper analysis of the selected piece through more complex character arc explorations, receiving and incorporating feedback from the director/s, and role modeling effective collaboration with directors, cast members, and production crew members. This course is intended for students majoring in drama and all students interested in participating in theatre production.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DRAM 242D Rehearsal and Performance IV
3 hours lab; 3 units

Grading: Letter Grade Only

Advisory: DRAM 242C with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Tryout or Audition.

Obtain Permission Number from Instructor

This is the fourth and final course in a series of courses in theatre production. This course prioritizes the advanced level of rehearsal and performance of a departmental theatre production based on the unique aspects of the selected play. Topics include a deeper analysis of the selected piece through research of its impact in historical and cultural contexts, creating more complex character creations and their relationships, effectively assisting the directors, taking on leadership roles in the production in collaboration with directors, cast members, and production crew members. This course is intended for students majoring in drama and all students interested in participating in theatre production.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

DRAM 243A Technical Theatre Practicum - Costume and Makeup
2 hours lab; 2 units

Grading: Letter Grade Only

This technical theatre practicum is designed to provide students with hands-on training in the intricacies of running a theatre production, with special emphasis on costume and makeup. Students work as part of the costume and makeup crew during the rehearsal and production processes for theatre or dance productions. This course is intended for students majoring in drama and all students interested in participating in the theatre production process.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

DRAM 243B Technical Theatre Practicum - Lighting and Sound
2 hours lab; 2 units

Grading: Letter Grade Only

This technical theatre practicum is designed to provide students with hands-on training in the intricacies of running a theatre production, with special emphasis on lighting and audio. Students work as part of the lighting and audio crew during the rehearsal and production processes for theatre or dance performances. This course is intended for students majoring in drama and all students interested in participating in the theatre production process.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

DRAM 243C Technical Theatre Practicum - Scenic
2 hours lab; 2 units

Grading: Letter Grade Only

This technical theatre practicum is designed to provide students with hands-on training in the intricacies of running a theatre production, with special emphasis on scenic elements. Students work as part of the scenic crew during the rehearsal and production processes for theatre or dance productions. This course is intended for students majoring in drama and all students interested in participating in the theatre production process.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

DRAM 243D Technical Theatre Practicum - Stage Management
2 hours lab; 2 units

Grading: Letter Grade Only

This technical theatre practicum is designed to provide students with hands-on training in the intricacies of running a theatre production, with special emphasis on stage management. Students work as part of the stage management crew during the rehearsal and production processes for theatre or dance productions. This course is intended for students majoring in drama and all students interested in participating in the theatre production process.

FT; AA/AS; CSU; UC.

DRAM 244A Theatre Workshop I**1-2 hours lab; 1-2 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This introductory class is designed for the rehearsal and performance of original, established, touring, or devised works. Aspects of theatre covered including acting, playwriting, and production support. This course is intended for introductory drama majors and all students interested in theatre arts.

FT; AA/AS; CSU.**DRAM 244B Theatre Workshop II****1-2 hours lab; 1-2 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** DRAM 244A with a Grade of "C" or better, or equivalent

This class is designed for the intermediate level of rehearsal and performance of original, established, touring, or devised works. Various aspects of theatre are covered including acting, playwriting, directing, design, and production support. This course is intended for intermediate drama majors and all students interested in theatre arts.

FT; AA/AS; CSU.**DRAM 244C Theatre Workshop III****1-2 hours lab; 1-2 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** DRAM 244B with a Grade of "C" or better, or equivalent

This class is designed for the intermediate-advanced level of rehearsal and performance of original, established, touring, or devised works. All aspects of theatre are covered including acting, directing, playwriting, design, and production support. This course is intended for intermediate-advanced drama majors and all students interested in theatre arts.

FT; AA/AS; CSU.**DRAM 244D Theatre Workshop IV****1-2 hours lab; 1-2 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** DRAM 244C with a Grade of "C" or better, or equivalent

This class is designed for the advanced level of rehearsal and performance of original, established, touring, or devised works. All aspects of theatre are covered including acting, directing, playwriting, design, and production support. This course is intended for advanced drama majors and all students interested in theatre arts.

FT; AA/AS; CSU.**DRAM 270 Theatre Arts Internship / Work Experience****1-4 hours other; 1-4 units****Grading:** Letter Grade Only**Limitation on Enrollment:** Obtain Permission Number-Work Exp. Coordinator

This course provides on-the-job learning experiences for students employed in a Theatre Arts-related job or internship. Students develop workplace competencies, critical thinking skills, and problem solving abilities through the creation and achievement of job-related behavioral learning objectives. This course may be taken up to four times. One unit of credit may be earned for every 54 hours of work experience. A maximum of fourteen credit hours for all work experience subject areas may be earned during one enrollment period. This course is intended for students majoring or interested in the Dramatic and/or Theatre Arts.

FT; AA/AS; CSU.**DRAM 290 Independent Study****1-3 hours other; 1-3 units****Grading:** Letter Grade or Pass/No Pass**Limitation on Enrollment:** Obtain Permission Number from Instructor

Advanced special work in dramatic arts: acting, design, lighting, film, business, makeup, costumes, direction or play production.

DSGN: Design

DSGN 100 Introduction to Graphic Design

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ARTG 100
This course explores the fundamentals of graphic design. Emphasis is placed on the principles and elements of design and their application to analog and digital media, including through the lens of diverse cultures. Topics include line, shape, color, texture, type, grid, pattern, graphic translation, and other foundational visual concepts. This course is intended for graphic design students, interaction design students, and anyone interested in graphic design.

FT; AA/AS.

DSGN 102 Digital Media I

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ARTC 125 or ARTG 125
This course is the first in a series of digital media courses. Students explore the tools and principles used in the creation of digital media. Emphasis is placed on learning industry-standard software used in graphic design. Topics include vector imagery, raster imagery, layout tools, file formats, file management, typesetting, image manipulation, ethics, and other foundational digital media concepts. This course is intended for graphic design students, interaction design students, and anyone interested in graphic design.

FT; AA/AS; CSU; UC.

DSGN 104 Graphic Design History

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ARTG 118
This course examines graphic design as an essential component of culture and history. Emphasis is placed on learning important design movements in the context of diverse cultural and historical perspectives. Topics include influential design figures and the impact of technology on design. This course is intended for graphic design students, interaction design students, and anyone interested in graphic design history.

FT; AA/AS; CSU; UC.

DSGN 106 Typography I

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ARTG 106 or ARTG 265A
This course is the first in a series of courses about typography. Emphasis is placed on learning foundational type skills and applying them to solve typographic problems. Topics include type selection, styles, terminology, construction, classifications, typesetting, spacing, layout, hierarchy, accessibility, and history. Instruction incorporates both hand-rendering and computer tools. This course is intended for graphic design students, interaction design students, and anyone interested in typography.

FT; AA/AS; CSU; UC.

DSGN 120 Illustration

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade Only

Advisory: DSGN 100 with a Grade of "C" or better, or equivalent and DSGN 102 with a Grade of "C" or better, or equivalent and DSGN 104 with a Grade of "C" or better, or equivalent and DSGN 106 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ARTG 120
This course introduces students to illustration concepts in the context of graphic design. Topics include illustration techniques, tools, media, and workflows. Emphasis is placed on developing illustrations with conceptual thinking, cultural voice, and visual storytelling. This course is intended for graphic design students, interaction design students, and anyone interested in illustration.

FT; AA/AS; CSU.

DSGN 124 Page Layout

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade Only

Prerequisite: DSGN 100 with a Grade of "C" or better, or equivalent and DSGN 102 with a Grade of "C" or better, or equivalent and DSGN 104 with a Grade of "C" or better, or equivalent and DSGN 106 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ARTC 124 or ARTG 124. This course introduces students to the principles and strategies for creating effective design layouts. Emphasis is placed on concepts such as hierarchy, unity, and balance in two-dimensional space. Topics include layout software, grids, accessibility, and typographic systems in the context of design projects. This course is intended for graphic design students, interaction design students, and anyone interested in page layout.

FT; AA/AS; CSU; UC.

DSGN 143 Interaction Design I

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade Only

Prerequisite: DSGN 100 with a Grade of "C" or better, or equivalent and DSGN 102 with a Grade of "C" or better, or equivalent and DSGN 104 with a Grade of "C" or better, or equivalent and DSGN 106 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ARTG 143, ARTG 144, or ARTG 265B

This course is the first in a series of interaction design courses. Students explore the fundamentals of interaction design processes and methodologies in the context of website design. Emphasis is placed on using research and strategy to create strong information architecture and responsive website layouts. Topics include current industry software, research and strategy processes, accessibility, and prototyping. This course is intended for graphic design students, interaction design students, and anyone interested in interaction design.

FT; AA/AS; CSU.

DSGN 153 Interaction Design II

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade Only

Prerequisite: DSGN 100 with a Grade of "C" or better, or equivalent and DSGN 102 with a Grade of "C" or better, or equivalent and DSGN 104 with a Grade of "C" or better, or equivalent and DSGN 106 with a Grade of "C" or better, or equivalent

Advisory: DSGN 143 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ARTG 153

This course is the second in a series of interaction design courses. Students explore the strategies and best practices that lead to successful mobile experiences. Emphasis is placed on creating design solutions that translate complex tasks and information into digital products that are user-friendly and elicit emotional responses. Topics include current user experience research and strategy, user interface design, prototyping, usability testing, and ethics. This course is intended for graphic design students, interaction design students, and anyone interested in interaction design.

FT; AA/AS; CSU.

DSGN 202 Digital Media II

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade Only

Prerequisite: DSGN 100 with a Grade of "C" or better, or equivalent and DSGN 102 with a Grade of "C" or better, or equivalent and DSGN 104 with a Grade of "C" or better, or equivalent and DSGN 106 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ARTG 126

This course is the second in a series of digital media courses. Students survey software and other tools used in the creation of still and time-based digital media. Emphasis is placed on building specialized design and software skills. Topics include product photography, photo editing and manipulation, compositing, motion graphics, and user interface animations. This course is intended for graphic design students, interaction design students, and anyone interested in digital media.

FT; AA/AS; CSU.

DSGN 203 Interaction Design III

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade Only

Prerequisite: DSGN 143 with a Grade of "C" or better, or equivalent or DSGN 153 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ARTG 163

This course is the third in a series of interaction design courses. Students explore the design and development of websites through a series of design and technical workshops. Emphasis is placed on designing and developing responsive website layouts with engaging content. Topics include website planning and development, website frameworks, content management systems, accessibility, and website hosting. This course is intended for graphic design students, interaction design students, and anyone interested in interaction design.

FT; AA/AS; CSU.

DSGN 206 Typography II

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade Only

Prerequisite: DSGN 100 with a Grade of "C" or better, or equivalent and DSGN 102 with a Grade of "C" or better, or equivalent and DSGN 104 with a Grade of "C" or better, or equivalent and DSGN 106 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ARTG 206

This course is the second in a series of courses about typography. Emphasis is placed on using techniques and conceptual strategies to solve complex typographic problems. Topics include historical and contemporary letterforms, letterform construction, cultural typography, and the expressive potential of typography. This course is intended for graphic design students, interaction design students, and anyone interested in typography.

FT; AA/AS; CSU.

DSGN 210 Branding and Packaging

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade Only

Prerequisite: DSGN 100 with a Grade of "C" or better, or equivalent and DSGN 102 with a Grade of "C" or better, or equivalent and DSGN 104 with a Grade of "C" or better, or equivalent and DSGN 106 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ARTG 133

This course covers the application of design principles to branding and packaging systems. Students design a variety of logos, brand touchpoints, and packaging elements through a series of projects. Emphasis is placed on applying research and strategy to create compelling brand identity systems that have clear competitive differentiation. Topics include brand strategy, logo creation, packaging development, and the politics of design. This course is intended for graphic design students, interaction design students, and anyone interested in branding and packaging.

FT; AA/AS; CSU.

DSGN 213 Interaction Design IV

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade Only

Prerequisite: DSGN 143 with a Grade of "C" or better, or equivalent or DSGN 153 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ARTG 173

This course is the fourth in a series of interaction design courses. Emphasis is placed on discovering user needs through human-centered design processes. Topics include user experience research, user interface development, emerging and experimental media, inclusive design, and usability testing. Students identify valuable design opportunities and apply research and strategy techniques to document a range of potential solutions. This course is intended for graphic design students, interaction design students, and anyone interested in interaction design.

FT; AA/AS; CSU.

DSGN 216A Design Studio I

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade Only

Prerequisite: DSGN 100 with a Grade of "C" or better, or equivalent and DSGN 102 with a Grade of "C" or better, or equivalent and DSGN 104 with a Grade of "C" or better, or equivalent and DSGN 106 with a Grade of "C" or better, or equivalent

This is the first in a series of courses that help design students build portfolio projects through professional experiences. Emphasis is placed on a strategic analysis of a specific target audience. Topics include custom typography, sustainable packaging systems, and design projects that follow real world constraints. This course is intended for graphic design and interaction design students.

FT; AA/AS; CSU.

DSGN 216B Design Studio II

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade Only

Prerequisite: DSGN 216A with a Grade of "C" or better, or equivalent

This is the second in a series of courses that help design students build portfolio projects through professional experiences. Emphasis is placed on applying design skills to a collaborative and professional design project. Topics include performing a needs analysis, working in a diverse team, and client relations. This course is intended for graphic design and interaction design students.

FT; AA/AS; CSU.

DSGN 216C Design Studio III

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade Only

Prerequisite: DSGN 216B with a Grade of "C" or better, or equivalent

This is the third in a series of courses that help design students build portfolio projects through professional experiences. Emphasis is placed on the individual execution of a complete client project. Topics include client relationships, design proposals, inclusive persona development, and the execution of a client project. This course is intended for graphic design and interaction design students.

FT; AA/AS; CSU.

DSGN 218 Internship

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade Only

Prerequisite: DSGN 143 with a Grade of "C" or better, or equivalent or DSGN 153 with a Grade of "C" or better, or equivalent or DSGN 206 with a Grade of "C" or better, or equivalent or DSGN 210 with a Grade of "C" or better, or equivalent

This course is a practical study of professional practices for graphic and interaction designers. Students gain real-world experience by applying for and completing an industry internship off site. Emphasis is placed on developing career skills for the graphic design and interaction design fields. Topics include self-promotion, contracts, professional networking, and ethics. This course is intended for graphic design students, interaction design students, and anyone interested in a design internship.

FT; AA/AS; CSU.

DSGN 222 Book Arts II

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: DSGN 100 with a Grade of "C" or better, or equivalent and DSGN 102 with a Grade of "C" or better, or equivalent and DSGN 104 with a Grade of "C" or better, or equivalent and DSGN 106 with a Grade of "C" or better, or equivalent and ARTF 174A with a Grade of "C" or better, or equivalent

This course is the second in a series of book arts courses. Emphasis is placed on contemporary and historical models that serve as departure points for innovative bindings. Topics include an exploration of both non adhesive and adhesive structures, incorporating various board attachments, sewing styles, and endbands. This course is intended for graphic design students, fine art students, interaction design students and anyone interested in book arts.

FT; AA/AS; CSU.

DSGN 248 Portfolio I

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade Only

Prerequisite: DSGN 143 with a Grade of "C" or better, or equivalent and DSGN 153 with a Grade of "C" or better, or equivalent and DSGN 124 with a Grade of "C" or better, or equivalent or DSGN 206 with a Grade of "C" or better, or equivalent and DSGN 210 with a Grade of "C" or better, or equivalent and DSGN 124 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ARTG 155, ARTG 147, or ARTG 148A

This course is the first in a series of portfolio courses. Emphasis is placed on developing a body of work with an authentic style and cultural voice. Topics include design career preparation, personal identity systems, resumes, and portfolio websites. This course is intended for graphic design and interaction design students.

FT; AA/AS; CSU.

DSGN 258 Portfolio II

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade Only

Prerequisite: DSGN 248 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ARTG 147 or ARTG 148B
This course is the second in a series of portfolio courses. Emphasis is placed on revising, expanding, and showcasing existing projects to create a strategic body of work. Topics include advanced portfolio strategies, project development, portfolio website deployment, self promotion, job seeking, and industry ethics. This course is intended for graphic design and interaction design students.

FT; AA/AS; CSU.

DSST: Disability Studies

DSST 101 Introduction to Disability Studies

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course explores the field of disability studies. Topics include disability as a social, cultural, historical, and political phenomenon. Emphasis is placed on various and changing disability definitions, cultural meanings and representations, social justice and human rights issues, and current bioethical debates related to disability. This course is designed for students with or without disabilities who have an interest in social justice issues regarding disability.

FT; AA/AS; CSU; UC.

DSPS-Disability Support Programs and Services

DSGN 270 Work Experience in Design

1-4 hours other; 1-4 units

Grading: Letter Grade Only

Limitation on Enrollment: Obtain Permission Number-Work Exp. Coordinator

This course provides on-the-job learning experience for students employed in a design-related job or internship. Students develop workplace competencies, critical thinking skills, and problem solving abilities through the creation, and achievement of job-related behavioral learning objectives. One unit of credit may be earned for every 54 hours of work experience. A maximum of fourteen credit hours for all work experience subject areas may be earned during one enrollment period. This course is intended for graphic design students, interaction design students, and anyone interested in the design industry.

FT; AA/AS; CSU.

DSGN 290 Independent Study in Design

1-3 hours other; 1-3 units

Grading: Letter Grade Only

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is not open to students with previous credit for ARTG 290

This course is for students interested in individualized learning in the design field. It is not intended to replace an existing course in the discipline. Emphasis is placed on focused research, creating and completing projects, and/or exploring issues related to the design field. A written contract of specific activities and assignments to be completed are assessed and approved by the instructor. Regular meetings between the student and instructor are required to evaluate progress.

FT; AA/AS.

DSPS 20 Introduction to Accessible Computers**16-18 hours lecture; 1 unit****Grading:** Pass/No Pass Only

This course introduces students with disabilities to accessible computer programs and equipment. The course provides an overview of software and hardware resources that allow disabled students to compete in educational and business settings.

DSPS 21 Accessible Computing Lab**0.5-2 hours lab; 0.5-2 units****Grading:** Pass/No Pass Only**Limitation on Enrollment:** This course is not open to students with previous credit for DSPS 076

This course teaches students how to use necessary adaptive hardware or software for computer access. Individualized training is provided for all instructional modules. This course is intended for students who would benefit from adaptive computer access.

DSPS 27 Career Planning for Students with Disabilities**32-36 hours lecture; 2 units****Grading:** Pass/No Pass Only

This course is designed to assist students with disabilities in acquiring an understanding of the world of work. Emphasis is placed on developing and pursuing goals for employment and on identifying community, state and national assistance resources. Throughout the course, students evaluate their individual career goals, analyze their job skills, research the job market and construct an effective resume and cover letter for prospective employers. Course material also emphasizes preparing students to meet the psychological, social and cognitive demands of employment.

FT.**DSPS 34 College Success Skills****16-18 hours lecture; 1 unit****Grading:** Pass/No Pass Only**Limitation on Enrollment:** This course is not open to students with previous credit for Disabled Students Programs and Services (DSPS) 029

This course is designed to assist students with disabilities to achieve their educational goals by providing them with an orientation to the college campus, policies, procedures and support services such as financial aid, tutoring, counseling, computer labs, and career and transfer information. Emphasis is placed on time management, mental and physical health, study skills, self-advocacy, accommodations, and interpersonal relationships as they relate to individual disabilities and college success. Throughout the course, students clarify goals, develop an education plan and identify the courses, services and programs that will lead to their success.

FT.**DSPS 38 Math Strategies for the Learning Disabled****48-54 hours lecture; 3 units****Grading:** Pass/No Pass Only**Limitation on Enrollment:** Obtain Permission Number from Instructor DSPS 038 and DSPS 073 may be repeated three times for combined maximum credit.

This course is designed for students with verified disabilities related to math. It is taught as a lecture class that can be taken independently or in conjunction with Basic Math or Pre-Algebra. This class utilizes a strategies oriented approach for developing competency with fundamental mathematical operations and pre-algebra concepts.

FT.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

DSPS 40 Individual Assessment and Educational Planning

8-9 hours lecture; 0.5 units

Grading: Pass/No Pass Only

Limitation on Enrollment: This course is not open to students with previous credit for Disabled Students Programs and Services (DSPS) 050

This course teaches students about their individual learning aptitude as compared to measured academic achievement. Students use standardized achievement and aptitude assessment instruments in accordance with the California Community College Learning Disabilities Eligibility Model to create a learning profile related to community college academic demands. Other topics include individual cognitive processing strengths and weaknesses, compensatory learning strategies, study skills, and disability management. This course is intended for students who believe they may have a learning disability or those interested in exploring issues related to learning aptitudes.

DSPS 43 Advanced Applied Study Strategies

0.5-1 hours lab; 0.5-1 units

Grading: Pass/No Pass Only

Limitation on Enrollment: Obtain Permission Number from Instructor DSPS 043 and DSPS 083 may be repeated three times for combined maximum credit.

This course is intended primarily for students needing advanced academic disability related support in addition to the campus wide academic support services currently available. The focus of this class is to provide individualized study assistance for students in mainstream degree applicable college classes. Emphasis is placed on the application of study strategies to a specific course. Both study strategies and assistive technology are utilized to meet the demands of a mainstream course content. Computer assisted instruction is used to review related basic skills instruction and to support research skill development.

DSPS 49 Writing Structured Paragraphs

32-36 hours lecture; 2 units

Grading: Pass/No Pass Only

This course is designed for students who demonstrate difficulty with written language. It is intended to prepare students who have a writing-related disability to more successfully meet the minimum college requirements for multi-paragraph essay writing. This course is unique for the highly structured and sequential strategies applied to essay writing. Additionally, the course emphasizes the application of assistive computer technology for facilitating organizational pre-writing strategies, document checking, and written language fluency.

ECON-Economics

ECON 120 Principles of Macroeconomics

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: Successful completion of Intermediate Algebra with a grade of C or better or appropriate placement based on California Title 5 regulations. This course is an introduction to aggregate (macro) economic analysis. Topics include market systems; aggregate measures of economic activity; macroeconomic equilibrium; money and financial institutions; monetary and fiscal policy; international economics; and economic growth. This course is intended for business majors and students interested in macroeconomics.

FT; AA/AS; CSU; UC; C-ID: ECON 202.

ECON 121 Principles of Microeconomics

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: Successful completion of Intermediate Algebra with a grade of C or better or appropriate placement based on California Title 5 regulations. This course is an introduction to economic analysis of specific decision-making sectors in the economy (micro analysis). These sectors include households, firms, and government. Topics covered include productivity and costs for individual firms, industry types, the labor market, anti-trust issues, income distribution, and environmental externalities. This course is intended for business majors and all students interested in microeconomics.

FT; AA/AS; CSU; UC; C-ID: ECON 201.

ECON 220 Economics of the Environment

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course is a study of major environmental issues from an economics perspective. Emphasis is placed on resource management. Market and government responses are evaluated and analyzed. International response to major environmental issues are explored. This course is designed for students interested in majoring in economics, sustainability, environmental science, political science, international studies, or related majors.

FT; AA/AS; CSU; UC.

EDUC-Education

EDUC 44A Supervised Tutoring: Communication 0 units

Grading: Non-credit Course

This course is designed to prepare the student to succeed with the communication skills needed in corequisite and subsequent subject matter courses.

EDUC 44B Supervised Tutoring: Literacy 0 units

Grading: Non-credit Course

This course is designed to prepare the student to succeed with the literacy skills needed in corequisite and subsequent subject matter courses.

EDUC 44C Supervised Tutoring: Quantitative Reasoning 0 units

Grading: Non-credit Course

This course is designed to prepare the student to succeed with the quantitative reasoning needed in corequisite and subsequent subject matter courses.

EDUC 44D Supervised Tutoring: Critical Thinking 0 units

Grading: Non-credit Course

This course is designed to prepare the student to succeed with the critical thinking skills needed in corequisite and subsequent subject matter courses.

EDUC 100 Tutor Training

8-9 hours lecture/0.5 hours lab; 1 unit

Grading: Pass/No Pass Only

This course prepares college-level students for tutoring adult/college students. Student trainees learn about tutoring methods as well as how to use appropriate written and mediated instructional materials. The course includes supervised tutoring practice.

FT; AA/AS; CSU.

EDUC 150 Advanced Tutor Training

8-9 hours lecture/0.5 hours lab; 1 unit

Grading: Pass/No Pass Only

Advisory: EDUC 100 with a Grade of "C" or better, or equivalent

The course is designed to prepare college level persons for tutoring adult/college students in an online environment. Online tutoring methods, use of appropriate written and mediated instructional materials and equipment, and supervised practice tutoring are included in this course. Online tutoring techniques and methodology are emphasized. Laboratory hours are by arrangement with the tutorial center coordinators.

EGEE-Energy and Geo-Environmental Engineering

EGEE 50 Building Science Principles**48-54 hours lecture; 3 units****Grading:** Letter Grade Only

This course is designed to prepare students for the Building Performance Institutes - Building Science Principles - Certificate of Knowledge. Emphasis is placed on how the physical properties of heat, moisture, and airflow affect our homes, and how we can measure their impact and apply scientific principles to the goal of healthier, more energy-efficient homes. Topics include Heating and Insulation, Air and Air Sealing, Moisture and Moisture Control, Mechanical Systems, Conservation Strategies, and United States Department of Energy Home Energy Scores. This course is designed for students interested in Green Building Professional certification, Energy and Geo-Environmental Engineering (EGEE), and the Air Conditioning, Refrigeration, and Environmental Control Technology (AIRE).

FT; AA/AS.**EGEE 55 Air Quality Management and Systems****48-54 hours lecture; 3 units****Grading:** Letter Grade Only

This course is a comprehensive study of air quality management and systems, their operations, and their impacts on the environment. Emphasis is placed on understanding the methods and devices used to improve air quality and comfort. Topics include the benefits of conditioned air and environments, and situations in which the improvement of air quality is essential. This course is designed for students interested in Green Building Professional certification, Air Conditioning, Refrigeration, and Environmental Control Technology (AIRE), and Energy and Geo-Environmental Engineering (EGEE)

FT; AA/AS.**EGEE 70 Energy Industry Principles****48-54 hours lecture; 3 units****Grading:** Letter Grade Only

This course is a study of energy industry principles with an emphasis on new and emerging energy resource types. Topics include energy production and the environment, non-renewable and renewable power plant operations, and the impacts of governmental policy on energy systems. This course is intended for students interested in Green Building Professional certification, Environmental Resource Management, Energy and Power Technology, and Energy and Geo-Environmental Engineering (EGEE).

FT; AA/AS.**EGEE 72 Energy Conservation Strategies****48-54 hours lecture; 3 units****Grading:** Letter Grade Only

This course is designed for students interested in becoming more environmentally responsible. Emphasis is placed on exploring the relationship between energy and the environment, while exploring factors that must be considered when purchasing energy consuming products. Topics include energy supply and demand, energy efficiency, and environmental controls in residential settings. This course is designed for students interested in Green Building Professional certification and Energy and Geo-Environmental Engineering (EGEE).

FT; AA/AS.**EGEE 78 Solar Electric Systems****48-54 hours lecture; 3 units****Grading:** Letter Grade Only

This course is designed for students interested in examining the theories and design practices of solar electric systems in the context of utility and commercial-scale applications. Emphasis is placed on solar photovoltaic (PV) electric systems feasibility, design, and commissioning. Topics include conceptual design of solar electric systems, solar electric technologies, inverter and power management technologies, design theory and economic analysis tools, system design processes for grid-tied and off-grid systems, integration of energy storage and demand response systems, construction project management, permitting, safety and commissioning, system monitoring, and maintenance. This course is designed for students interested in Green Building Energy Professional certification and Energy and Geo-Environmental Engineering (EGEE).

FT; AA/AS.**EGEE 80 Energy Storage****48-54 hours lecture; 3 units****Grading:** Letter Grade Only

This course provides a broad overview of electric energy storage technologies, benefits, economics, California Policies, and a discussion of energy storage in microgrid systems. Emphasis is placed on electric energy storage versus other types of energy storage. Topics include energy storage technology, performance, benefits, and cost. This course is designed for students interested in Green Building Energy Professional certification, Environmental Resource Management, Energy and Power Technology, and Energy and Geo-Environmental Engineering (EGEE).

FT; AA/AS.

EGEE 85 Energy Standard Practice**48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass

This course prepares students for the Associate Energy Analyst (AEA) certification through the California Association of Building Energy Consultants (CABEC). Emphasis is placed on California Title 24, Part 6 Energy Standards and related building energy efficiency topics as well as helping energy consultants stay on the cutting edge of building energy efficiency. Topics include energy basics, code triggers, project assessment, modeling and troubleshooting results, and energy consulting. This course is designed for students interested in the AEA certification as well as those interested in energy efficiency.

FT; AA/AS.**EGEE 95 Interactive Climate Systems****48-54 hours lecture; 3 units****Grading:** Letter Grade Only

This course is a study of the essential principles of Earth's climate system. Emphasis is placed on assessing scientifically credible information about climate. Topics include economic, environmental, and socially responsible sustainability ethics. This course is intended for students interested in learning about the impacts of climate change, the threats they pose, and potential adaptation and mitigation strategies.

FT; AA/AS; CSU.**EGEE 98 Energy Service Entrepreneurship****48-54 hours lecture; 3 units****Grading:** Letter Grade Only

This course is designed for students interested in the principles of establishing and managing a small energy service business, including the preparation of an energy service business plan. Emphasis is placed on goal setting, types of business organizations, obtaining licenses and permits, financing options, accounting aspects, legal requirements, managing the enterprise, and other aspects in small energy business entrepreneurship. Topics include communication and technology, marketing and branding, and leadership and ethics. This course is designed for students interested in small energy business entrepreneurship.

FT; AA/AS.

ELAC-English Language Acquisition**ELAC 5A English Language Grammar - Low-Intermediate/Intermediate****16-18 hours lecture; 1-2 units****Grading:** Pass/No Pass Only**Advisory: Completion of or concurrent enrollment in:**

ELAC 15 with a Grade of "C" or better, or equivalent or Milestone L20 or ELAC 25 with a Grade of "C" or better, or equivalent

This course focuses on the study of English grammar for students whose first language is other than English. Emphasis is placed on clearly communicating one's thoughts and ideas. Topics include analyzing basic grammar structures and applying knowledge of these structures in producing and editing one's own texts. This course is intended for non-native speakers of English at the low-intermediate and intermediate levels.

FT.**ELAC 5B English Language Grammar - High-Intermediate/Advanced****16-18 hours lecture; 1-2 units****Grading:** Pass/No Pass Only**Advisory: Completion of or concurrent enrollment in:**

ELAC 35 with a Grade of "C" or better, or equivalent or ELAC 145 with a Grade of "C" or better, or equivalent or Milestone R40/W40

This course focuses on the study of English grammar for students whose first language is other than English. Emphasis is placed on clearly communicating one's thoughts and ideas. Topics include analyzing more advanced grammar structures and applying knowledge of these structures in producing and editing one's own texts. This course is intended for non-native speakers of English at the high-intermediate and advanced levels.

FT.

ELAC 7 English Pronunciation

16-18 hours lecture; 1-2 units

Grading: Pass/No Pass Only

This course is designed to assist non-native English learners develop oral/aural language skills through the improvement of understanding spoken English and articulation of the language. Emphasis is placed on clear and effective oral/aural communication and pronunciation. Topics include oral/aural discrimination, stress, rhythm, and intonation. This course is intended for non-native speakers of English preparing for college-level coursework.

FT.

ELAC 15 Introduction to English Literacy and Communication

144-162 hours lecture; 9 units

Grading: Letter Grade or Pass/No Pass

Advisory: Assessment Skill Level L19. Students are advised to take the ELAC placement test prior to enrollment and perform at L19.

Limitation on Enrollment: This course is not open to students with previous credit for ENGL 007, ENGL 058, ESOL 019, or ESOL 019A

This course provides non-native English speakers with the skills to integrate reading, writing, grammar, and oral communication at the low-intermediate level. Emphasis is placed on comprehending, summarizing, and interpreting audio and written texts as well as expressing one's own thoughts and opinions. Topics include communicating in an academic setting, applying critical reading strategies, writing paragraphs and short compositions in a variety of genres, as well as analyzing and producing grammatical structures in context. This course is intended for non-native speakers of English preparing for college-level coursework.

FT.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

ELAC 16 Accelerated English Language Acquisition - Low-Intermediate Level

32-36 hours lecture; 2 units

Grading: Pass/No Pass Only

Corequisite: ELAC 15 or Milestone L20 Note: Concurrent enrollment in ELAC 15 is required. Assessment Skill Level L20 is not required.

This course is intended for students who are currently enrolled in English Language Acquisition 15 and who desire additional support or more advanced reading, writing, and grammar activities. Emphasis is placed on deeper learning and understanding of English Language Acquisition 15 course content and producing more rigorous assignments. The course consists of personalized instruction and peer review to revise and expand upon the length and complexity of assignments in English Language Acquisition 15.

FT.

ELAC 23 Academic Listening and Speaking I

96-108 hours lecture; 6 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ELAC 15 with a Grade of "C" or better, or equivalent or Milestone L20

Limitation on Enrollment: This course is not open to students with previous credit for ESOL 022

This course provides non-native English speakers with academic listening and speaking skills at the intermediate level. Emphasis is placed on developing accuracy and fluency in oral communication skills as well as understanding and responding to audio texts from a variety of genres. This course is intended for non-native speakers of English preparing for college-level coursework.

FT.

ELAC 25 Integrated Reading, Writing, and Grammar I

96-108 hours lecture; 6 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ELAC 15 with a Grade of "C" or better, or equivalent or Milestone L20

Limitation on Enrollment: This course is not open to students with previous credit for ENGL 008; ENGL 060; or ESOL 020 + ESOL 021

This course provides non-native English speakers with the skills to integrate reading, writing, and grammar at the intermediate level. Emphasis is placed on applying critical reading strategies to a variety of genres, writing paragraph and multi-paragraph compositions based on assigned readings, and analyzing and producing grammatical structures in context. This course is intended for non-native speakers of English preparing for college-level coursework.

FT.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

ELAC 26 Accelerated English Language Acquisition - Intermediate Level

32-36 hours lecture; 2 units

Grading: Pass/No Pass Only

Corequisite: ELAC 25

This course is intended for students who are currently enrolled in English Language Acquisition 25 and who desire additional support or more advanced reading, writing, and grammar activities. Emphasis is placed on deeper learning and understanding of English Language Acquisition 25 course content. The course consists of personalized instruction and peer review to revise and expand upon the length and complexity of assignments in English Language Acquisition 25.

FT.

ELAC 33 Academic Listening and Speaking II

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ELAC 23 with a Grade of "C" or better, or equivalent or Milestone L30

Limitation on Enrollment: This course is not open to students with previous credit for ESOL 032

This course provides non-native English speakers with academic listening and speaking skills at the high-intermediate to advanced levels. Emphasis is placed on linguistic and interpersonal skills necessary for participation in a variety of formal and informal tasks in the college environment as well as understanding and responding to audio texts from a variety of genres. This course is intended for non-native speakers of English preparing for college-level coursework.

FT.

ELAC 35 Integrated Reading, Writing and Grammar II

96-108 hours lecture; 6 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ELAC 25 with a Grade of "C" or better, or equivalent or Milestone L30

Limitation on Enrollment: This course is not open to students with previous credit for ENGL 009; ENGL 006; or ESOL 030 + ESOL 031

This course provides non-native English speakers with the skills to integrate reading, writing, and grammar at the high-intermediate level. Emphasis is placed on applying critical reading strategies to a variety of genres, writing multi-paragraph compositions (including introduction of the academic essay) based on assigned readings and other sources, and analyzing and producing grammatical structures in context. This course is intended for non-native speakers of English preparing for college-level coursework.

FT.

ELAC 145 Integrated Reading, Writing, and Grammar III

96-108 hours lecture; 6 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ELAC 35 with a Grade of "C" or better, or equivalent or Assessment Skill Level L40

Corequisite: Completion of or concurrent enrollment

in: ELAC 33 with a Grade of "C" or better, or equivalent
Students who meet the prerequisite by completion of ELAC 035 must have completed ELAC 033 or be concurrently enrolled in ELAC 033.

Limitation on Enrollment: This course is not open to students with previous credit for ENGL 010, ENGL 062, ESOL 040, ESOL 045, or ELAC 045

This course provides non-native English speakers with the skills to integrate reading, writing, and grammar at the advanced level. Emphasis is placed on applying critical reading strategies to a variety of genres as well as analysis and synthesis of sources. The course also focuses on writing multi-paragraph compositions (including the academic essay), responding to and integrating sources, as well as analyzing and producing grammatical structures in context. This course is intended for non-native speakers of English preparing for college-level coursework.

FT; AA/AS; CSU; UC.

ELCT-Electricity

ELCT 20 Blueprint Reading for Electricians

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course is a practical survey of blueprint reading for electricians. Emphasis is placed on architectural considerations and electrical symbology for residential, commercial, and industrial blueprints. This course is intended for students in the Electricity program as well as for working electricians who want to further their skills and/or fulfill state certification and accreditation requirements.

FT.

ELCT 30 Modern Commercial Wiring

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course is a study of modern commercial wiring systems. Emphasis is placed on practical application of the material through in-class projects. This course is intended for students in the Electricity program as well as for working electricians who want to further their skills and/or fulfill state certification and accreditation requirements.

FT.

ELCT 40 Data, Voice, and Video Cabling for Electricians

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course is a study of current data, voice, and video cabling systems. Emphasis is placed on practical application of the material through in-class projects. This course is intended for students in the Electricity program as well as for working electricians who want to further their skills and/or fulfill state certification and accreditation requirements.

FT.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

ELCT 111 Electrical Theory I

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Corequisite: ELCT 111L

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a study of the fundamentals of electrical theory, including basic safety practices and a history of industrial electricity and electronics. Emphasis is placed on theory and application of fundamental units of measurement, wire splicing, permanent magnets, electromagnets, and electrical/electronic symbols. Topics include a study of the theory of electricity sources (including batteries, mechanical generators, photocells, and thermocouples), basic Ohm's Law theory, as well as calculations of Direct Current (DC), DC voltage, DC current, resistance, DC power, inductance, and capacitance in DC circuits. This course is designed as preparation for the major in electricity.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

ELCT 111L Electrical Laboratory I

2 hours lab; 2 units

Grading: Letter Grade Only

Corequisite: ELCT 111

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course involves laboratory practice in basic electricity. Laboratory time includes instruction and laboratory assignments in the proper use and care of electrical tools, meters, instruments, and equipment with an emphasis on safe working habits. Laboratory assignments include the application of basic direct and alternating current (AC) circuitry and wattage of fabricated circuits. Students gain additional practice in the development of electrical diagrams using proper symbols and nomenclature. An introduction to inductance and capacitance in direct current (DC) circuits is included. This course is designed as preparation for the major in electricity.

FT; AA/AS; CSU.

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ELCT 121 Electrical Theory II

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: ELCT 111 with a Grade of "C" or better, or equivalent and ELCT 111L with a Grade of "C" or better, or equivalent

Corequisite: ELCT 121L

This course involves a detailed study of the theory of alternating current (AC) including the generation of AC; electrical degrees, effective and average values; addition and subtraction of phasors; resistance, inductance, and capacitance in AC circuits; reactance; and impedance. This course also includes an in-depth study of single-phase series and parallel circuits, three-phase power generation, current and voltage relationships in wye and delta connected power sources and loads. A study of three-phase transformers with various connections and under various load conditions is also included. This course is designed as preparation for the major in electricity.

FT; AA/AS; CSU.

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ELCT 121L Electrical Laboratory II

2 hours lab; 2 units

Grading: Letter Grade Only

Prerequisite: ELCT 111 with a Grade of "C" or better, or equivalent and ELCT 111L with a Grade of "C" or better, or equivalent

Corequisite: ELCT 121

This course involves laboratory practice in direct current and alternating current circuits. Activities include practice with basic direct current (DC) or DC motor circuits, power transmission lines, and instruction in the safe use of three-phase power supplies. This course also includes practice using alternating circuits (AC) or AC voltmeters, AC ammeters, and AC wattmeters to measure phase angle, real power, apparent power, watts, vars, volt-amps, and power factor in single-phase and poly-phase circuits including three-phase circuits with wye and delta connections. This course is designed as preparation for the major in electricity.

FT; AA/AS; CSU.

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ELCT 131 Electrical Theory III

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: ELCT 121 with a Grade of "C" or better, or equivalent and ELCT 121L with a Grade of "C" or better, or equivalent

Corequisite: ELCT 131L

This course involves practice in planning the installation of electrical circuits on construction jobs according to the National Electrical Codes (NEC) and Blueprints. This course also includes practice in making detailed drawings of electrical wiring circuits using standard symbols and estimating the wiring material required to complete a single family dwelling. Planning the installation of communication circuits, heating systems, service entrance equipment, remote control systems, motor starting equipment, circuit protective devices, control components, and pilot devices is also included. This course is designed as preparation for the major in electricity.

FT; AA/AS; CSU.

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ELCT 131L Electrical Laboratory III

2 hours lab; 2 units

Grading: Letter Grade Only

Prerequisite: ELCT 121 with a Grade of "C" or better, or equivalent and ELCT 121L with a Grade of "C" or better, or equivalent

Corequisite: ELCT 131

This course involves laboratory practice in the installation of construction wiring materials including installation and connection of lighting circuits, receptacle circuits, special purpose circuits, communication circuits, heating systems, service entrance equipment, remote control systems, electric motor circuits, and pilot devices. Safety is emphasized through practice in the installation electrical equipment according to blueprints and local and national codes. Instruction and practice in fire prevention and construction site safety habits are also included. This course is designed as preparation for the major in electricity.

FT; AA/AS; CSU.

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ELCT 141 Electrical Theory IV

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: ELCT 131 with a Grade of "C" or better, or equivalent and ELCT 131L with a Grade of "C" or better, or equivalent

Corequisite: ELCT 141L

This course involves the advanced theory of the characteristics and uses of direct current generators, direct current motors, direct current motor controls, alternating current generators, and three-phase motors. This course also includes the advanced theory of the characteristics and uses of three-phase motors and three-phase controllers, single-phase motors and single-phase controllers, electronic devices, and static controls. Digital and logic controls are also investigated. This course is designed as preparation for the major in electricity.

FT; AA/AS; CSU.

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ELCT 141L Electrical Laboratory IV

2 hours lab; 2 units

Grading: Letter Grade Only

Prerequisite: ELCT 131 with a Grade of "C" or better, or equivalent and ELCT 131L with a Grade of "C" or better, or equivalent

Corequisite: ELCT 141

This course involves laboratory practice and experimentation with direct current (DC) generators, DC motors, three-phase alternators, squirrel-cage induction motors, and wound rotor induction motors. This course also includes laboratory practice and experimentation with induction motors, synchronous motors, and single-phase motors, including split phase, capacitor start, universal, and repulsion-start induction run motors. Additionally, experiments are conducted with phase sequence, frequency, selsyn systems, and silicon controlled rectifier (SCR) speed controls. This course is designed as preparation for the major in electricity.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

ELCT 200 Electrical Control Systems

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: ELCT 121 with a Grade of "C" or better, or equivalent and ELCT 121L with a Grade of "C" or better, or equivalent

Corequisite: ELCT 200L

This course is a study of electrical control system theory emphasizing standard motor controls, transducers, static control devices, programmed controllers, and remote electronic controls. This course is intended for students majoring in electricity as well as for working electricians who want to further their skills and/or fulfill state certification and accreditation requirements.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

ELCT 200L Electrical Control Systems Laboratory 2 hours lab; 2 units

Grading: Letter Grade Only

Prerequisite: ELCT 121 with a Grade of "C" or better, or equivalent and ELCT 121L with a Grade of "C" or better, or equivalent

Corequisite: ELCT 200

This course is a hands-on laboratory in electrical control systems. Emphasis is placed on standard motor controls, transducers, static control devices, programmed controllers, and remote electronic controls. This course is intended for students majoring in electricity as well as for working electricians who want to further their skills and/or fulfill state certification and accreditation requirements.

FT; AA/AS; CSU.

ELDT-Electronic Systems

ELDT 123 Introduction to Digital Circuits

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: Concurrent enrollment in: ELDT 123L

Limitation on Enrollment: This course is not open to students with previous credit for ELDT 223 or ELRN 220. This course is designed for students majoring in electronics and for students generally interested in electronics. It is an introduction to digital technology with an emphasis on understanding, constructing and troubleshooting digital integrated circuits. Course content includes number systems and codes, truth tables, Boolean functions, combinational logic, flip-flops, shift registers, counters, device characteristics, and programmable logic devices.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

ELDT 123L Digital Circuits Laboratory 1 hour lab; 1 unit

Grading: Letter Grade Only

Corequisite: Completion of or concurrent enrollment in: ELDT 123 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ELRN 222A, or ELDT 223L. This laboratory course is designed to demonstrate introductory concepts of digital technology. Topics include a variety of digital electronic components and circuits. Emphasis is placed on developing skills in designing, analyzing, and constructing simple logic circuits, including basic digital blocks, combinational networks, and sequential networks. This course is designed for students majoring in electronics and those interested in electronics.

FT; AA/AS; CSU.

ELDT 124 Basic DC Electronics

64-72 hours lecture; 4 units

Grading: Letter Grade Only

Advisory: Concurrent enrollment in: ELDT 124L

Limitation on Enrollment: This course is not open to students with previous credit for ELRN 120 or ELRN 120A or ELCT 111 or AVIM 120.

This course is a study of basic electricity and electrical circuit concepts. Course content includes direct current (DC), series and parallel circuits, Ohm's and Kirchhoff's Laws, mesh and nodal analysis, the Superposition Theorem, and Thevenin's and Norton's Theorems. Throughout the course, students apply the concepts of basic electronics to solve problems commonly found in industrial settings. This course is designed for students interested in learning DC electronics.

FT; AA/AS; CSU.

ELDT 124L Basic DC Laboratory

1 hour lab; 1 unit

Grading: Letter Grade Only

Advisory: Concurrent enrollment in: ELDT 124

Limitation on Enrollment: This course is not open to students with previous credit for ELRN 121 or ELRN 121A or ELRN 123 or AVIM 121A or ELCT 111L.

This laboratory course demonstrates the basic concepts of electricity and electrical circuits and familiarizes students with various electronic components and circuits. Course content is designed to develop students skills in reading schematic diagrams, fabricating simple circuits and safely using basic test equipment for measuring and troubleshooting. Equipment used in this lab includes volt-ohm-amp meters, digital multimeters (DMMs), and power supplies. This course is designed for students interested in acquiring laboratory skills in DC electronics.

FT; AA/AS; CSU.

ELDT 125 AC Circuit Analysis

64-72 hours lecture; 4 units

Grading: Letter Grade Only

Advisory: ELDT 124 with a Grade of "C" or better, or equivalent and ELDT 124L with a Grade of "C" or better, or equivalent

Advisory: Concurrent enrollment in: ELDT 125L

This course is a study of alternating current (AC) electronic concepts. Course material includes the study of inductor and capacitor transients in direct current (DC) circuits, alternating current (AC) electronic basics, impedance, phasors, power and energy in series, parallel and combination circuits, network theorems, transformers, passive filters and response curves. This course is designed for students interested in learning AC electronics.

FT; AA/AS; CSU.

ELDT 125L DC/AC Circuit Analysis Laboratory with Pspice

1 hour lab; 1 unit

Grading: Letter Grade Only

Advisory: ELDT 124 with a Grade of "C" or better, or equivalent

ELDT 124L with a Grade of "C" or better, or equivalent

Advisory: Concurrent enrollment in: ELDT 125

Limitation on Enrollment: This course is not open to students with previous credit for Digital Technology 125L. This laboratory course demonstrates the basic concepts of hands-on and computer-assisted direct current and alternating current (DC/AC) circuit analysis. Equipment used in this course includes oscilloscopes, frequency counters, function generators, digital multimeters (DMM) and microcomputers utilizing industry standard software applications (PSpice). This course is designed for students interested in learning PSPICE and acquiring laboratory skills in AC electronics.

FT; AA/AS; CSU.

ELDT 126 Using C AND C++ for Technology

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: Concurrent enrollment in: ELDT 126L

This course is an introduction to the C and C++ programming languages as they apply to the analysis of the theoretical concepts of electronic technology. The course is structured around a variety of prepared programming assignments that emphasize problem-solving techniques and use of the computer as a problem-solving tool with applications in electronics. Students work with state of the art and industry standard microcomputers, hardware, software application programs, and compilers. This course is designed as preparation for majors in the field of Electronics.

FT; AA/AS; CSU.

ELDT 126L Using C and C++ for Technology Laboratory

1 hour lab; 1 unit

Grading: Letter Grade Only

Advisory: Concurrent enrollment in: ELDT 126

This course provides the laboratory component to the study of C and C++ programming languages as they apply to the analysis of the theoretical concepts of electronic technology. The course is structured around a variety of prepared programming assignments that emphasize problem-solving techniques and use of the computer as a problem-solving tool with applications in electronics. Students work with state of the art and industry standard microcomputers, hardware, software application programs and compilers. This course is designed as preparation for majors in the field of Electronics.

FT; AA/AS; CSU.

ELDT 143 Semiconductor Devices

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: ELDT 124 with a Grade of "C" or better, or equivalent and ELDT 124L with a Grade of "C" or better, or equivalent

Advisory: Concurrent enrollment in: ELDT 143L

This course is an introductory study of the characteristics and operation of semiconductor devices and their associated circuitry. Emphasis is placed on junction diodes, bipolar junction transistors, power supplies, feedback, linear integrates circuits (ICs), multistage amplifiers, push-pull amplifiers, junction field-effect transistors (JFETs), metal oxide semiconductor field-effect transistors (MOSFETs) and PSpice analysis.

FT; AA/AS; CSU.

ELDT 143L Semiconductor Devices Laboratory

1.5 hours lab; 1.5 units

Grading: Letter Grade Only

Advisory: ELDT 124 with a Grade of "C" or better, or equivalent and ELDT 124L with a Grade of "C" or better, or equivalent

Advisory: Concurrent enrollment in: ELDT 143

This laboratory course focuses on the theoretical concepts of electronic devices and circuits through practical experimentation, PSpice analysis and computer simulation. Course content and materials include circuit operation, testing, troubleshooting and measurement of diodes, transistors and field-effect transistors (FETs), the use of computer-aided engineering software, microcomputers, oscilloscopes, digital multimeters (DMMs), function generators and power supplies.

FT; AA/AS; CSU.

ELDT 144 OP-AMPS, Sensors and Computers

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: Concurrent enrollment in: ELDT 144L

Advisory: Completion of or concurrent enrollment in: ELDT 143 with a Grade of "C" or better, or equivalent and ELDT 143L with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for Digital Technology (ELDT) 144

This course is a study of operational amplifier theory and circuit applications. Course content emphasizes sensors, transducers, data conversions and the associated circuitry necessary to condition outputs for interface to a computer. Applications to analog-to-digital and digital-to-analog conversions, optical sensors, displacement transducers and instrumentation devices are included. This course is designed as preparation for majors in the field of Electronics.

FT; AA/AS; CSU.

ELDT 144L OP-AMPS and Sensors Laboratory

1.5 hours lab; 1.5 units

Grading: Letter Grade Only

Advisory: Concurrent enrollment in: ELDT 144

Advisory: Completion of or concurrent enrollment in: ELDT 143 with a Grade of "C" or better, or equivalent and ELDT 143L with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for Digital Technology (ELDT) 144L

This course provides the laboratory component to the study of operational amplifier theory and circuit applications. Course content emphasizes sensors, transducers, data conversions and the associated circuitry necessary to condition outputs for interface to a computer. Applications to analog-to-digital and digital-to-analog conversions, optical sensors, displacement transducers and instrumentation devices are included. This course is designed as preparation for majors in the field of Electronics.

FT; AA/AS; CSU.

ELDT 224 Microprocessor Design

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: Concurrent enrollment in: ELDT 224L

Advisory: Completion of or concurrent enrollment in: ELDT 123 with a Grade of "C" or better, or equivalent and ELDT 123L with a Grade of "C" or better, or equivalent

This course is an applied study of digital circuits in microcomputer systems. Throughout the course, students examine the overall architecture of microcomputer systems, the interfacing of memory and input/output (I/O) devices, and machine language programming for the Z-80 microprocessor

FT; AA/AS; CSU.

ELDT 224L Microprocessor Design Laboratory

1.5 hours lab; 1.5 units

Grading: Letter Grade Only

Advisory: Concurrent enrollment in: ELDT 224

Advisory: Completion of or concurrent enrollment in: ELDT 123 with a Grade of "C" or better, or equivalent and ELDT 123L with a Grade of "C" or better, or equivalent

This laboratory course demonstrates the application of digital circuits in microprocessor systems. Course content includes assembly of printed circuit boards, troubleshooting of microprocessor-based designs and software/firmware design and troubleshooting.

FT; AA/AS; CSU.

ELDT 225 Microcontrollers**48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Corequisite: Completion of or concurrent enrollment in:** ELDT 123 with a Grade of "C" or better, or equivalent and ELDT 124 with a Grade of "C" or better, or equivalent and ELDT 225L with a Grade of "C" or better, or equivalent and **Advisory:** MATH 107 with a Grade of "C" or better, or equivalent

This course focuses on the fundamentals of both the hardware and software aspects of the microcontroller. Typical devices that are connected to the microcontroller are: switches, light emitting diodes, seven segment displays, stepper motors and a matrix keypad. An engineering evaluation board is used as the development system for the controller. Structured programming and flow charts are emphasized. Code is written in assembly language, compiled and then downloaded to the controller. This course is intended for students majoring in Engineering Technology.

FT; AA/AS; CSU.**ELDT 225L Microcontrollers Laboratory****1.5 hours lab; 1.5 units****Grading:** Letter Grade Only**Corequisite: Completion of or concurrent enrollment in:** ELDT 123L with a Grade of "C" or better, or equivalent and ELDT 124L with a Grade of "C" or better, or equivalent and ELDT 225 with a Grade of "C" or better, or equivalent This laboratory demonstrates microcontroller applications. The course emphasizes microcontroller construction, design, programming and troubleshooting. Students conduct the laboratory with a software development kit (SDK) and microcontroller trainer equipment.**FT; AA/AS; CSU.****ELDT 227 Introduction to Lasers and Fiber Optics****48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Advisory: Concurrent enrollment in:** ELDT 227L**Advisory: Completion of or concurrent enrollment in:** ELDT 124 with a Grade of "C" or better, or equivalent and ELDT 124L with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for Digital Technology (ELDT) 144

This course is an introductory study of lasers, optical power meters and laser systems designed to familiarize students with various industry supported lasers/fiber optics families. Emphasis is placed on providing students with a working knowledge of lasers and the ability to troubleshoot in the field. Topics covered include the properties of light, emission and absorption of light, lasing action, the temporal and spatial characteristics of lasers, optical energy, optical fibers, light sources, light receivers, fiber optic geometry, alignment and splicing techniques, communication links, and fiber optic system design.

FT; AA/AS; CSU.**ELDT 227L Lasers and Fiber Optics Laboratory****1 hour lab; 1 unit****Grading:** Letter Grade Only**Advisory: Concurrent enrollment in:** ELDT 227**Advisory: Completion of or concurrent enrollment in:** ELDT 124 with a Grade of "C" or better, or equivalent and ELDT 124L with a Grade of "C" or better, or equivalent This laboratory course is designed to familiarize students with the elements and operation of lasers, optical power meters and laser and fiber optics systems through experiments and projects conducted individually and in groups. This course provides students with the opportunity to enhance and further investigate the concepts presented in Electronics Systems 227.**FT; AA/AS; CSU.**

ELDT 228 Communication Circuits**48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Advisory: Concurrent enrollment in:** ELDT 228L**Advisory: Completion of or concurrent enrollment in:**

ELDT 143 with a Grade of "C" or better, or equivalent and ELDT 143L with a Grade of "C" or better, or equivalent and ELDT 144 with a Grade of "C" or better, or equivalent and ELDT 144L with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for Digital Technology 228. This course is a study of basic communication theory, circuitry, and troubleshooting including transmission and reception of Amplitude Modulated (AM), Frequency Modulated (FM), and digital signals. The course is intended for students seeking careers in radio, TV and digital data communication technology, and the telecommunication industry.

FT; AA/AS; CSU.**ELDT 228L Communication Circuits and Certification Laboratory****1 hour lab; 1 unit****Grading:** Letter Grade Only**Advisory: Concurrent enrollment in:** ELDT 228**Advisory: Completion of or concurrent enrollment in:**

ELDT 143 with a Grade of "C" or better, or equivalent and ELDT 143L with a Grade of "C" or better, or equivalent and ELDT 144 with a Grade of "C" or better, or equivalent and ELDT 144L with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for Digital Technology (ELDT) 228L.

This laboratory course is a verification of the basic concepts of communication theory and mastery of the basic electronic instruments used in industry. This course is designed to prepare students to take the Associate Electronics Technician (CET) and the 3rd Class Radio Telecommunications Technician (NARTE) examinations.

FT; AA/AS; CSU.**ELDT 229 Advanced Telecommunications Networks****48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Advisory: Concurrent enrollment in:** ELDT 229L**Advisory: Completion of or concurrent enrollment in:**

ELDT 126 with a Grade of "C" or better, or equivalent and ELDT 126L with a Grade of "C" or better, or equivalent and ELDT 228 with a Grade of "C" or better, or equivalent and ELDT 228L with a Grade of "C" or better, or equivalent

This course is a project-oriented study of local, metropolitan and wide-area network hardware system design, installation, maintenance and troubleshooting. Hardware topics presented include topologies, transmission media, access and interfacing techniques, and hardware technologies utilized include Fiber Distributed Data Interface (FDDI), Asynchronous Transfer Mode (ATM), Fast Internet and Token Ring. This course prepares students to take the Network Plus exam.

FT; AA/AS; CSU.**ELDT 229L Advanced Telecommunications Networks Laboratory****1 hour lab; 1 unit****Grading:** Letter Grade Only**Advisory: Concurrent enrollment in:** ELDT 229**Advisory: Completion of or concurrent enrollment in:**

ELDT 126 with a Grade of "C" or better, or equivalent and ELDT 126L with a Grade of "C" or better, or equivalent and ELDT 228 with a Grade of "C" or better, or equivalent and ELDT 228L with a Grade of "C" or better, or equivalent

This is a team project-oriented course that familiarizes students with the hardware and software needed to establish, run and maintain advanced telecommunications networks at the local, metropolitan and wide-area levels.

FT; AA/AS; CSU.

ELDT 232 Advanced Computer Design and Interfacing

64-72 hours lecture; 4 units

Grading: Letter Grade Only

Prerequisite: ELDT 225 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ELDT 230 and ELDT 231. This course is an advanced, practical study of operating systems, microprocessor and microcontroller chips, system configurations, and bus architecture from a systems design perspective. This project-oriented course examines microprocessor machine language programming, hardware devices, hardware designs, system clock generation, bus characteristics, tri-state characteristics, buffers, input/output (I/O) techniques for interfacing to various peripherals, major microprocessor and microcontroller families, timing diagrams, memory, and chip-level troubleshooting. This course is intended for students wanting to gain detailed knowledge about design, interfacing, and programming of microprocessor and microcontroller systems.

FT; AA/AS; CSU.

ELDT 232L Advanced Computer Designs Laboratory

1.5 hours lab; 1.5 units

Grading: Letter Grade Only

Advisory: Completion of or concurrent enrollment in: ELDT 225 with a Grade of "C" or better, or equivalent and ELDT 225L with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ELDT 230L. This is a practical course designed as a verification of the student's understanding of the theoretical concepts of computer and microcontroller based designs through construction and testing of a complete microcontroller system. Throughout the course, students work with several pieces of electronic test equipment currently used in the industry in order to build and troubleshoot their projects. Students are expected to locate and purchase necessary components and bread boarding materials. This course is intended for students wanting experience in designing, constructing, and testing advanced microprocessor and microcontroller systems.

FT; AA/AS; CSU.

ELDT 270 Work Experience

1-4 hours other; 1-4 units

Grading: Letter Grade Only

Limitation on Enrollment: Obtain Permission Number-Work Exp. Coordinator

To receive credit a student must complete a minimum of seven units during the semester, including work experience.

This course is not open to students with previous credit for Digital Technology (ELDT) 270

A program of on-the-job learning experiences for students employed in a job related to their major. One unit of credit may be earned for every 54 hours of work experience. A maximum of fourteen credit hours for all work experience subject areas may be earned during one enrollment period.

ELDT 290 Independent Study

1-3 hours other; 1-3 units

Grading: Letter Grade Only

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is not open to students with previous credit for Digital Technology (ELDT) 290

For advanced students in Electronic Systems or Electro-Optical Technology who wish to pursue special problems and projects relating to their particular subject area. The student meets with the instructor at specific intervals and is expected to do primary research, analyze problems and submit reports.

FT; AA/AS; CSU.

ENGE-Engineering

ENGE 50A Introduction to Robotics Team Project Design**16-18 hours lecture/0.5 hours lab; 1.5 units****Grading:** Pass/No Pass Only**Limitation on Enrollment:** This course is not open to students with previous credit for ENGE 265A

This introductory course addresses the knowledge, skills and activities needed to understand and promote the design phase of a robotics competition team. Team building and collaborative learning are stressed. Students design an autonomous robot using state-of-the-art computer software that supports the engineering disciplines of mechanical, electrical, computer programming, web design, and technical writing. This course is intended for students with an interest in robotics who need to gain experience as members of an engineering design team.

FT; AA/AS.**ENGE 50B Introduction to Robotics Team Project Construction****16-18 hours lecture/0.5 hours lab; 1.5 units****Grading:** Pass/No Pass Only**Limitation on Enrollment:** This course is not open to students with previous credit for ENGE 265A

This introductory course addresses the knowledge, skills and activities needed to organize and promote the construction phase of a robotics competition team. Team building and collaborative learning are stressed. Students construct an autonomous robot using state-of-the-art computer software that supports the engineering disciplines of mechanical, electrical, computer programming, web design, and technical writing. This course is intended for students with an interest in robotics who need to gain experience as members of an engineering team constructing a new design.

FT; AA/AS.**ENGE 50C Introduction to Robotics Team Project Testing and Deployment****16-18 hours lecture/0.5 hours lab; 1.5 units****Grading:** Pass/No Pass Only**Limitation on Enrollment:** This course is not open to students with previous credit for ENGE 265A

This introductory course addresses the knowledge, skills and activities needed to organize and promote the testing and competition phases of a robotics competition team. Team efficiency and collaborative learning are stressed. Students aid in the testing and deployment of an autonomous robot using state-of-the-art computer software that supports the engineering disciplines of mechanical, electrical, computer programming, web design, and technical writing. This course is intended for students with an interest in robotics who need to gain experience as members of an engineering team testing and deploying a new design.

FT; AA/AS.**ENGE 50D Advanced Robotics Team Project Design****16-18 hours lecture/0.5 hours lab; 1.5 units****Grading:** Pass/No Pass Only**Advisory:** ENGE 50A with a Grade of "C" or better, or equivalent

This advanced course addresses the knowledge, skills and activities needed to organize, promote, and manage the design phase of a robotics competition team. Evaluation of research is used to develop an improved design using state-of-the-art computer software that supports the engineering disciplines of mechanical, electrical, computer programming, web design, and technical writing. This course is intended for advanced students with an interest in robotics who need to gain experience as managers of an engineering design team.

FT; AA/AS.

ENGE 50E Advanced Robotics Team Project Construction**16-18 hours lecture/0.5 hours lab; 1.5 units****Grading:** Pass/No Pass Only**Advisory:** ENGE 50B with a Grade of "C" or better, or equivalent

This advanced course addresses the knowledge, skills and activities needed to organize, promote, and manage the construction phase of a robotics competition team. Students supervise the construction of electrical, mechanical, and computer systems for an autonomous robot using state-of-the-art computer software that supports the engineering disciplines of mechanical, electrical, computer programming, web design, and technical writing. This course is intended for advanced students with an interest in robotics who need to gain experience as supervisors of an engineering team constructing a new design.

FT; AA/AS.**ENGE 50F Advanced Robotics Team Project Testing and Deployment****16-18 hours lecture/0.5 hours lab; 1.5 units****Grading:** Pass/No Pass Only**Advisory:** ENGE 50C with a Grade of "C" or better, or equivalent

This advanced course addresses the knowledge, skills and activities needed to manage the testing and deployment phases of a robotics design for competition. Students manage the testing and deployment of an autonomous robot using state-of-the-art computer software supporting the engineering disciplines of mechanical, electrical, computer programming, web design, and technical writing. This course is intended for advanced students with an interest in robotics who need to gain experience as members of an engineering team testing and deploying a new design.

FT; AA/AS.**ENGE 101 Introduction to Engineering****24-27 hours lecture; 1.5 units****Grading:** Letter Grade or Pass/No Pass**Limitation on Enrollment:** This course is not open to students with previous credit for ENGE 265B: Introduction to Engineering

This course is an introduction to engineering in the work environment, including familiarization with the different occupations of engineering. Emphasis is placed on engineering requirements, analysis, design, implementation and testing of actual engineering problems. Students learn the proper use of engineering tools including computers, statistics and computer simulations. This course is designed to help students decide whether to embark on an engineering or technical career.

FT; AA/AS; CSU.**ENGE 108 Dimensioning and Tolerancing****48-54 hours lecture; 3 units****Grading:** Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for MAFG 108 or MFET 105. This course is an introductory study of dimensioning and tolerancing. The course content emphasizes symbology, datum reference, tolerances of location and of form and runout, and includes a complete orientation to American National Standard Institute Standard Y14.5. This course is intended for students majoring in Engineering or disciplines included in the physical sciences.

FT; AA/AS; CSU.**ENGE 111 Introduction to Computer-Aided Design****32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for DRAF 111

This course is an introductory study of computer-aided design, engineering, and manufacturing. Emphasis is placed on providing the student with a hands-on overview of microcomputer systems and executable features of interactive software programs that are used in industry. This course is intended for students majoring in Engineering or disciplines included in the physical sciences.

FT; AA/AS; CSU.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

ENGE 116 Computational Methods in Engineering
32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Corequisite: Completion of or concurrent enrollment in: MATH 151 with a Grade of "C" or better, or equivalent

This course introduces students to computational methods and their applications to computer-based problem solving for engineers. Students formulate and solve engineering problems through modeling and the application of numerical methods, then evaluate and rationalize the results using Matlab computational engineering software. Topics include functions and arrays, data and file management, loops, control flow, and standard library packages and software. Numerical methods covered include matrix operations, Gauss Reduction, Newton Raphson, curve fitting, interpolation, numerical differentiation and numerical integration. Engineering application include finite element analysis, dynamics, computational fluid mechanics, data visualization and image analysis. This course is designed for students majoring in engineering.

FT; AA/AS; CSU; UC.

ENGE 151 Computer-Aided Design

2 hours lab; 2 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: Successful completion of Intermediate Algebra with a grade of C or better or appropriate placement based on California Title 5 regulations.

This course is an introduction to 3D computer-aided mechanical design using SolidWorks software. Emphasis is placed on the creation of basic to intermediate solid parts, the application of parametric 3D feature-based solid modeling, assignments of materials, building assemblies, developing exploded views and production drawings that include orthographic, pictorial, section, auxiliary, and detail views. Students apply software features, such as finite element analysis (FEA) and motion simulation. The course begins by covering basic features of all parts, continues with building simple assemblies with those parts, and culminates with creating both detail part and assembly output-product drawings. Students apply skills to group design projects, which include written reports and mechanical dimensioning using ANSI standards, Geometric Dimensioning and Tolerancing (GD&T), and thread notation per ASME Y14.5M-2009. Laboratory exercises that include industrial applications and practices are designed to strengthen these concepts. This course is intended for students majoring in Engineering or other disciplines including those in the physical sciences, and is designed for those with or without previous 3D CAD modeling application experience.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

ENGE 151 Computer-Aided Design

2 hours lab; 2 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: Successful completion of Intermediate Algebra with a grade of C or better or appropriate placement based on California Title 5 regulations.

This course is an introduction to 3D computer-aided mechanical design using SolidWorks software. Emphasis is placed on the creation of basic to intermediate solid parts, the application of parametric 3D feature-based solid modeling, assignments of materials, building assemblies, developing exploded views and production drawings that include orthographic, pictorial, section, auxiliary, and detail views. Students apply software features, such as finite element analysis (FEA) and motion simulation. The course begins by covering basic features of all parts, continues with building simple assemblies with those parts, and culminates with creating both detail part and assembly output-product drawings. Students apply skills to group design projects, which include written reports and mechanical dimensioning using ANSI standards, Geometric Dimensioning and Tolerancing (GD&T), and thread notation per ASME Y14.5M-2009. Laboratory exercises that include industrial applications and practices are designed to strengthen these concepts. This course is intended for students majoring in Engineering or other disciplines including those in the physical sciences, and is designed for those with or without previous 3D CAD modeling application experience.

FT; AA/AS; CSU; UC.

ENGE 152 Engineering Design

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Prerequisite: ENGE 151 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DRAF 120
This course is a study of engineering design with an emphasis on the presentation and interpretation of engineering drawings. Course content includes tolerance studies, gear and Computer-Aided Manufacturing (CAM) design, as well as fit and function studies relating to manufacturing processes with Computer-Aided Drawing (CAD) as they influence design decisions. This course is intended for students majoring in Engineering or disciplines included in the physical sciences.

FT; AA/AS; CSU.

ENGE 200 Statics

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: PHYS 195 with a Grade of "C" or better, or equivalent

Corequisite: Completion of or concurrent enrollment in: MATH 151 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ENGN 150

This course is a study of applications of the principles of mechanics to rigid bodies in equilibrium. The course content emphasizes areas of friction, centroids, center of gravity, analysis of structures, moments of inertia and methods of virtual work. This course is intended for students majoring in Engineering or disciplines included in the physical sciences.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

ENGE 200 Statics

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: PHYS 195 with a Grade of "C" or better, or equivalent

Corequisite: Completion of or concurrent enrollment in: MATH 151 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ENGN 150

This course is a study of applications of the principles of mechanics to rigid bodies in equilibrium. The course content emphasizes areas of friction, centroids, center of gravity, analysis of structures, moments of inertia and methods of virtual work. This course is intended for students majoring in Engineering or disciplines included in the physical sciences.

FT; AA/AS; CSU; UC.

ENGE 210 Properties of Materials**48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Prerequisite:** PHYS 195 with a Grade of "C" or better, or equivalent**Corequisite: Completion of or concurrent enrollment in:** CHEM 200 with a Grade of "C" or better, or equivalent and CHEM 200L with a Grade of "C" or better, or equivalent

This course is a study of the chemical, physical and mechanical properties of engineering materials including metals, ceramics, polymers and composites. Emphasis is placed on function and structure as they relate to specific design considerations. This course is intended for students majoring in Engineering or disciplines included in the physical sciences.

FT; AA/AS; CSU; UC.**ENGE 240 Digital Systems****48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for PHYN 265: Digital Systems

This course is an introduction to modeling, analysis, and design of digital systems primarily at the Logic Design Level. Students apply the basic theory of switching networks, use Boolean Algebra to analyze and synthesize switching networks, design logic gate networks, use simplification schemes to minimize part count and cost while providing optimum performance, and design and analyze sequential and combinational circuits using flip-flops and logic gate networks. This course is designed for students majoring in engineering or disciplines included in the physical sciences.

FT; AA/AS; CSU; UC.**ENGE 250 Dynamics****48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Prerequisite:** ENGE 200 with a Grade of "C" or better, or equivalent**Corequisite: Completion of or concurrent enrollment in:** MATH 252 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for ENGN 250

This course is a study of fundamental principles of bodies in motion with an emphasis on kinematics and kinetics of particles and rigid bodies, moving reference frames, work-energy, linear and angular momentum relationships and their application to engineering problems. Vector notation is used throughout the course. This course is intended for students majoring in Engineering or disciplines included in the physical sciences.

FT; AA/AS; CSU; UC.**ENGE 260 Electric Circuits****48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Prerequisite:** PHYS 196 with a Grade of "C" or better, or equivalent and MATH 151 with a Grade of "C" or better, or equivalent

This course is an introduction to the study of network analysis, basic network theorems, mesh and nodal analysis with independent and controlled sources. Emphasis is placed on steady state and transient responses of networks, complex frequency transformation, alternating current (AC), circuit analysis, power, reactive apparent power and power factor, and balanced three-phase electric systems. This course is intended for students majoring in Engineering or disciplines included in the physical sciences.

FT; AA/AS; CSU; UC.**ENGE 270 Work Experience****1-4 hours other; 1-4 units****Grading:** Letter Grade or Pass/No Pass**Limitation on Enrollment:** Obtain Permission Number-Work Exp. Coordinator

A program of on-the-job learning experiences for students employed in a job related to their major or their educational goal. The combined maximum credit for all work experience courses from all disciplines may not exceed 16 units.

ENGE 290 Independent Study**1-3 hours other; 1-3 units****Grading:** Letter Grade or Pass/No Pass**Limitation on Enrollment:** Obtain Permission Number from Instructor

For advanced students in engineering who wish to pursue special problems and projects relating to their particular subject area. The student meets with the instructor at specific intervals and is expected to do primary research, analyze problems and submit reports.

FT; AA/AS; CSU.

ENGL-English

ENGL 101-Reading and Composition and ENGL 205-Critical Thinking and Intermediate Composition have been renumbered to ENGL C1000-Academic Reading and Writing and ENGL C1001-Critical Thinking and Writing, respectively.

ENGL 31 Academic Literacy

32-36 hours lecture; 2 units

Grading: Pass/No Pass Only

Prerequisite: ELAC 145 with a Grade of "C" or better, or equivalent or Milestone R40/W40 or **Corequisite:** ENGL 101 or ENGL 105

This is a course for students who have assessed into basic skills English courses and desire to concurrently enroll in English 101: Reading and Composition or English 105: Composition and Literature. Academic Literacy creates success in English 101 or 105 by focusing on reading, writing, and critical thinking. Students learn to articulate arguments, create academic identities, and build and strengthen relationships with texts, others, and themselves.

FT.

ENGL 44 Supervised Tutoring in English

0 units

Grading: Non-credit Course

This course is designed to prepare the student to succeed in the corequisite and subsequent subject matter courses. This course may be taken four times with a different corequisite subject matter course.

ENGL 105 Composition and Literature

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ELAC 145 with a Grade of "C" or better, or equivalent or Milestone R40/W40 Students with Milestone R30/W30 must enroll in ENGL 105X (ENGL 105 and ENGL 31 learning community).

This is a composition course using literature as a background for improving writing skills. Students discuss the general nature and elements of literature and literary criticism by reading and analyzing representative works of fiction, drama, and poetry. Based on this subject matter, students are required to write a variety of critical papers, including a research paper, comprising at least 6,000 graded words. This course is intended for students majoring in English or those students interested in literature and in developing strong critical and analytical writing skills. Designated sections of this course may be taught from a specific cultural perspective.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

ENGL 202 Introduction to Linguistics

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is designed to introduce students to the field of linguistics. In this course, students develop an understanding of the nature of language through the study of core areas in linguistics, including phonetics, phonology, morphology, syntax, semantics, and pragmatics. Students also read, write, and think critically about related fields such as psycholinguistics, sociolinguistics, historical linguistics, and animal communication. This course is intended for students majoring in English or those with a general interest in linguistics.

FT; AA/AS; CSU; UC.

ENGL 208 Introduction to Literature

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course provides an inquiry into the basic nature of literature. Students read and analyze representative literary works in fiction, non-fiction, poetry, and drama from various cultures and periods, applying practical critical techniques in essays, reports, and exams. This course is designed for students with a general interest in literature as well as for those majoring in the field.

FT; AA/AS; CSU; UC; C-ID: ENGL 120.

ENGL 209 Literary Approaches to Film**48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course is a study of film from a literary perspective. Emphasis is placed on reading and writing about film, film analysis, and cultural impact. Topics include film composition, genre, and literary criticism. This course is designed for English majors and all students interested in literature and/or film.

FT; AA/AS; CSU; UC.**ENGL 210 American Literature I****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course is a survey of American literature from its beginning to the late 19th century, including representative works from the Colonial Period (1588-1765), the New Republic (1765-1829), the American Renaissance (1829-1860), and the beginnings of Realism (1860-1880). Students critically analyze and discuss diverse authors of these periods, addressing relevant historical, social, political, philosophical, aesthetic, cultural, and religious issues. This course is intended for English majors and anyone interested in American Literature.

FT; AA/AS; CSU; UC; C-ID: ENGL 130.**ENGL 211 American Literature II****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

A survey of American Literature from the late 19th century to the present, which includes representative works from the Age of Realism (1865-1914), the Modernist Period (1914-1945), and the Postmodern Era (1950-present). Students critically analyze and discuss diverse authors of these periods, addressing relevant historical, social, political, philosophical, aesthetic, cultural, and religious issues. This course is intended for English majors and anyone interested in American Literature.

FT; AA/AS; CSU; UC; C-ID: ENGL 135.**ENGL 215 English Literature I: 800-1799****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course offers a survey of British literature from the Anglo-Saxon period to the pre-Romantic period (approximately 800 to 1799), including representative works from the Old and Middle English periods, the Renaissance and the Elizabethans, the Cavalier, Metaphysical, and Puritan periods, the Restoration and the Neoclassical periods. Students read and discuss the major authors of these periods, addressing relevant social, political, cultural, and religious issues. Through a variety of learning activities and assignments, students critically engage with specific works and their literary, cultural, historical and political significance, considering the interplay between text and context. This course is intended for English majors and all students interested in literature.

FT; AA/AS; CSU; UC; C-ID: ENGL 160.**ENGL 216 English Literature II: 1800 - Present****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course offers a survey of British literature from the Romantic period to the 21st century (approximately 1800 to the present) including representative works from the pre-Romantic and Romantic periods; the Victorian and later Victorian period; the Modern period; the Postmodern period; the postcolonial era; and the contemporary era. Students read and discuss the major authors of these periods, addressing relevant social, political, cultural, and religious issues. Students also critically analyze, in essays and research papers, authors, specific works, and other topics as assigned. This course is intended for students majoring in English and those interested in English Literature.

FT; AA/AS; CSU; UC; C-ID: ENGL 165.

**ENGL 220 Masterpieces of World Literature I:
1500 BCE - 1600 CE**

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course offers a survey of world literature in translation, from the ancient world through the European renaissance (approximately 2150 BCE - 1600 CE), including the established classic literature of the Near East, Tibet, Greece and Rome, India, China, Japan, Africa, the Islamic world, and Europe. Students read and discuss a variety of authors from these regions, and address relevant social, cultural, and religious issues. Students critically analyze, in essays and papers, specific authors, works, themes, and other topics as assigned. This course is intended for English majors and anyone interested in World Literature.

FT; AA/AS; CSU; UC; C-ID: ENGL 140.

**ENGL 221 Masterpieces of World Literature II:
1600 - Present**

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course offers a survey of world literature in translation, from the close of the European renaissance through the present time, including the literature of Asia, Europe, North America, Central America, South America, Africa and the Islamic world. Students read and discuss a variety of authors from these regions, and address relevant social, religious, and cultural issues. Students critically analyze, in essays and papers, specific authors, works, themes, and other topics as assigned. This course is intended for English majors and anyone interested in World Literature.

FT; AA/AS; CSU; UC; C-ID: ENGL 145.

ENGL 234 Hip Hop Literature: A Poetry Class

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course is an introduction to Hip Hop literature/poetry. Emphasis is placed on key figures, poets, and other artists who have profoundly contributed to the genre and its different styles and forms. The course explores Hip Hop poetry's connections to other prominent forms of literature and literary theories. This course is designed for English majors and anyone interested in Hip Hop literature.

FT; AA/AS; CSU; UC.

ENGL 237 Women in Literature

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course is an introduction to images of women in literature and to women writers. Students read from a variety of genres including stories, poetry, novels, and essays, written by different authors from a range of social, cultural, and ethnic backgrounds. This course is intended for students majoring in English or anyone interested in literature.

FT; AA/AS; CSU; UC.

ENGL 238 Evaluating Children's Literature

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course is a survey of children's literature from folktales to current works. The course compares works from a variety of authors, cultures, and historical periods while emphasizing current American works. Principles of literary criticism are applied in evaluating the themes, language, and structure of works studied. This class is suitable for students interested in literature as well as for students who are preparing to teach.

FT; AA/AS; CSU.

ENGL 240 Shakespeare

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course is a survey of William Shakespeare's work. Emphasis is placed on analyses of representative plays and poems from the perspectives of theme, character, structure, and language in historical and contemporary contexts. This course is designed for students majoring in English and those with a general interest in the author or the period.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

ENGL 245A Writing Creative Nonfiction

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ENGL 245

This is an intensive course in writing creative nonfiction. Emphasis is placed on the principles and methods of creative nonfiction and the critical analysis of student and master works addressing personal, social, political, and/or cultural issues. Students submit original creative nonfiction for class discussion and are introduced to the workshop format to further their work. This course is intended for students majoring in English and those preparing for writing-related careers in areas, such as publishing, journalism, communications, and education.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

ENGL 245B Advanced Creative Nonfiction

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: ENGL 245A with a Grade of "C" or better, or equivalent

This course is an intensive course advanced creative nonfiction. Emphasis is placed on advanced techniques in character, point of view, narrative, plot, language, style, and structure. The creative process includes meetings with the professor to set goals. Students use fictional techniques of character development, plotting, setting, language, verb tense, and theme to compose nonfiction at an advanced level. This course is intended for students majoring in English and those preparing for writing-related careers in areas, such as publishing, journalism, communications, and education, and those desiring to develop a writing portfolio.

FT; AA/AS; CSU; UC.

ENGL 247A Writing Seminar - Poetry

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ENGL 247

This course is an introduction to writing poems. Emphasis is placed on the basic elements, techniques and invention strategies for writing poems, with some instruction in basic forms and evaluative techniques. This course is intended for students majoring in English and all students interested in writing poems.

FT; AA/AS; CSU; UC.

ENGL 247B Advanced Writing Seminar - Poetry

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ENGL 247A with a Grade of "C" or better, or equivalent

This course provides advanced instruction in writing poems. Emphasis is placed on sophisticated forms, techniques, and evaluation, as well as on preparing poems for submission and publication. This course is intended for students majoring in English and all students interested in writing poems.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

ENGL 249A Introduction to Creative Writing I

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ENGL 249

This course is an introduction to creative writing with special emphasis on inclusive, anti-racist, and decolonized writing and artistic approaches. Students use the basic elements of poetry and fiction writing to analyze the works of professional BIPOC (Black, indigenous, and people of color) writers to create original pieces, and to critique the work of their peers as well as their own in supportive and inclusive writing workshop spaces. This course is intended for students majoring in English, and all students, as well as lifelong learners, interested in narrative/memoir, poetry, creative non-fiction, fiction, and screenwriting.

FT; AA/AS; CSU; UC.

ENGL 249B Introduction to Creative Writing II**48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** ENGL 249A with a Grade of "C" or better, or equivalent

This course is an exploration and application of creative writing with a focus on fiction and poetry. Students use complex elements of poetry and fiction writing to analyze the works of professional writers, to create original pieces, and to critique the work of their peers as well as their own. This course is intended for students majoring in English and all students interested in fiction and fiction writing.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

ENGL 252A Fundamentals of Fiction Writing**48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for ENGL 253

This is an intensive course in fiction writing techniques at the beginning level. Students read and evaluate master works of fiction based on the basic elements of fiction writing introduced in class. Students write original fiction for submission to the class for discussion and integrate criticism offered by the instructor and peers through the editing process. This course is intended for students interested in a better understanding of literature and/or use of language as well as students interested in a writing-related career, such as publishing, journalism, communications, or education.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

ENGL 252B Intermediate Fiction Writing**48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** ENGL 252A with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for ENGL 254

This is an intensive course in fiction writing techniques at the intermediate level. Students read and evaluate master works of fiction that address personal, social, political, and cultural issues and integrate such elements into their original pieces of fiction. Students are expected to articulate, accept, and incorporate criticism through an increasingly sophisticated editorial process. This course is intended for students interested improving their creative writing skills and/or developing a portfolio prior to transferring to a four-year institution.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

ENGL 290 Independent Study**1-3 hours other; 1-3 units****Grading:** Letter Grade or Pass/No Pass**Limitation on Enrollment:** Obtain Permission Number from Instructor

This course is for students who wish to conduct additional research, a special project, or learning activities in the field of English. It is not intended to replace an existing course in the discipline. In this course students have a written contract with their instructor for activities such as: preparing problem analyses, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals.

FT; AA/AS; CSU.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

ENGL 402 Advanced Technical Writing
48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ENGL 205 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Special Admission - must be admitted to program.

This course is a study of the tools and techniques used in technical documentation and editing. Emphasis is placed on the application of effective communication in technical writing. Topics include effective workplace writing; composing formal reports, presentations, and proposals; intercultural communication and collaborative writing; synthesizing data for representation; creating instructions, procedures, or manuals; and critical reading of technical publications for editing policies. Other topics include research writing in American Psychological Association (APA) format and grant writing. This course is intended to meet upper division general education requirements for students enrolled in baccalaureate degree programs.

FT; AA/AS; CSU.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

ENGL C1000 Academic Reading and Writing
48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: CCN Template Placement as determined by the college's multiple measures assessment process.

Advisory: Milestone R40/W40. Students with Milestone R30/W30 must enroll in ENGL C1000X (ENGL C1000 and ENGL 31 learning community).

Limitation on Enrollment: This course is not open to students with previous credit for ENGL 101

Part 1 (CCN Identical): In this course, students receive instruction in academic reading and writing, including writing processes, effective use of language, analytical thinking, and the foundations of academic research. Part 2 (Local): Students read, analyze, discuss, and think critically using a variety of works and sources. Based on these activities, students write essays, fully documented research projects, and other types of texts for various purposes and audiences. This written work, which demonstrates effective, logical, and precise expression of ideas, totals at least 6,000 graded words. Designated sections of this course may be taught from a specific cultural perspective. (Formerly ENGL 101).

FT; AA/AS; CSU; UC; C-ID: ENGL 100.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

ENGL C1001 Critical Thinking and Writing
48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: CCN College-level composition (ENGL C1000, ENGL C1000H, ENGL C1000E/C-ID ENGL 100) or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for ENGL 205

Part 1 (CCN Identical): In this course, students receive instruction in critical thinking for purposes of constructing, evaluating, and composing arguments in a variety of rhetorical forms, using primarily non-fiction texts, refining writing skills and research strategies developed in ENGL C1000 College Reading and Writing (C-ID ENGL 100) or similar first-year college writing course. Part 2 (Local): Emphasis is placed on reading, evaluating, and writing argumentative prose. Students locate, evaluate and integrate outside sources into their writing assignments, which total at least 8,000 words for the semester. This course is intended for students majoring in English and all students interested in improving critical thinking and writing skills. (Formerly ENGL 205).

FT; AA/AS; CSU; UC; C-ID: ENGL 105.

ENGN-Engineering Technology

ENGN 120 Principles of Engineering Technology **32-36 hours lecture/1 hour lab; 3 units**

Grading: Letter Grade Only

This course is an introduction to the field of engineering technology. Emphasis is placed on providing students with a balance of theoretical and practical engineering principles through hands-on projects related to design, thermodynamics, hydraulics, electrical circuits, and materials. This class is designed for students interested in the pursuing an academic or vocational career in engineering technology or electronics.

FT; AA/AS; CSU.

ENGN 122 Digital Electronics **32-36 hours lecture/1 hour lab; 3 units**

Grading: Letter Grade Only

This course is a project-based study of digital electronics for the field of engineering technology. Emphasis is placed on the application of digital electronics to product development for current and future market trends. Topics include Ohm's and Kirchhoff's laws as they apply to circuit analysis, capacitance, digital versus analog waveforms, digital circuit design, flip-flops, spec sheet analysis, and microprocessor programming. This class is designed for students interested in the pursuing an academic or vocational career in engineering or electronics.

FT; AA/AS; CSU.

ENGN 124 Engineering Design and Development **32-36 hours lecture/1 hour lab; 3 units**

Grading: Letter Grade Only

This course is a hands-on, project-based study of the field of Engineering Design. Emphasis is placed on providing students with practical knowledge related to the field, including the fundamentals of design, portfolio development, sketching, modeling, dimensioning, presentation, production and marketing. This class is designed for advanced-level high school students interested in engineering or engineering technology.

FT; AA/AS; CSU.

ENGN 126 Engineering Computer Integrated Technology

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

This course is a hands-on, project-based study of the integration of computers in the field of Engineering. Emphasis is placed on providing students with working knowledge of Computer Modeling, Computer Numerical Control (CNC), Computer-aided Manufacturing (CAM) software, robotics and automation, and Computer Integrated Manufacturing (CIM). This class is designed for advanced-level high school students interested in pursuing an academic or vocational career in engineering or engineering technology.

FT; AA/AS; CSU.

ENGN 128 Electronics for Technology **32-36 hours lecture/1 hour lab; 3 units**

Grading: Letter Grade Only

This fast-paced course is a study of electronics for non-majors. Emphasis is placed on basic electronics, devices, and digital electronics. Topics include current use of electronics in industries and businesses. This course is intended for students not majoring in electronics who are interested in fundamental electronics knowledge and experience.

FT; AA/AS; CSU.

ENGN 130 Introduction to Engineering Design **32-36 hours lecture/1 hour lab; 3 units**

Grading: Letter Grade Only

This course is an introductory study of Engineering Design. Emphasis is placed on providing students with an overall perspective on the design process as well as on the details of product development, including computer-aided design (CAD). Topics include the history of design, current career opportunities, portfolio development, geometric relationships, modeling, dimensioning, production and marketing. This class is designed for students interested in the pursuing an academic or vocational career in engineering technology or electronics.

FT; AA/AS; CSU.

ENGN 275 Engineering Technology Industrial Internship

16-18 hours lecture/3 hours lab; 4 units

Grading: Letter Grade Only

Prerequisite: MFET 101 with a Grade of "C" or better, or equivalent and MFET 105 with a Grade of "C" or better, or equivalent and MFET 115 with a Grade of "C" or better, or equivalent

Corequisite: Completion of or concurrent enrollment

in: MFET 110 with a Grade of "C" or better, or equivalent and MFET 230 with a Grade of "C" or better, or equivalent

This is an industrial internship course for multiple programs under Engineering Technology field. Students apply technical knowledge learned in previous courses in the program to design and conduct experiments; analyze and interpret data; design manufacturing systems, processes and components; and identify, formulate and solve technical problems. Throughout the internship, students have opportunities to acquire new knowledge and sharpen their problem solving, communication and team work skills. The internship experience also helps students with personal growth, professional development and awareness of the impact of engineering solutions on the industry and society.

FT; AA/AS; CSU.

EXSC-Exercise Science

EXSC 122A Cardio Zumba I

1 hour lab; 1 unit

Grading: Letter Grade Only

This course is an introduction to Cardio Zumba that incorporates several latin styles of dance including but not limited to merengue, salsa, cumbia and reggaeton.

Emphasis is placed on fundamental Zumba technique, vocabulary and fitness concepts. This course is designed for all students interested in Zumba as a cardiovascular, movement-oriented sport, as well as students majoring in kinesiology.

FT; AA/AS; CSU; UC.

EXSC 122B Cardio Zumba II

1 hour lab; 1 unit

Grading: Letter Grade Only

Advisory: EXSC 122A with a Grade of "C" or better, or equivalent

This is the second course in Cardio Zumba. This level will ask students to increase the intensity of movement, including higher impact. Students will use additional arm and hip variations with new steps. Rhythm styles will expand to include Cha Cha, Mambo, Pop, Soca, Bollywood and Samba. This course is designed for students interested in Zumba as a cardiovascular, movement-oriented sport, as well as those majoring in kinesiology.

FT; AA/AS; CSU; UC.

EXSC 123 Adapted Physical Fitness

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Limitation on Enrollment: A physician's medical release form is required.

This course is not open to students with previous credit for PHYE 184

This course is designed for students with disabilities to provide opportunities for exercise and activities to improve cardiorespiratory endurance, flexibility, muscular endurance, strength, stress management, and coordination. Activities can include walking, dance, rhythm activities, wheelchair pushing, jogging, relaxation training, and exercises for joint mobility.

FT; AA/AS; CSU; UC.

EXSC 124A Core and Cardio Fitness I

0.5-1 hours lab; 0.5-1 units

Grading: Pass/No Pass Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 153 or PHYE 153W

This course provides students with introductory level knowledge and practice in attaining and maintaining core and cardio fitness levels. Instruction emphasizes cardiovascular fitness as well as core fitness through individual and circuit training. This course is the first in a series of four core and cardio fitness courses. It is intended for students seeking to develop introductory physical fitness habits or Kinesiology majors.

FT; AA/AS; CSU; UC.

EXSC 124B Core and Cardio Fitness II

0.5-1 hours lab; 0.5-1 units

Grading: Pass/No Pass Only

Advisory: EXSC 124A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 153X
This course provides introductory level students with beginning knowledge and practice in attaining and maintaining core and cardio fitness levels. Instruction emphasizes beginning cardiovascular fitness as well as core fitness through individual and circuit training. Other topics include a variety of core fitness tests, stability ball exercise routines, and beginning level aerobic and core conditioning program design. This course is the second in a series of four core and cardio fitness courses. It is intended for students seeking to develop beginning physical fitness habits or Kinesiology majors.

FT; AA/AS; CSU; UC.

EXSC 124C Core and Cardio Fitness III

0.5-1 hours lab; 0.5-1 units

Grading: Pass/No Pass Only

Advisory: EXSC 124B with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 153Y

This course provides beginning level students with intermediate knowledge and practice in attaining and maintaining core and cardio fitness levels. Instruction emphasizes intermediate cardiovascular fitness as well as core fitness through individual and circuit training. Other topics include fitness level assessment and conditioning for the treadmill; continuous, interval, and fartlek aerobic conditioning elements; beginning plyometric exercises; coronal and oblique plane movements; and clinical evaluations such as blood pressure and blood lipid tests. This course is the third in a series of four core and cardio fitness courses. It is intended for students seeking to develop intermediate physical fitness habits or Kinesiology majors.

FT; AA/AS; CSU; UC.

EXSC 124D Core and Cardio Fitness IV

0.5-1 hours lab; 0.5-1 units

Grading: Pass/No Pass Only

Advisory: EXSC 124C with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 153Z

This course provides intermediate students with advanced knowledge and practice in attaining and maintaining core and cardio fitness levels. Instruction emphasizes advanced cardiovascular fitness as well as core fitness through individual and circuit training. Other topics include core and cardio fitness assessment data comparison; advanced core fitness assessments including plyometric tests; cardiovascular interval and sprint training; advanced plyometric training involving lateral movement; dietary analysis; and identification and incorporation of dietary modifications. This course is the fourth in a series of four core and cardio fitness courses. It is intended for students seeking to develop advanced physical fitness habits or Kinesiology majors.

FT; AA/AS; CSU; UC.

EXSC 125A Aerobic Dance I**0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 103 or PHYE 103W. This course is an introduction to all forms of Aerobic Dance and movement. Emphasis is placed on fundamental Aerobic Dance technique, vocabulary, and performance concepts. This course is the first in a series of four aerobic dance courses. It is designed for all students interested in Aerobics as a cardiovascular, movement-oriented sport.

FT; AA/AS; CSU; UC.**EXSC 125B Aerobic Dance II****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only

Advisory: EXSC 125A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 103X. This course provides students with knowledge and practice in beginning Aerobic Dance principles. Emphasis is placed on beginning Aerobic Dance technique, vocabulary, strength, and performance concepts. Other topics include Cardio Latin dance rhythms and styles, additional dance vocabulary, expanded use of weights, and sports nutrition. This course is the second in a series of four aerobic dance courses. It is designed for all students interested in Aerobics as a cardiovascular, movement-oriented sport.

FT; AA/AS; CSU; UC.**EXSC 125C Aerobic Dance III****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only

Advisory: EXSC 125B with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 103Y. This course provides students with knowledge and practice in intermediate level, complex forms of Aerobic Dance, its variations, and directional changes. Cardio Kickboxing technique and plyometric moves are added for a diverse, dynamic workout. Emphasis is placed on intermediate level Aerobic Dance technique, vocabulary, and performance concepts. This course is the third in a series of four aerobic dance courses. It is designed for all students interested in Aerobics as a cardiovascular, movement-oriented sport, and who have taken the beginning level version of this class.

FT; AA/AS; CSU; UC.**EXSC 125D Aerobic Dance IV****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only

Advisory: EXSC 125C with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 103Z. This course provides students with knowledge and practice in complex forms of advanced Aerobic Dance and its variations, such as Cardio Latin dance, Cardio Kickboxing, and Cardio Hip Hop styles and rhythms. Emphasis is placed on advanced levels of Aerobic Dance technique, vocabulary, and performance concepts. Other topics include advanced principles of body alignment such as movement combinations and jumps; advanced level plies such as sliding and jumping; and plyometrics. This course is the fourth in a series of four aerobic dance courses. It is designed for all students interested in Aerobics as a cardiovascular, movement-oriented sport, and who have taken the intermediate level version of this class.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 126A Cardio Conditioning I**0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 123 or 123W. This course provides instruction in the basic skills necessary to improve aerobic fitness, cardiovascular health, muscular endurance/strength, and static flexibility. Topics include fitness terminology, identifying individual fitness level and areas to improve, basic exercise programming, proper warm up/cool down and resting/exercise heart rate. This class is designed for students interested in a healthy lifestyle as well as kinesiology majors.

FT; AA/AS; CSU; UC.

EXSC 126B Cardio Conditioning II

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 126A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 123X.

This course provides instruction in exercise programming through moderately intense activities including cross training, basic boxing, plyometrics, speed and agility, core stability, dynamic flexibility and nutrition. This course is designed to provide students the opportunity to continue the fundamental principles of physical fitness and their impact on life-long health and wellness. This class is designed for students interested in a healthy lifestyle as well as Kinesiology majors.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 126C Cardio Conditioning III

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 126B with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 123Y.

This course is designed to provide students the opportunity to develop and implement a personalized fitness plan to help them pursue their lifelong commitment to life-long health and wellness. Topics include goal setting, training zones, and body specific training principles through moderate/highly intense activities. This class is designed for students interested in a healthy lifestyle as well as Kinesiology majors.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 126D Cardio Conditioning IV

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 126C with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 123Z.

This course is the fourth in a series of Cardio Conditioning courses. Students develop, analyze and implement advanced group fitness plans. Topics include agility and jump training, running, sports cross training, advanced core training, stress management and nutrition. Data gathering and assessment methods are also covered. This class is designed for students interested in a healthy lifestyle as well as Kinesiology majors.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 127A Cardio Kickboxing I

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 133

This is the first in a series of cardio kickboxing courses. This course is an introduction to cardiorespiratory fitness combined with basic non-contact kickboxing techniques, practices, and principles. Instruction includes basic upper body punching functions, basic kick techniques, and basic combination series of both upper body and lower body kickboxing routines. This class is designed for those who want to increase cardiovascular fitness using cardio kickboxing and who are interested in understanding the importance of the fitness aspect of their life.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 127B Cardio Kickboxing II

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 127A with a Grade of "C" or better, or equivalent

This is the second in a series of cardio kickboxing courses. This course covers cardiorespiratory fitness combined with basic non-contact kickboxing techniques, practices, and principles. Instruction includes cardio kickboxing techniques, basic terminology, nutrition, and routine guidelines. This class is designed for those who want to increase cardiovascular fitness and who are interested in understanding the importance of the fitness aspect of their life.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 127C Cardio Kickboxing III

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 127B with a Grade of "C" or better, or equivalent Basic Cardio Kickboxing

This is the third in a series of cardio kickboxing courses. This course covers cardiorespiratory fitness combined with intermediate non-contact kickboxing techniques, practices, and principles. Instruction includes intermediate cardio kickboxing techniques, basic terminology, nutrition, and routine guidelines. This class is designed for those who want to increase cardiovascular fitness and who are interested in understanding the importance of the fitness aspect of their life and learn how to create a nutrition and intermediate fitness routine.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 127D Cardio Kickboxing IV

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 127C with a Grade of "C" or better, or equivalent

This is the fourth in a series of cardio kickboxing courses. This course covers cardiorespiratory fitness combined with advanced kickboxing techniques, practices, and principles. Instruction includes advanced non-contact cardio kickboxing techniques, terminology, nutrition, and routine guidelines. This class is designed for those who want to increase cardiovascular fitness and who are interested in understanding the importance of the fitness aspect of their life and learn how to create a nutrition and fitness routine.

FT; AA/AS; CSU; UC.

EXSC 129A Step Aerobics I

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 104

This is the first in a series of step aerobics courses. Step aerobics is a rigorous exercise course designed to increase both the fitness levels of participating students and their understanding of what constitutes a safe and effective exercise program. This course is an introduction to cardiorespiratory fitness combined with basic step aerobic techniques, practices, and principles. Instruction includes basic step aerobic techniques and combination series of 8 count step movement routines. Instruction includes a balanced exercise program of basic step aerobics, toning, stretching, and relaxation along with discussion of related health topics. This course is designed for students pursuing a kinesiology major and those interested in increasing their cardiovascular fitness.

FT; AA/AS; CSU; UC.

EXSC 129B Step Aerobics II**0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 129A with a Grade of "C" or better, or equivalent

This is the second in a series of step aerobics courses. Step aerobics is a rigorous exercise course designed to increase both the fitness levels of participating students and their understanding of what constitutes a safe and effective exercise program. Instruction includes a balanced exercise program of basic step routines with power alternatives, toning, stretching, and relaxation along with discussion of related health topics. This course is designed for students pursuing a kinesiology major and those interested in increasing their cardiovascular fitness and for those who are interested in creating their own basic fitness programs.

FT; AA/AS; CSU; UC.**EXSC 129C Step Aerobics III****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 129B with a Grade of "C" or better, or equivalent

This is the third in a series of step aerobics courses. Step aerobics is a rigorous exercise course designed to increase both the fitness levels of participating students and their understanding of what constitutes a safe and effective exercise program. Instruction includes a balanced exercise program of power step aerobic movements with combinations, toning, stretching, and relaxation along with discussion of related health topics. This class will teach the students how to design their own fitness program. This course is designed for students pursuing a kinesiology major and those interested in increasing their cardiovascular fitness.

FT; AA/AS; CSU; UC.**EXSC 129D Step Aerobics IV****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 129C with a Grade of "C" or better, or equivalent

This is the fourth in a series of step aerobics courses. Step aerobics is a rigorous exercise course designed to increase both the fitness levels of participating students and their understanding of what constitutes a safe and effective exercise program. Instruction includes a balanced exercise program of advanced step aerobic combinations, toning, stretching, and relaxation along with discussion of related health topics. This course is designed for students pursuing a kinesiology major and those interested in increasing their cardiovascular fitness and who are interested in creating fitness and choreographed routines.

FT; AA/AS; CSU; UC.Limitation: UC Transfer**Limitation. See a Counselor.** Limitation: UC Transfer Limitation. See a Counselor.**EXSC 130A Indoor Cycling I****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only

This course is the first in a series of Indoor Cycling courses. Emphasis is placed on instruction in the basic fundamentals necessary to improve indoor cycling techniques and improve cardiovascular/aerobic fitness. Topics includes cycling terminology and ergonomics, overall fitness evaluation, various indoor cycling exercise regimens, and goal setting programs for individual health and fitness benefits. This class is designed for students interested in cardiovascular fitness improvement through indoor cycling (spinning).

FT; AA/AS; CSU; UC.**EXSC 130B Indoor Cycling II****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 130A with a Grade of "C" or better, or equivalent

This course is the second in a series of Indoor Cycling courses. Emphasis is placed on beginning to intermediate cycling techniques, heart rate calculations, fitness evaluations, and cardiovascular training and program design. Beginning level principles of physiology are explored including how to train to elicit a desired physiological response. This class is designed for students interested in aerobic fitness improvement through indoor cycling as well as Kinesiology majors.

FT; AA/AS; CSU; UC.

EXSC 130C Indoor Cycling III

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 130B with a Grade of "C" or better, or equivalent

This course is the third in a series of Indoor Cycling courses. Emphasis is based on intermediate to advanced cycling techniques, interval training, power cycling, and intermediate workload training. Intermediate level principles of physiology are explored including how to train within a workload range and why. This class is designed for students interested in aerobic fitness improvement through indoor cycling as well as Exercise Science or related majors.

FT; AA/AS; CSU; UC.

EXSC 130D Indoor Cycling IV

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 130C with a Grade of "C" or better, or equivalent

This is the fourth course in a series of Indoor Cycling courses. Emphasis is placed on advanced cycling techniques, advanced interval training, advanced power cycling and advanced workload training. Advanced principles of physiology are explored including how to train within a workload and why. This class is designed for students interested in aerobic fitness improvement through advanced indoor cycling as well as Exercise Science or related majors.

FT; AA/AS; CSU; UC.

EXSC 134 Adapted Weight Training

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Limitation on Enrollment: A physician's medical release form is required.

This course is not open to students with previous credit for PHYE 182

This course is designed for students with disabilities as an introduction to progressive resistance training. Emphasis is placed on developing cardiorespiratory and muscle endurance, muscle strength and flexibility and a healthy body composition through individualized safe and beneficial exercise programming. The course includes exercises that focus on relaxation, joint mobility, body maintenance, and activities for daily living. A physician's medical release is required.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 135A Individual Conditioning I

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 132 or PHYE 132W. This course provides individually programmed instruction in the fundamental skills and techniques of strength training and aerobic activity. The positive impact of physical education on health and wellness is explored and emphasized. This course is of particular interest to students wishing to enter the fields of sports medicine and athletics, as well as to students seeking to improve overall fitness.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 135B Individual Conditioning II

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 135A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 132X. This course provides individually programmed instruction in the beginning level skills of the 5 components of fitness. Students learn proper body mechanics for basic movement patterns utilizing a variety of different training modalities. Beginning level principles of physiology is explored including how to train to elicit a desired physiological response.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 135C Individual Conditioning III

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 135B with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 132Y.

This course provides individually programmed instruction in the intermediate principles of the 5 components of fitness. Students learn basic anatomy and build upon the principles of physiology learned in previous levels of this course to create both individual workouts and a long term workout plan to meet individualized conditioning goals.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 135D Individual Conditioning IV

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 135C with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 132Z

This course provides individually programmed instruction in the advanced principles of the 5 components of fitness. Students learn how to instruct others in proper movement patterns and body mechanics for several strength training and cardiovascular training modalities. Students utilize their knowledge of the advanced principles of anatomy and physiology to create a workout plan for another individual, identifying modifications, and variations of exercises depending on the unique needs of the subject they are designing a workout for.

FT; AA/AS; CSU; UC.Limitation. UC Transfer Limitation. See a Counselor. UC Transfer Limitation. See a Counselor.

EXSC 136A Off-Season Conditioning for Sport I

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 191 or PHYE 165. This course is designed to enhance the physical and mental skills needed to participate in intercollegiate sports activities. Emphasis is placed on weight training, running, skill development games, and individual development for sport. When this course is offered for one unit the additional time is utilized in the practice and perfection of individual sport-specific skills. This course is intended for intercollegiate athletes.

FT; AA/AS; CSU; UC.

EXSC 136B Off-Season Conditioning for Sport II

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 136A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 165 or PHYE 191. This course provides intercollegiate athletes with individually programmed coaching in the fundamental skills of sports-specific training and aerobic conditioning. Through progressive inquiry and practice, students demonstrate more advanced levels of athletic performance. When this course is offered for one unit the additional time is utilized in the development and implementation of sport-specific exercise programs. This course is intended for intercollegiate athletes.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 139A Weight Training I

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 166 or PHYE 166W. This is the first in a series of progressive resistance training courses. Instruction includes proper methods of weight training, use of weight training machines, cardio exercise equipment, lifting of free weights, and warm up/cool down. Instruction also includes charting exercises, introduction to major muscle groups and the weight training exercises to improve strength and range of motion. This class is designed for students interested in a healthy lifestyle as well as exercise science majors.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 139B Weight Training II

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 139A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 166X

This is the second in a series of progressive resistance training courses. Emphasis is placed on alternative training methods including circuit and interval training, hill climbing, and fat burning. This course includes basic nutrition to help build muscle and/or reduce body weight utilized in student development of a personal fitness program. This class is designed for students interested in a healthy lifestyle as well as exercise science majors.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 139C Weight Training III

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 139B with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 166Y.

This is the third in a series of progressive resistance training courses. Emphasis is placed on the use of the weight training machines, cardio exercise equipment, and Olympic lifts. This course covers alternate methods of resistance training including medicine balls, plyo balls, bosu balls, elastic cords, and TRX belts. This class is designed for students interested in a healthy lifestyle as well as exercise science majors.

FT; AA/AS; CSU; UC.

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EXSC 139D Weight Training IV

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 139C with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 166Z.

This is the fourth in a series of progressive resistance training courses. This course covers the proper use of weight lifting machines, cardio exercise equipment, and alternate methods of resistance training and lifting of free weights. This class is designed for students interested in a healthy lifestyle as well as exercise science majors.

FT; AA/AS; CSU; UC.

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EXSC 141A Total Body Conditioning I

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

This course is the first in a series of total body conditioning courses. Emphasis is placed on developing proper training techniques necessary to improve muscular strength and endurance using compound and accessory exercises in rapid sequence. Topics will include identification of major movement patterns and modifications based on ability levels, basic strength exercises for muscle groups with emphasis on the core, and safety practices. When this course is offered for three hours per week, the additional time is utilized for skill development. This course is designed for kinesiology majors and all students interested in improving fitness.

FT; AA/AS; CSU; UC.

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EXSC 141B Total Body Conditioning II

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 141A with a Grade of "C" or better, or equivalent

This course is the second in a series of total body conditioning courses. Emphasis is placed on improving muscular strength and endurance and cardiorespiratory endurance using compound and accessory exercises and cardiorespiratory intervals in rapid sequence. Topics will include identification of muscle groups used in single and multi-joint movement exercises, intermediate strength exercises for muscle groups with emphasis on functional exercises, and use of appropriate modifications for varying ability levels. When this course is offered for three hours per week, the additional time is utilized for skill development. This course is designed for kinesiology majors and all students interested in improving fitness.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 141C Total Body Conditioning III

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 141B with a Grade of "C" or better, or equivalent

This course is the third in a series of total body conditioning courses. Emphasis is placed on improving muscular strength and endurance and cardiorespiratory endurance using compound and accessory exercises and cardiorespiratory intervals in rapid sequence. Topics will include understanding of advanced exercise techniques, advanced strength and plyometric exercises for muscle groups with emphasis on functional exercises. When this course is offered for three hours per week, the additional time is utilized for skill development. This course is designed for kinesiology majors and all students interested in improving fitness.

FT; AA/AS; CSU; UC.

EXSC 142 Hiking for Fitness I- Fundamentals

0.5-2 hours lab; 0.5-2 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 188.

This course provides instruction in the fundamental skills required for hiking. Emphasis is placed on proper warm-up and warm down, walking form and injury prevention and treatment. This course is intended for all students interested in fundamental hiking and personal fitness. When this course is offered for one or two units, the additional time is utilized for skill development in the group hiking leadership.

FT; AA/AS; CSU; UC.

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EXSC 143A Outdoor Cycling Level I

0.5-2 hours lab; 0.5-2 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 187

This course provides instruction in the skills required for outdoor cycling. Emphasis is placed on proper warm-up and warm-down, cycling form on flat terrain, and changing flat tires. Students design a personal fitness plan around outdoor cycling. This course is intended for all students interested in cycling and personal fitness.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 143B Outdoor Cycling Level II

1-2 hours lab; 1-2 units

Grading: Letter Grade Only

Advisory: EXSC 143A with a Grade of "C" or better, or equivalent

This course provides instruction in the skills required for outdoor cycling. Emphasis is placed on proper warm-up and warm-down, cycling form, building endurance, ascending and descending hills, and bicycle maintenance. Students design a personal fitness plan around outdoor cycling. This course is intended for all students interested in cycling and personal fitness.

FT; AA/AS; CSU; UC.

EXSC 144A Fitness Walking I**0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 154.

This course introduces students to various walking techniques and basic principles of aerobic and cardiovascular health. It is intended for Kinesiology majors and all students interested in a healthy lifestyle.

FT; AA/AS; CSU; UC.**EXSC 144B Fitness Walking II****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 144A with a Grade of "C" or better, or equivalent

This beginning-level course covers the principles of aerobic and cardiovascular health through various walking techniques. Instruction in fitness principles, stress reduction, weight management, and heart health are also covered. This course is intended for Kinesiology majors and all students interested in a healthy lifestyle.

FT; AA/AS; CSU; UC.**EXSC 144C Fitness Walking III****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 144B with a Grade of "C" or better, or equivalent

This intermediate-level course covers the principles of aerobic and cardiovascular health through various walking techniques. Students design basic walking programs that include walking frequency, duration, intensity, and mode. Instruction in fitness principles, stress reduction, weight management, heart health, individual training zones, and fitness assessments are also covered. This course is intended for Kinesiology majors and all students interested in a healthy lifestyle.

FT; AA/AS; CSU; UC.**EXSC 144D Fitness Walking IV****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 144C with a Grade of "C" or better, or equivalent

This advanced-level course covers the principles of aerobic and cardiovascular health through various walking techniques. Students design individualized warm-up, walking, and cool-down programs and calculate and employ individual target heart rate zones for weight management and cardiovascular endurance. Instruction in fitness principles, stress reduction, weight management, heart health, individual training zones, fitness assessments, and lifestyle changes are also covered. This course is intended for Kinesiology majors and all students interested in a healthy lifestyle.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 145A Yoga I**0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 168.

This is the first of four levels of classes relating to yoga.

This course is an introduction to fundamental yoga practices and principles. Instruction includes learning the fundamentals of yoga postures. The students will also gain a fundamental understanding of the practices of relaxation techniques and breathing practices. This course is designed for students who want to increase health, longevity and who are interested in understanding the importance of the fitness aspect of their life.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 145B Yoga II

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 145A with a Grade of "C" or better, or equivalent

This is the second of four levels of classes relating to yoga. This course is an introduction to fundamentals of basic yoga practices and principles. Instruction includes basic yoga postures, guided relaxations, and breathing practices, as well as some basic stress reduction techniques. This course is designed for students interested in utilizing basic yoga and stress reduction techniques to help increase their health and longevity.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 145C Yoga III

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 145B with a Grade of "C" or better, or equivalent

This is the third of four levels of classes relating to yoga. This course will cover intermediate yoga practices and principles including some intermediate inversions. Instruction includes intermediate yoga postures, guided relaxations, basic inversions, breathing practices, and basic partner yoga as well as stress reduction techniques and nutritional analysis. This course is designed for students interested in learning about both fitness and nutrition. The students will utilize intermediate yoga to help increase their health and longevity.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 145D Yoga IV

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 145C with a Grade of "C" or better, or equivalent

This is the fourth of four levels of classes relating to yoga. This course will cover advanced yoga practices and principles. Instruction includes advanced yoga postures, guided relaxations, inversions, breathing practices, and partner yoga as well as stress reduction techniques and nutritional analysis. This course is designed for students interested in developing their own workout regime utilizing advanced yoga to help increase their health and longevity.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 147A Kickboxing I

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 233.

This is the first in a series of kickboxing courses. Topics include fundamental kickboxing terminology, safety, physical fitness, and controlled sparring. Emphasis is placed on single strike upper body kickboxing combinations. This course is intended for all students interested in fundamental level kickboxing.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 147B Kickboxing II

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 147A with a Grade of "C" or better, or equivalent

This is the second in a series of kickboxing courses. Topics include beginning kickboxing terminology, safety, physical fitness, and controlled sparring. Emphasis is placed on double strike kickboxing combinations that include the lower body. This course is intended for all students interested in beginning level kickboxing.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 147C Kickboxing III

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 147B with a Grade of "C" or better, or equivalent

This is the third in a series of kickboxing courses. Topics include intermediate kickboxing terminology, safety, physical fitness, and controlled sparring. Emphasis is placed on triple strike kickboxing combinations that include the full body. This course is intended for all students interested in intermediate level kickboxing.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 147D Kickboxing IV

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 147C with a Grade of "C" or better, or equivalent

This is the fourth in a series of kickboxing courses. Topics include advanced kickboxing terminology, safety, physical fitness, and controlled sparring. Emphasis is placed on four strike kickboxing combinations that include the full body. This course is intended for all students interested in advanced level kickboxing.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 148A Mixed Martial Arts I

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 232

This is the first in a series of mixed martial arts exercise courses. Emphasis is placed on fundamental mixed martial arts terminology, safety, self-defense, etiquette, punches, blocks, strikes, kicks, stances, pressure points, and forms. This course is intended for all students interested in fundamentals techniques including but not limited to Thai-boxing, judo, jiu jitsu, and boxing as referenced by the International Mixed Martial Arts Federation organization.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 148B Mixed Martial Arts II

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 148A with a Grade of "C" or better, or equivalent

This is the second in a series of mixed martial arts exercise courses. Emphasis is placed on beginning mixed martial arts terminology, safety, self-defense, etiquette, punches, blocks, strikes, kicks, stances, pressure points, and forms. This course is intended for all students interested in beginning techniques including but not limited to Thai-boxing, judo, jiu jitsu, and boxing as referenced by the International Mixed Martial Arts Federation organization.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 148C Mixed Martial Arts III

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 148B with a Grade of "C" or better, or equivalent

This is the third in a series of mixed martial arts exercise courses. Emphasis is placed on intermediate mixed martial arts terminology, safety, self-defense, etiquette, punches, blocks, strikes, kicks, stances, pressure points, and forms. This course is intended for all students interested in intermediate techniques including but not limited to Thai-boxing, judo, jiu jitsu, and boxing as referenced by the International Mixed Martial Arts Federation organization.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 148D Mixed Martial Arts IV

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 148C with a Grade of "C" or better, or equivalent

This is the fourth in a series of mixed martial arts exercise courses. Emphasis is placed on advanced mixed martial arts terminology, safety, self-defense, etiquette, punches, blocks, strikes, kicks, stances, pressure points, and forms. This course is intended for all students interested in advanced techniques including but not limited to Thai-boxing, judo, jiu jitsu, and boxing as referenced by the International Mixed Martial Arts Federation organization.

FT; AA/AS; CSU; UC.

EXSC 154A Badminton I

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 108

This course is the first in a series of four badminton courses. This course provides instruction and court experience in the skills, strategies and rules necessary to play badminton at the novice level. Instruction includes the basic strokes, vocabulary and sportsmanship. This course is intended for novice level badminton players.

FT; AA/AS; CSU; UC.

EXSC 154B Badminton II

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 154A with a Grade of "C" or better, or equivalent

This course is the second in a series of four badminton courses. Emphasis is placed on beginning level skills, shots, serves, footwork and strategies. This course is intended for kinesiology majors and all students interested in incorporating the game of badminton into an active lifestyle.

FT; AA/AS; CSU; UC.

EXSC 154C Badminton III

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 154B with a Grade of "C" or better, or equivalent

This course is the third in a series of four badminton courses. Emphasis is placed on intermediate level skills, shots, serves, footwork and strategies for singles and doubles play. This course is intended for kinesiology majors and all students interested in incorporating the game of badminton into an active lifestyle.

FT; AA/AS; CSU; UC.

EXSC 154D Badminton IV

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 154C with a Grade of "C" or better, or equivalent

This course is the fourth in a series of four badminton courses. Emphasis is placed on advanced level skills, and strategies for singles and doubles tournament play. This course is intended for kinesiology majors and all students interested in incorporating the game of badminton into an active lifestyle.

FT; AA/AS; CSU; UC.

EXSC 156A Baseball I

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 111.

This course is designed to introduce the student to the game of baseball at the college level. Emphasis is placed on fielding ground balls, base running, outfield play, and the techniques and practice of bunting, including the sacrifice bunt, drag bunt, and push bunt. Topics also include the history of baseball, rules, terminology, safety procedures, values, and etiquette. This course is intended for novice level baseball players.

FT; AA/AS; CSU; UC.

EXSC 156B Baseball II

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 156A with a Grade of "C" or better, or equivalent

This beginning level course in baseball is designed to continue the skill development in baseball and to introduce students to the concepts of wellness and a healthy lifestyle through baseball activities. Emphasis is placed on the batting stance and batters swing techniques, including balance, base, front side direction, contact position, and vision. Topics include ball flight, pitch selection, location recognition, count management, body weight transition, and contact point. Baseball fitness is included and encompasses cardio conditioning, plyometrics, and stretching as they pertain to the sport. This course is intended for intermediate level baseball players.

FT; AA/AS; CSU; UC.

EXSC 156C Baseball III

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 156B with a Grade of "C" or better, or equivalent

This intermediate-advanced level course in baseball provides instruction and practice in specialty defense such as bunt coverages, cuts and relays, first and third situations, and pick-off plays. Students practice and analyze specialty defensive situations to improve overall defensive awareness on the baseball field and to become a more well-rounded defensive player. Topics include terminology, pre-pitch preparation, foot work, body position before and during game play, and the fundamentals of playing catch. Baseball fitness includes cardio conditioning, plyometrics, and stretching as they pertain to the sport. This course is intended for intermediate-advanced level baseball players.

FT; AA/AS; CSU; UC.

EXSC 156D Baseball IV

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 156C with a Grade of "C" or better, or equivalent

This advanced level course in baseball is designed for students to apply both offensive and defensive baseball skills in competition. Emphasis is placed on instruction and practice in game situations through inner squad games arranged between teams made up of class members. The mental aspect of the game is explored and applied throughout the course. This course is intended for advanced baseball players.

FT; AA/AS; CSU; UC.

EXSC 158A Basketball I

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 112.

This course is the first in a series of four basketball courses. This course introduces students to the game of basketball. Instruction includes basic individual offensive and defensive fundamental skills, history of the game, terminology, rules, etiquette, proper warm-up and cool down and safety. Emphasis is placed on games using less than full teams and half court situations. This course is designed for anyone who has an interest in playing basketball.

FT; AA/AS; CSU; UC.

EXSC 158B Basketball II

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 158A with a Grade of "C" or better, or equivalent

This course is the second in a series of four basketball courses. This course provides students the opportunity to improve individual beginning skills and introduces individual offensive moves and team concepts. Topics include transition basketball, team offense and defense as well as theories of basketball conditioning. Emphasis is placed on 5 -5 play and full court situations and strategies of team play. This class is designed for those with a basic knowledge and ability to play basketball.

FT; AA/AS; CSU; UC.

EXSC 158C Basketball III

0.5-1 hours lab; 0.5-1 units

Grading: Letter Grade Only

Advisory: EXSC 158B with a Grade of "C" or better, or equivalent

This course is the third in a series of four basketball courses. This course provides students the opportunity to improve individual intermediate skills through self analysis of strengths and weaknesses and introduces full court pressure play. Students are expected to write programs to improve individual skills. Topics include full court zone and man pressure, full court offense and specialty plays. Emphasis is placed on skill work drills, 5-5 play and full court situations. This class is designed for those that have above an intermediate knowledge and skill level in basketball.

FT; AA/AS; CSU; UC.

EXSC 158D Basketball IV**0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 158C with a Grade of "C" or better, or equivalent

This course is the fourth in a series of four basketball courses. This course provides students the opportunity to develop technical skills necessary to coach the game of basketball and stresses the development of advanced skills and team play. Topics include analysis of team play, writing a practice plan, how to scout an opponent and evaluation of individual play. Emphasis is placed on skill work drills and full court tournament play. This class is designed for those that have an intermediate knowledge of basketball and possess an advanced skill level.

FT; AA/AS; CSU; UC.**EXSC 166A Golf I****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 126.

This course provides golf instruction and practice. Emphasis is placed on the fundamentals of the grip, stance, alignment, and the techniques and practice of the short game strokes of pitching, chipping and putting. Topics include the rules, terminology, safety procedures, values, etiquette, equipment, and history of golf. This course is designed for all students interested in playing golf as part of a fitness lifestyle or kinesiology majors.

FT; AA/AS; CSU; UC.**EXSC 166B Golf II****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 166A with a Grade of "C" or better, or equivalent

This course provides golf instruction and practice. Emphasis is placed on techniques of the full swing with irons, hybrids, fairway metals and drivers. Topics include golf fitness, stretching and the principles of warm-up as well as golf club selection and use. This course is designed for all students interested in playing golf as part of a fitness lifestyle or kinesiology majors.

FT; AA/AS; CSU; UC.**EXSC 166C Golf III****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 166B with a Grade of "C" or better, or equivalent

This course provides golf instruction and practice. Emphasis is placed on specialty shots, such as sand, side hill and up and down hill lies. The fundamental errors in golf are analyzed to correct individual errors focusing on swing techniques and the mental approach to the game. Topics include the laws of ball flight, the swing plane, and wise use of practice time. This course is designed for all students interested in playing golf as part of a fitness lifestyle and kinesiology majors.

FT; AA/AS; CSU; UC.**EXSC 166D Golf IV****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 166C with a Grade of "C" or better, or equivalent

This course provides golf instruction and practice. Emphasis is placed on playing strategies, analysis of golf rounds for strengths and weaknesses, student analysis of several different golf swings, and the handicap system. Stroke and Match plays are arranged between class members to develop playing strategies in competition. This course is designed for all students interested in playing golf as part of a fitness lifestyle and kinesiology majors.

FT; AA/AS; CSU; UC.**EXSC 174A Soccer I****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 149 or PHYE 149W. This course provides instruction in basic soccer skill technique, strategies, etiquette and rules necessary to play soccer at the novice level. Topics include basic dribbling, heading and collection with the soccer ball. Students also define, apply and interpret the basic rules and safety procedures within the game of soccer. This class is designed for students interested in an active lifestyle as well as for Kinesiology majors.**FT; AA/AS; CSU; UC.**

EXSC 174B Soccer II**0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 174A with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 149X.

This course provides instruction in soccer technique, tactics, and physical skills necessary to play soccer at the beginning level. Topics include dribbling skills including scissors and Matthews moves, passing techniques and turning while collecting a soccer ball. Students also define and apply methods of scoring, set pieces and principles of team defense within the game of soccer. This class is designed for students interested in an active lifestyle as well as Kinesiology majors.

FT; AA/AS; CSU; UC.**EXSC 174C Soccer III****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 174B with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 149Y.

This course provides instruction in individual soccer techniques, tactics, and physical skills necessary to play soccer at the intermediate level. Topics include shooting from both close and far distances, lofted passing techniques and offensive heading of the soccer ball. Students also define, apply and interpret methods of creating space, both offensively and defensively as an individual player. This class is designed for students interested in an active lifestyle as well as Kinesiology majors.

FT; AA/AS; CSU; UC.**EXSC 174D Soccer IV****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 174C with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 149Z.

This course provides instruction in team soccer techniques, tactics, physical skills, etiquette, and rules necessary to play soccer at the advanced level. Topics include building the offensive through the back, playing through the midfield and attacking from the central and flank positions. Students also define and apply methods of zonal defending and defending various systems of play as a team. This class is designed for students interested in an active lifestyle as well as Kinesiology majors.

FT; AA/AS; CSU; UC.**EXSC 176A Softball I****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 151.

This course is the first in a series of four softball courses. This course provides instruction to develop the fundamental skills of throwing, catching, running, hitting, and rules of play of softball as well as individual and team skill development and strategies involved in competitive game situations. This course is intended for all students interested in softball.

FT; AA/AS; CSU; UC.**EXSC 176B Softball II****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 176A with a Grade of "C" or better, or equivalent

This course is the second in a series of four softball courses. This course provides instruction to continue the development of the beginning skills of throwing, catching, running, hitting, and rules of play of softball as well as individual and team skill development and strategies involved in competitive game situations. This course is intended for all students interested in softball.

FT; AA/AS; CSU; UC.**EXSC 176C Softball III****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 176B with a Grade of "C" or better, or equivalent

This course is the third in a series of four softball courses. This course provides instruction to develop the intermediate skills of throwing, catching, running, hitting, and rules of play of softball, as well as, individual and team skill development and strategies involved in competitive game situations. This course is intended for all students interested in softball.

FT; AA/AS; CSU; UC.**EXSC 176D Softball IV****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 176C with a Grade of "C" or better, or equivalent

This course is the fourth in a series of four softball courses. This course provides instruction to develop the advanced skills of throwing, catching, running, hitting and rules of play of softball, as well as, advanced individual and team skill development and strategies involved in competitive game situations. This course is intended for all students interested in softball.

FT; AA/AS; CSU; UC.

EXSC 178A Tennis I**0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 159 and PHYE 159W.

This course is the first in a series of four courses in tennis. Emphasis is placed on introductory level skills, strokes, strategies, rules and etiquette. This course is intended for kinesiology majors and all students interested in incorporating the game of tennis into an active lifestyle.

FT; AA/AS; CSU; UC.**EXSC 178B Tennis II****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 178A with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 159X.

This course is the second in a series of four courses in tennis. Emphasis is placed on beginning level skills, strokes, strategies, rules and etiquette as they relate to tournament play. This course is intended for kinesiology majors and all students interested in incorporating the game of tennis into an active lifestyle.

FT; AA/AS; CSU; UC.**EXSC 178C Tennis III****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 178B with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 159Y.

This course is the third in a series of four courses in tennis. Emphasis is placed on intermediate level skills, strokes, strategies, rules and etiquette as they relate to league and tournament play. This course is intended for kinesiology majors and all students interested in incorporating the game of tennis into an active lifestyle.

FT; AA/AS; CSU; UC.**EXSC 178D Tennis IV****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 178C with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 159Z.

This course is the fourth in a series of four courses in tennis. Emphasis is placed on advanced skills, strokes, strategies, rules and etiquette as they relate to singles and doubles tournament play. This course is intended for kinesiology majors and all students interested in incorporating the game of tennis into an active lifestyle.

FT; AA/AS; CSU; UC.**EXSC 179A Pickleball I****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only

This course is an introduction to the sport of pickleball.

Emphasis is placed on the fundamental pickleball techniques, rules and etiquette needed to play pickleball with no prior experience. When the course is offered for three hours per week, the additional time is utilized for stroke development and application of strategies in playing situations. This course is designed for kinesiology majors and all students interested in the sport of pickleball.

EXSC 179B Pickleball II**0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 179A with a Grade of "C" or better, or equivalent

This course provides instruction and on-court experience in the skills, strategies, rules and etiquette necessary to play pickleball at a beginner level, including both singles and doubles. No prior experience is required, although a background in other racquet sports such as tennis, racquetball or badminton is helpful. When the course is offered for three hours per week, the additional time is utilized for stroke development and application of strategies in playing situations. This course is designed for kinesiology majors and all students interested in the sport of pickleball.

EXSC 179C Pickleball III**0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 179B with a Grade of "C" or better, or equivalent

This course provides instruction and on-court experience in the skills strategies, rules and etiquette necessary to play pickleball at an intermediate level, including both singles and doubles. Completion of Pickleball I or II is not required, but recommended. A background in other racquet sports such as tennis, racquetball or badminton is helpful. When the course is offered for three hours per week, the additional time utilized for stroke development and application of strategies in playing situations.

EXSC 179D Pickleball IV**0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 179C with a Grade of "C" or better, or equivalent

This course provides instruction and on-court experience in the skills, strategies, rules and etiquette necessary to play pickleball at an advanced level, including both singles and doubles. Completion of Pickleball 3 is highly recommended. A background in other racquet sports such as tennis, racquetball or badminton is helpful. When the course is offered for three hours per week, the additional time is utilized for stroke development and application of strategies in playing situations, including tournaments. This course is designed for kinesiology majors and all students interested in the sport of pickleball.

EXSC 180A Track and Field I**0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 160 or EXSC 180. This course is designed as an introduction to the fundamentals of track and field. Emphasis is placed on safety, form and techniques related to throwing, jumping and running events. This course is intended for anyone interested in track and field or Kinesiology Majors.**FT; AA/AS; CSU; UC.****EXSC 180B Track and Field II****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 180A with a Grade of "C" or better, or equivalent

This course provides instruction and practice in advanced beginner skills and techniques of all track and field events. Emphasis is placed on creating a conditioning program involving event-specific running and event technique and drills. This course is intended for anyone interested in track and field or those majoring in kinesiology.

FT; AA/AS; CSU; UC.**EXSC 180C Track and Field III****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 180B with a Grade of "C" or better, or equivalent

This course provides instruction and practice in intermediate skills and techniques of all track and field events. Emphasis is placed on creating a conditioning program involving event-specific running and event technique and drills. This course is intended for anyone interested in track and field or those majoring in kinesiology.

FT; AA/AS; CSU; UC.**EXSC 180D Track and Field IV****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 180C with a Grade of "C" or better, or equivalent

This course provides instruction and practice in advanced skills and techniques of all track and field events. Emphasis is placed on creating a conditioning program involving event-specific running and event technique and drills. This course is intended for anyone interested in track and field or those majoring in kinesiology.

FT; AA/AS; CSU; UC.**EXSC 182A Volleyball I****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 161

This course is the first of four courses in volleyball. Emphasis is placed on introductory level skills, basic rules, strategies and etiquette. This course is intended for Kinesiology majors and all students interested in incorporating the sport of volleyball into an active lifestyle.

FT; AA/AS; CSU; UC.

EXSC 182B Volleyball II**0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 182A with a Grade of "C" or better, or equivalent

The course is the second of four courses in volleyball. Emphasis is placed on beginning level skills and offensive and defensive systems as they relate to team play. This course is intended for Kinesiology majors and all students interested in incorporating the sport of volleyball into an active lifestyle.

FT; AA/AS; CSU; UC.**EXSC 182C Volleyball III****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 182B with a Grade of "C" or better, or equivalent

This course is the third of four courses in volleyball. Emphasis is placed on intermediate level individual offensive and defensive skills. Topics include offensive team systems and options, and defensive theory and team systems as they relate to league play. This course is intended for Kinesiology majors and all students interested in incorporating the sport of volleyball into an active lifestyle.

FT; AA/AS; CSU; UC.**EXSC 182D Volleyball IV****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 182C with a Grade of "C" or better, or equivalent

This course is the fourth of four courses in volleyball. Emphasis is placed on advanced level individual offensive and defensive skills. Topics include diversified offensive and defensive team systems as they relate to intercollegiate and international level volleyball. This course is intended for Kinesiology majors and all students interested in incorporating the sport of volleyball into an active lifestyle.

FT; AA/AS; CSU; UC.**EXSC 183A Beach Volleyball I****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only

This course is the first of four courses in beach volleyball. Emphasis is placed on volleyball terminology, introductory level skills, improvement of cardiovascular/aerobic fitness, basic rules, safety procedures, strategies and etiquette. This course is intended for kinesiology majors and all students interested in incorporating the sport of beach volleyball into an active lifestyle.

FT; AA/AS; CSU; UC.**EXSC 183B Beach Volleyball II****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 183A with a Grade of "C" or better, or equivalent

This course is the second of four courses in beach volleyball. Emphasis is placed on beginning level skills and offensive and defensive systems as they relate to team play. This course is intended for Kinesiology majors and all students interested in incorporating the sport of volleyball into an active lifestyle.

FT; AA/AS; CSU; UC.**EXSC 183C Beach Volleyball III****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 183B with a Grade of "C" or better, or equivalent

This is the third of four courses in beach volleyball. Topics include intermediate skill development, introduction to plyometric training, team strategies on offense and defense. This course is intended for kinesiology majors and all students interested in incorporating the sport of beach volleyball into an active lifestyle.

FT; AA/AS; CSU; UC.**EXSC 183D Beach Volleyball IV****0.5-1 hours lab; 0.5-1 units****Grading:** Letter Grade Only**Advisory:** EXSC 183C with a Grade of "C" or better, or equivalent

This is the fourth of four courses in beach volleyball. Topics include advanced skill development, introduction to plyometric training, team strategies on offense and defense. This course is intended for kinesiology majors and all students interested in incorporating the sport of beach volleyball into an active lifestyle.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 200 Intercollegiate Badminton I

2-3.5 hours lab; 2-3.5 units

Grading: Letter Grade Only

Advisory: EXSC 154A with a Grade of "C" or better, or equivalent or previous competitive badminton experience

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 200

This is a course for students competing in their first intercollegiate badminton season. The course is offered in the spring semester and may be taken two times for credit. Students must demonstrate increased proficiency and skill attainment with each repetition.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 201 Intercollegiate Badminton II

2-3.5 hours lab; 2-3.5 units

Grading: Letter Grade Only

Advisory: EXSC 200 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 201

This is a course for students competing in their second intercollegiate badminton season. The course is offered in the spring semester and may be taken two times for credit. Students must demonstrate increased proficiency and skill attainment with each repetition.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 202 Intercollegiate Baseball I

2-3.5 hours lab; 2-3.5 units

Grading: Letter Grade Only

Advisory: EXSC 230A with a Grade of "C" or better, or equivalent Theories and Strategies of Baseball I

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 202

This course is intended for the first season of intercollegiate competition. Baseball skills and game strategies are at a more advanced level of participation than those of an introductory course in baseball. This course may be taken two times for credit.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 203 Intercollegiate Baseball II

2-3.5 hours lab; 2-3.5 units

Grading: Letter Grade Only

Advisory: EXSC 230B with a Grade of "C" or better, or equivalent Theories and Strategies of Baseball II

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 203

This course is intended for the second season of intercollegiate competition. Baseball skills and game strategies are at the advanced levels of participation. This course may be taken two times for credit.

FT; AA/AS; CSU; UC.

EXSC 204 Intercollegiate Basketball I

2-3.5 hours lab; 2-3.5 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 204

This course is intended for the first season of intercollegiate competition. Basketball skills and game strategies are at a more advanced level of participation than those of an introductory course in basketball. This course may be taken two times for credit.

FT; AA/AS; CSU; UC.

EXSC 205 Intercollegiate Basketball II

2-3.5 hours lab; 2-3.5 units

Grading: Letter Grade Only

Advisory: EXSC 204 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 205

This course is intended for the second season of intercollegiate competition. Basketball skills and game strategies are at the advanced levels of participation. This course may be taken two times for credit.

FT; AA/AS; CSU; UC.

EXSC 206 Intercollegiate Cross-Country I

2-3.5 hours lab; 2-3.5 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 206

This course is for students participating in their first season of intercollegiate cross-country competition. This course may be taken two times for credit. Students must demonstrate increased proficiency and skill attainment with each repetition.

FT; AA/AS; CSU; UC.

EXSC 207 Intercollegiate Cross Country II**2-3.5 hours lab; 2-3.5 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 207

This course is for students participating in their second season of intercollegiate cross-country competition. This course may be taken two times for credit. Students must demonstrate increased proficiency and skill attainment with each repetition.

FT; AA/AS; CSU; UC.**EXSC 214 Intercollegiate Soccer I****2-3.5 hours lab; 2-3.5 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 214.

This is a course in which students competing in their first intercollegiate soccer season learn and practice the techniques and strategies necessary for successful participation. The topics covered are fundamental through advanced skills as well as offensive and defensive strategies. This course is offered separately for men and women in the fall semester. This course may be taken two times for credit.

FT; AA/AS; CSU; UC.**EXSC 215 Intercollegiate Soccer II****2-3.5 hours lab; 2-3.5 units****Grading:** Letter Grade Only**Advisory: Concurrent enrollment in:** EXSC 234B**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 215

This is a course in which students competing in their second intercollegiate soccer season of competition learn and practice the techniques and strategies necessary for successful participation. Those topics covered are fundamental through advanced soccer skills and both offensive and defensive strategies. This course is offered separately for both men and women in the Fall semester. This course may be taken two times for credit.

FT; AA/AS; CSU; UC.**EXSC 216 Intercollegiate Softball I****2-3.5 hours lab; 2-3.5 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 216.

A physician's medical release form is required.

This course is designed for students competing in their first intercollegiate softball season. Students will learn and practice the techniques and strategies necessary for successful participation. Those topics covered are fundamental through advanced softball skills and offensive and defensive strategies. Students must demonstrate increased softball skill proficiency and skill attainment with each repetition. This course may be taken two times for credit.

FT; AA/AS; CSU; UC.**EXSC 217 Intercollegiate Softball II****2-3.5 hours lab; 2-3.5 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 217

A physician's medical release form is required.

This course is designed for students competing in their second intercollegiate softball season. Students will learn and practice the techniques and strategies necessary for successful participation. Those topics covered are fundamental through advanced softball skills and offensive and defensive strategies. Students must demonstrate increased softball skill proficiency and skill attainment with each repetition. This course may be taken two times for credit.

FT; AA/AS; CSU; UC.**EXSC 220 Intercollegiate Tennis I****2-3.5 hours lab; 2-3.5 units****Grading:** Letter Grade Only**Advisory:** EXSC 178D with a Grade of "C" or better, or equivalent or previous competitive tennis experience**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 220.

This is a course for students competing in their first intercollegiate tennis season. This course is offered in the spring semester for men and women and may be taken two times for credit. Students must demonstrate increased proficiency and skill attainment with each repetition.

FT; AA/AS; CSU; UC.

EXSC 221 Intercollegiate Tennis II**2-3.5 hours lab; 2-3.5 units****Grading:** Letter Grade Only**Advisory:** EXSC 220 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 221

This is a course for students competing in their second intercollegiate tennis season. This course is offered in the spring semester for men and women and may be taken two times for credit. Students must demonstrate increased proficiency and skill attainment with each repetition.

FT; AA/AS; CSU; UC.**EXSC 222 Intercollegiate Track and Field I****2-3.5 hours lab; 2-3.5 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 222

This course is for students competing in their first season of intercollegiate track and field. This course may be taken two times for credit. Students must demonstrate increased proficiency and skill attainment with each repetition.

FT; AA/AS; CSU; UC.**EXSC 223 Intercollegiate Track and Field II****2-3.5 hours lab; 2-3.5 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 223.

This course is for students competing in their second season of intercollegiate track and field. This course may be taken two times for credit. Students must demonstrate increased proficiency and skill attainment with each repetition.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 224 Intercollegiate Volleyball I**2-3.5 hours lab; 2-3.5 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 224.

This is the first course in intercollegiate volleyball competition. Topics include analyses of team offensive and defensive systems. This course is designed to prepare advanced volleyball students for intercollegiate competition. This course is offered in the fall and spring semester and may be taken two times for credit. Students must demonstrate increased proficiency and skill attainment with each repetition.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 225 Intercollegiate Volleyball II**2-3.5 hours lab; 2-3.5 units****Grading:** Letter Grade Only**Advisory:** EXSC 224 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 225.

This is the second course in intercollegiate volleyball competition. This course is offered in the fall and spring semester and may be taken two times for credit. Students must demonstrate increased proficiency and skill attainment with each repetition.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

EXSC 228A Intercollegiate Beach Volleyball I**2-3.5 hours lab; 2-3.5 units****Grading:** Letter Grade Only

This course is designed for students participating in intercollegiate beach volleyball competitions. Topics include techniques of beach volleyball, individual and team offensive tactics, individual and team defensive tactics, and rules of play. This course is designed to improve student proficiency and skill level with each repetition and may be taken two times for credit.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

EXSC 228B Intercollegiate Beach Volleyball II
2-3.5 hours lab; 2-3.5 units

Grading: Letter Grade Only

Advisory: EXSC 228A with a Grade of "C" or better, or equivalent

This course is designed for students participating in intercollegiate beach volleyball competitions. Topics include advanced techniques of beach volleyball, advanced individual and team offensive tactics, advanced individual and team defensive tactics, and further study in rules of play. This course is designed to improve student proficiency and skill level with each repetition and may be taken two times for credit.

FT; AA/AS; CSU; UC.Limitation: UC Transfer

Limitation. See a Counselor. Limitation: UC Transfer Limitation. See a Counselor.

EXSC 229A Theories and Strategies of Badminton I

24-27 hours lecture/0.5 hours lab; 2 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 249A.

This is the first in a series of two courses that explore the theories and strategies of badminton. Emphasis is placed on the theoretical concepts necessary for successful participation in intercollegiate badminton. Topics include mechanical analysis of fundamentals through advanced badminton skills, offensive/defensive strategies, statistics, rules, and officiating. This course is designed for first year intercollegiate badminton student athletes.

FT; AA/AS; CSU; UC.

EXSC 229B Theories and Strategies of Badminton II

24-27 hours lecture/0.5 hours lab; 2 units

Grading: Letter Grade Only

Advisory: EXSC 229A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 249B.

This is the second in a series of two courses that explores the theories and strategies of badminton. Emphasis is placed on advanced theoretical concepts for successful participation in intercollegiate badminton. Topics include mechanical analysis of advanced badminton strokes and placement of shots, advanced movement, performance factors, and options for continuing badminton participation post community college. This course is designed second year intercollegiate badminton student athletes.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 230A Theories and Strategies of Baseball I
24-27 hours lecture/0.5 hours lab; 2 units

Grading: Letter Grade Only

Advisory: Concurrent enrollment in: EXSC 202 or EXSC 203

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 252A

This course provides instruction to develop the fundamental skills of throwing, catching, running, hitting, and the rules of NCAA baseball as well as strategies used during game competition. Sport specific speed and strength development is emphasized. This course is intended for intercollegiate baseball players only.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 230B Theories and Strategies of Baseball II
24-27 hours lecture/0.5 hours lab; 2 units

Grading: Letter Grade Only

Advisory: EXSC 230A with a Grade of "C" or better, or equivalent

Advisory: Concurrent enrollment in: EXSC 202 or EXSC 203

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 252B.

This is the second course in Theories and Strategies of Baseball. Course emphasis is on advanced skills, strategy, tactics, rules officiating, and organizational procedures in baseball. This course is intended for intercollegiate baseball players.

FT; AA/AS; CSU; UC.

EXSC 231A Theories and Strategies of Basketball I
24-27 hours lecture/0.5 hours lab; 2 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 251A.

This course covers the theoretical concepts necessary for students to compete successfully in their first intercollegiate basketball season. Topics include rules, game strategies, history, and game preparation. The physiological requirements for the intercollegiate athlete and importance of nutritional components for optimal performance are emphasized. Separate sections of this course are offered for men and women. The course is intended for intercollegiate athletes.

FT; AA/AS; CSU; UC.

EXSC 231B Theories and Strategies of Basketball II

24-27 hours lecture/0.5 hours lab; 2 units

Grading: Letter Grade Only

Advisory: EXSC 231A with a Grade of "C" or better, or equivalent

Advisory: Concurrent enrollment in: EXSC 205

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 251B.

This course covers advanced theoretical concepts and techniques for intercollegiate basketball competition. Topics include advanced team strategies, efficient basketball conditioning techniques, goals for game preparation, and leadership qualities for basketball. Concepts of team building and social skills necessary for success at the intercollegiate level are also emphasized. Separate sections of this course are offered for men and women. The course is intended for intercollegiate athletes.

FT; AA/AS; CSU; UC.

EXSC 232A Professional Activities/Cross Country I
24-27 hours lecture/0.5 hours lab; 2 units

Grading: Letter Grade Only

Advisory: Completion of or concurrent enrollment in: EXSC 206 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 258A

This course introduces students to the development of skills for cross country running as well as biomechanics, exercise physiology, workout design, scouting, and procedures for administering a college cross country meet. The course is designed for students who are participating in this sport and for those who may be interested in coaching cross country teams.

FT; AA/AS; CSU; UC.

EXSC 232B Professional Activities/Cross Country II

24-27 hours lecture/0.5 hours lab; 2 units

Grading: Letter Grade Only

Advisory: Completion of or concurrent enrollment in: EXSC 207 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 258B.

This course covers the development of advanced skills in cross country running, including techniques of biomechanics, exercise physiology, workout design, and scouting. Emphasis is placed on procedures for administering college cross country meets and coaching techniques. This course is designed for second-year students who are participating in this sport and for those who are interested in coaching cross-country teams.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 234A Theories and Strategies of Soccer I
24-27 hours lecture/0.5 hours lab; 2 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 257A. This course covers the theoretical concepts necessary for students to compete successfully in their first intercollegiate soccer season. Topics include mechanical analysis of fundamental through advanced soccer skills, offensive and defensive strategies, statistics, rules, and officiating. Separate sections of this course are offered for men's soccer and women's soccer. The course is intended for intercollegiate athletes.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 234B Theories and Strategies of Soccer II
24-27 hours lecture/0.5 hours lab; 2 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 257B. This course covers advanced theoretical concepts and techniques for intercollegiate soccer competition. Topics include advanced team strategies, efficient conditioning techniques, goals for game preparation, and leadership qualities. Concepts for team building and social skills necessary for success at the intercollegiate level are emphasized. Separate sections of this course are offered for men's soccer and women's soccer. The course is intended for intercollegiate athletes.

FT; AA/AS; CSU; UC.

EXSC 235A Theories and Strategies of Softball I
24-27 hours lecture/0.5 hours lab; 2 units

Grading: Letter Grade Only

Advisory: Concurrent enrollment in: EXSC 216
Limitation on Enrollment: This course is not open to students with previous credit for PHYE 253A. This course explores a variety of softball strategies and techniques focusing on the development of offensive and defensive strategies, rules, officiating, video review, and mechanical analysis of fundamentals through advanced softball skills. The course is open to students interested in participating in intercollegiate softball or kinesiology majors.

FT; AA/AS; CSU; UC.

EXSC 235B Theories and Strategies of Softball II
24-27 hours lecture/0.5 hours lab; 2 units

Grading: Letter Grade Only

Advisory: Concurrent enrollment in: EXSC 217

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 253B. This course develops both mental and physical competency with emphasis on advanced skill, mechanics, rules, offensive and defensive strategies, officiating, facilities, video review, organizational procedures and physiological aspects of the game as they relate to college softball. The course is open to students interested in intercollegiate softball and kinesiology majors.

FT; AA/AS; CSU; UC.

EXSC 236A Theories and Strategies of Beach Volleyball I
24-27 hours lecture/0.5 hours lab; 2 units

Grading: Letter Grade Only

Advisory: Completion of or concurrent enrollment in: EXSC 228A with a Grade of "C" or better, or equivalent. This course covers theoretical concepts necessary for successful participation in beach volleyball. Topics covered include mechanical analysis of fundamentals through advanced beach volleyball skills, offensive/defensive strategies, court etiquette, rules and officiating. This course is designed for students competing on the intercollegiate beach volleyball team and those interested in the sport of beach volleyball.

FT; AA/AS; CSU; UC.

EXSC 236B Theories and Strategies of Beach Volleyball II
24-27 hours lecture/0.5 hours lab; 2 units

Grading: Letter Grade Only

Advisory: Completion of or concurrent enrollment in: EXSC 228B with a Grade of "C" or better, or equivalent. This course covers advanced theoretical concepts necessary for successful participation in beach volleyball. Topics include advanced team strategies, efficient beach volleyball conditioning techniques, goals for game preparation, and leadership qualities for beach volleyball. Concepts of team building and social skills necessary for success at the intercollegiate level are also emphasized. This course is designed for students competing on the intercollegiate beach volleyball team and those interested in the sport of beach volleyball.

FT; AA/AS; CSU; UC.

EXSC 237A Theories and Strategies of Tennis I
24-27 hours lecture/0.5 hours lab; 2 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 248A.

This is the first in a series of two courses that explore the theories and strategies of tennis. Emphasis is placed on the theoretical concepts necessary for successful participation in intercollegiate tennis. Topics include the match format and rules of community college tennis, mechanical analysis of fundamental through advanced tennis skills, offensive and defensive tactics and strategies, statistics, and etiquette. This course is designed for first year intercollegiate tennis student athletes.

FT; AA/AS; CSU; UC.

EXSC 237B Theories and Strategies of Tennis II
24-27 hours lecture/0.5 hours lab; 2 units

Grading: Letter Grade Only

Advisory: Concurrent enrollment in: EXSC 237A

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 248B.

This is the second in a series of courses that explore the theories and strategies of tennis. Emphasis is placed on the advanced theoretical concepts and practical skills necessary for successful participation in Intercollegiate Tennis. Topics covered include mechanical analysis of advanced tennis skills, advanced ball control, advanced offensive and defensive strategies and tactics, rules, etiquette and statistics. This course is designed for second year intercollegiate tennis student athletes.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 239A Theories and Strategies of Intercollegiate Volleyball I
24-27 hours lecture/0.5 hours lab; 2 units

Grading: Letter Grade Only

Advisory: Concurrent enrollment in: EXSC 224 or EXSC 225

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 255A.

This is a course in which students competing in their first intercollegiate volleyball season learn the theoretical concepts necessary for successful participation. Topics covered include mechanical analysis of fundamentals through advanced volleyball skills, offensive/defensive strategies, statistics, rules, and officiating.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 239B Theories and Strategies of Intercollegiate Volleyball II
24-27 hours lecture/0.5 hours lab; 2 units

Grading: Letter Grade Only

Advisory: EXSC 239A with a Grade of "C" or better, or equivalent

Advisory: Concurrent enrollment in: EXSC 225

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 255B.

This is a course in which students competing in their second intercollegiate volleyball season learn the theoretical concepts necessary for successful participation. Topics covered include officiating, statistics, concepts for team building, goals for game preparation, leadership, and social skills for success at the intercollegiate level.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

EXSC 240 Physical Education in the Elementary Schools
40-45 hours lecture/0.5 hours lab; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 240

This course includes a brief study of the growth, development, and characteristics of the elementary school child. The elements of written lesson plans, units, evaluations, and various forms of testing are covered. The teaching of fundamental skills, rhythms, dance, and games based on sound physiological principles for this age group is emphasized. The positive impact of physical education on health and wellness, in addition to, academic achievement is explored. Students gain knowledge and understanding of the physiological and sociological effects of alcohol, narcotics, drugs, and tobacco and of ways to identify, refer, and support students and their families who may be at risk of physical, psychological, emotional, or social health problems. Actual teaching situations are experienced in the lab sessions. This course is designed to fulfill lower division preparation for the kinesiology major or for students interested in elementary education.

FT; AA/AS; CSU.

EXSC 241B Introduction to Kinesiology

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 241B.

This introductory course covers the professional career options, history, basic philosophy, and principles of kinesiology. Other topics include current and emerging issues in foods and nutrition. This course is intended for Kinesiology majors or anyone exploring opportunities in the fields of health, wellness, physical activity, nutrition, or sport.

FT; AA/AS; CSU; UC; C-ID: KIN 100.

EXSC 242B Care and Prevention of Injuries

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 242, 242B or EXSC 289

This course covers the theory and practice of emergency field care and basic athletic first aid. Topics include prevention and care of common athletic injuries, bandaging and/or taping techniques. This course is designed for students interested in athletic training, coaching of sports and majoring in Physical Education, Kinesiology and Exercise Science.

FT; AA/AS; CSU; UC.

EXSC 270 Exercise Science Internship / Work Experience

1-4 hours other; 1-4 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 270.

This course provides on-the-job learning experience for students employed in an exercise science-related job or internship. Students develop workplace competencies, critical thinking skills, and problem solving abilities through the creation, and achievement of job-related behavioral learning objectives. This course may be taken up to four times. One unit of credit may be earned for every 54 hours of work experience. A maximum of fourteen credit hours for all work experience subject areas may be earned during one enrollment period. This course is intended for students majoring in exercise science or those interested in the fitness, health, and wellness industry. This includes but is not limited to the fields of personal training, physical therapy, strength and conditioning, health and wellness coaching, and yoga teaching.

FT; AA/AS; CSU.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

EXSC 280 Applied Exercise Physiology

32-36 hours lecture; 2 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 280

This course is an introduction to how the body functions under conditions of exercise stress and how fitness behaviors affect health and wellness. Emphasis is placed on muscular, cardiorespiratory, and other physiological processes that occur as a result of exercise conditioning, as well as their effects on disease risk. This course is intended for students seeking certification as personal trainers.

FT; AA/AS; CSU.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

EXSC 281 Applied Kinesiology

32-36 hours lecture; 2 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 281

This course is a study of movement as it relates to exercise under both normal and injury conditions. Students learn the practical implications of exercise on bones, joints, nerves, and muscles. Emphasis is placed on applying body alignment, range of motion, stabilization, and acceleration principles to the development of exercise programs. This course is intended for students seeking certification as personal trainers.

FT; AA/AS; CSU.

EXSC 282 Techniques of Weight Training

32-36 hours lecture; 2 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for PHYE 282.

This course is an introduction to teaching techniques in weight training. Topics include anatomy, physiology, training sequences, equipment options, safety factors, and contraindications. This course is intended for students seeking certification as personal trainers.

FT; AA/AS; CSU.

EXSC 283 Exercise and Fitness Assessment**24-27 hours lecture/0.5 hours lab; 2 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 283.

This course prepares students to assess and evaluate exercise and fitness parameters. Topics include the measurement and evaluation of cardiorespiratory endurance; muscular strength and endurance; flexibility; body fat; pulmonary function; and blood pressure. Emphasis is placed on determining the appropriate test, conducting the test, interpreting the results, and creating an exercise program. This course is intended for students seeking certification as personal trainers.

FT; AA/AS; CSU.**EXSC 284 Fitness and Sports Nutrition****32-36 hours lecture; 2 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 284.

This course covers the basic principles of nutrition and the ramifications on sports activities. Topics include general nutrition, nutritional considerations for optimal sports performance, and weight control. This course is intended for students seeking certification as personal trainers.

FT; AA/AS; CSU.**EXSC 285 Exercise for Special Populations****32-36 hours lecture; 2 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 285.

This course presents exercise implications for special populations related to age, medical condition, and level of fitness. Emphasis is placed on cardiac conditions; diabetes; obesity; physical disabilities; Human Immunodeficiency Virus (HIV) and Acquired Immune Deficiency Syndrome (AIDS); asthma; and sensory impairments. Issues and barriers to exercise are included for each of the following groups: seniors; children; athletes; the mentally impaired; and pregnant and postpartum women. This course is intended for students seeking certification as personal trainers.

FT; AA/AS; CSU.**EXSC 286 Techniques of Exercise Leadership****28-31.5 hours lecture/0.3 hours lab; 2 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 286.

This course provides students with the principles and techniques involved in developing a personal trainer/client relationship. Emphasis is placed on client assessment, communication skills, program design, exercise adherence, teaching strategies, and professional responsibility and liability. This course is intended for students seeking certification as personal trainers.

FT; AA/AS; CSU.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

EXSC 286 Techniques of Exercise Leadership**28-31.5 hours lecture/0.3 hours lab; 2 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 286.

This course provides students with the principles and techniques involved in developing a personal trainer/client relationship. Emphasis is placed on client assessment, communication skills, program design, exercise adherence, teaching strategies, and professional responsibility and liability. This course is intended for students seeking certification as personal trainers.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

EXSC 288 Personal Training Professional Preparation**16-18 hours lecture; 1 unit****Grading:** Letter Grade Only**Advisory: Concurrent enrollment in:** EXSC 270**Limitation on Enrollment:** This course is not open to students with previous credit for PHYE 287, PHYE 288 or EXSC 287.

This course is designed to provide students in the Personal Trainer Certificate Program with practical experience in the field of exercise and fitness. Emphasis is placed on participant screening, evaluation, and exercise program design; self-marketing; trainer/client relationships; and professional responsibility in a fitness setting.

FT; AA/AS; CSU.

EXSC 290 Independent Study**1-3 hours other; 1-3 units****Grading:** Letter Grade or Pass/No Pass**Limitation on Enrollment:** Obtain Permission Number from Instructor

This course is not open to students with previous credit for PHYE 290.

This course is for students who wish to conduct additional research, a special project, or learning activities in the field of exercise science. It is not intended to replace an existing course in the discipline. In this course students will have a written contract with their instructor for activities such as: preparing problem analysis, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals.

FT; AA/AS; CSU.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

EXSC 294 Health and Wellness Coaching**48-54 hours lecture; 3 units****Grading:** Letter Grade Only

This course provides students with the theoretical knowledge and practical skills required to be a health and wellness coach. Emphasis is placed on effective coach-to-client communication techniques, rapport building, motivational interviewing, and behavior change theories. This course is intended for students who are preparing for the American Council on Exercise's (ACE) Health Coach Certification and/or the National Board for Health and Wellness Coaching's National Board Certified Health and Wellness Coach (NBC-HWC) exam.

FT; AA/AS; CSU.**EXSC 392A Special Topics in Sports Theory and Training I****8-9 hours lecture/0.5-2 hours lab; 1-3 units****Grading:** Letter Grade or Pass/No Pass

This beginning-level course provides students the opportunity to develop theoretical understanding and individual training in a specific sport. Theories, principles, and techniques are taught for a variety of different sports that may vary from term to term. Sports focus areas for each section are listed in the class schedule.

FT; AA/AS; CSU.**EXSC 392B Special Topics in Sports Theory and Training II****8-9 hours lecture/0.5-2 hours lab; 1-3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** EXSC 392A with a Grade of "C" or better, or equivalent

This intermediate-level course provides students the opportunity to develop additional theoretical understanding and individual training in a specific sport. Theories, principles, and techniques are taught for a variety of different sports that may vary from term to term. Sports focus areas for each section are listed in the class schedule.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

FJMP 100 Introduction to Cinema

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for RTVC 160 or RTVF 160. This course provides an introduction to the medium of cinema as a means of expression and communication. Emphasis is placed on film viewings and analysis, lecture, and discussion. Topics include aesthetic and storytelling techniques, history of the industry, key inventors and artistic contributors, technology, international influences, and current developments. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

FJMP 101 Introduction to Mass Media

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DJRN 100 or JOUR 202. This course is an introduction to mass media in the United States. Emphasis is placed on the analysis of the impact of current and emerging media forms on society, culture, diversity, equity, inclusion, and social justice, as well as on ways that media and social institutions shape each other. Topics include the history, structure, social impact, emerging technologies, and trends in broadcast, cinema, radio, print, and journalism. Problems and issues are examined in light of social and cultural constructs, economics, media literacy, technology, law and ethics, and social issues. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU; UC; C-ID: JOUR 100. Limitation: DJRN 100 and JOUR 202 combined: Maximum credit, one course. Limitation: DJRN 100 and JOUR 202 combined: Maximum credit, one course.

FJMP 102 Social Media in the Digital Age

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for JOUR 204 or DJRN 204. This course is a study of social media in contemporary society. Emphasis is placed on creating, communicating, and consuming information via digital, social, and mobile technologies in an evolving global environment. Topics include the history and impact of social media on countries and cultures, copyright and fair use, privacy and identity protection, and social analytics and reputation management. This course is designed for students in the digital journalism major and anyone interested in social media strategy and management.

FT; AA/AS; CSU.

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FJMP 110 Introduction to Video Editing

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for RTVC 153 or DMPR 153 or RTVF 153

This is a practical study of computer-based film and video editing. Emphasis is placed on the technical and aesthetic principles of post-production video editing for broadcast, short film, and web. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU.

FJMP 111 Single Camera Production**32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for RTVC 124 or RTVF 124. This is the first in a series of courses focused on the development, planning, and logistics of single camera video production. Topics include working individually and in groups planning video productions and operating video cameras, audio recorders, and lighting systems. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

FJMP 112 Introduction to Audio Production**32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for RTVC 107 or RTVF 107. This course is a study of the theory and practice of sound and audio techniques for media production. Emphasis is placed on project learning using audio software focusing on sound waveform terms, microphones, signal processors, consoles, and control surfaces. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

FJMP 120 Introduction to Screenwriting**32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for RTVC 110 or RTVF 110. This course is a study of the theory and practice of writing for film and media production. Emphasis is placed on preparing screenplays in proper formats, including fundamental technical, conceptual, and stylistic issues related to writing fiction and non-fiction scripts. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

FJMP 121 Fiction Film Production**32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for RTVC 167 or RTVF 167. This is the first in a series of courses focused on the modes and methods of fiction filmmaking. Emphasis is placed on short fiction film production. Topics include designing and executing multiple film projects individually and in groups as they analyze landmark fiction films. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing film degrees and anyone interested in media-related industries.

FT; AA/AS.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

FJMP 122 Documentary Film Production

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for RTVC 112 or RTVF 112. This is the first in a series of courses focused on the modes and methods of documentary filmmaking. Emphasis is placed on documentary film production. Topics include designing and executing multiple film projects individually and in groups as they analyze landmark documentary films. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing film degrees and anyone interested in media-related industries.

FT; AA/AS.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

FJMP 123 The Producer's Role in Film

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for RTVC 111 or RTVF 111. This course is an introduction to development, planning, and logistics of film production. Emphasis is placed on the creative and business practices required to transform a film screenplay into a finished film. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing film degrees and anyone interested in media-related industries.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

FJMP 124 Video Motion Graphics

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for DMPR 156 or RTVF 156. This is a practical study of computer-based film and video motion graphics design. Emphasis is placed on the technical and aesthetic principles of motion graphics and special effects design for broadcast, short film, and web. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

FJMP 130 Newswriting for Multiplatform Journalism

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DJRN 200 or JOUR 200 or RTVC 140 or RTVF 140

This course offers instruction and practice in the fundamentals of newswriting, reporting, and editing for professional media environments. Emphasis is on newsgathering strategies, writing basic news stories, and producing news content on deadline for multiplatform journalism organizations. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU; C-ID: JOUR 110.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

**FJMP 131 Multimedia Journalism Reporting
32-36 hours lecture/1 hour lab; 3 units**

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for DJRN 205

This course is a practical study of the basic components involved in using digital and mobile tools to publish news content. Emphasis is placed on using such tools for news reporting and gathering purposes for students to create and manage story packages for multiple media platforms from the standpoint of a working multimedia journalist. Topics include the use of multiple digital elements including text, visuals, audio, interactives, and digital design. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU; C-ID: JOUR 210.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

**FJMP 133 Broadcast News Production
16-18 hours lecture/2 hours lab; 3 units**

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for RTVC 145 or RTVF 145

This course is an introduction to the study of the practice of broadcast news production. Emphasis is placed on students gaining practical experience in a newsroom and television studio using a convergence model in which students collaborate with other student media on campus. Topics include news gathering, writing, researching, camera operation, and studio production, as well as delivering news programs across platforms. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

**FJMP 132 Multiplatform Journalism Production
3 hours lab; 3 units**

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for DJRN 210

This course is an introduction to the study of the practice of multiplatform journalism. Emphasis is placed on students gaining practical experience in a newsroom setting using a convergence model in which students collaborate with other student media on campus. Topics include writing, reporting, editing, and producing content for multiplatform news media publications. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU; C-ID: JOUR 130.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

**FJMP 134 Multiplatform Magazine Production
32-36 hours lecture/1 hour lab; 3 units**

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for DJRN 220

This course introduces students to writing, editing, and producing content for multiplatform magazines. Emphasis is placed on students gaining practical experience in a newsroom setting using a convergence model in which students collaborate with other student media on campus to produce multimedia journalism features and long form writing samples. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

FJMP 141 Audio Storytelling for Radio and Podcast

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for RTVC 130 or RTVF 130. This course is an introduction to audio storytelling production for radio and podcasts. Emphasis is placed on learning audio broadcast skills, including research, writing scripts, conducting interviews, and on-air presentation. Topics include remote and studio sound recording, editing, and mixing student-produced content for radio and podcast platforms. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU.

FJMP 142 Radio and Podcast Production

16-18 hours lecture/2 hours lab; 3 units

Grading: Letter Grade Only

This course is an introduction to the study of the practice of radio news and podcast production and operations. Emphasis is placed on students gaining practical experience in a studio setting using a convergence model in which students collaborate with other student media on campus. Topics include operating all aspects of the student-produced radio and podcast platforms, on-air performance skills, scheduling, the programming formula, the clock, station image, format selection, ratings, and research. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

FJMP 143 On-Camera Performance

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for RTVC 121 or RTVF 121. This course is a practical study of all phases of media performance. Emphasis is placed on hosting for news, sports, entertainment, weather, and social media talent. Topics include use of teleprompter, scripts, cue cards, and ad-libbing. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

FJMP 144 Multi-Camera Studio Operations

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for RTVC 118 or RTVF 118. This course is a survey of the theory, terminology, and operations of a multi-camera production studio and control room. Emphasis is placed on students gaining hands-on experience in directing. Topics include the operation of audio, camera, video switcher, lighting, graphics, and video. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU.

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FJMP 145 Art Direction for Film and Media Production

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for RTVC 126 or RTVF 126. This course is a study of the aesthetics and techniques of art direction for film and media production. Emphasis is placed on developing the student's ability to control the look of production sets through the use of design techniques. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU.

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FJMP 146 Lighting for Film and Media Production

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for RTVC 128 or RTVF 128. This course is a study of the theory and practice of lighting for film and media production. Emphasis is placed on the essence of various kinds of light and how light works. Topics include lighting techniques to create visual moods for various film and media production projects. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

FJMP 211 Single Camera Production Workshop
32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: FJMP 111 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for RTVF 246A. This is the second in a series of courses focused on the development, planning, and logistics of single camera video production. Topics include supervising video productions and operating video cameras, audio recorders, and lighting systems. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU.

FJMP 221 Fiction Film Production Workshop

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: FJMP 121 with a Grade of "C" or better, or equivalent

This is the second in a series of courses focused on the modes and methods of fiction filmmaking. Emphasis is placed on short fiction film direction. Topics include designing and executing a single film project individually or with the support of a group and presenting their analysis of landmark fiction films. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing film degrees and anyone interested in media-related industries.

FT; AA/AS; CSU.

FJMP 222 Documentary Film Production Workshop

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: FJMP 122 with a Grade of "C" or better, or equivalent

This is the second in a series of courses focused on the modes and methods of documentary filmmaking. Emphasis is placed on documentary film direction. Topics include designing and executing a single film project individually or with the support of a group and presenting their analysis of landmark documentary films. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing film degrees and anyone interested in media-related industries.

FT; AA/AS.

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FJMP 232A Multiplatform Journalism Workshop I

3 hours lab; 3 units

Grading: Letter Grade Only

Prerequisite: FJMP 132 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DJRN 211

This course is the first in a series of production workshops in multiplatform journalism. Emphasis is placed on creating content and editing in a newsroom using a convergence model in which students collaborate with other student media on campus to produce a wide range of multimedia journalism samples. Topics include each stage of the multimedia journalism production process, including content development and peer editing. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU; C-ID: JOUR 131.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

FJMP 232B Multiplatform Journalism Workshop II

3 hours lab; 3 units

Grading: Letter Grade Only

Prerequisite: FJMP 232A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DJRN 212

This course is the second in a series of production workshops in multiplatform journalism. Emphasis is placed on practical experience creating content and managing the production process in a newsroom using a convergence model in which students collaborate with other student media on campus to produce a wide range of multimedia journalism samples. Topics include news editing, management responsibilities, and deadline adherence. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

FJMP 232C Multiplatform Journalism Workshop III

3 hours lab; 3 units

Grading: Letter Grade Only

Prerequisite: FJMP 232B with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DJRN 213

This course is the third in a series of production workshops in multiplatform journalism. Emphasis is placed on practical experience creating content and supervising a newsroom using a convergence model in which students collaborate with other student media on campus to produce a wide range of multimedia journalism samples. Topics include effective leadership in a newsroom, ensuring continuity of publication structure and content, and connections with other platforms. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

FJMP 233A Broadcast News Workshop I

16-18 hours lecture/2 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: FJMP 133 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for RTVC 249A or RTVF 249A. This course is the first in a series of journalism and media production workshops in broadcast news. Emphasis is placed on creating content and editing in a newsroom and television studio using a convergence model in which students collaborate with other student media on campus to produce a wide range of multimedia journalism samples. Topics include identifying newsworthy stories, newswriting and reporting for multimedia journalism content development, news and video editing, and control room operations. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

FJMP 233B Broadcast News Workshop II

16-18 hours lecture/2 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: FJMP 233A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for RTVC 249B or RTVF 249B. This course is the second in a series of journalism and media production workshops in broadcast news. Emphasis is placed on not only creating content, but managing the production process in a newsroom and television studio using a convergence model in which students collaborate with other student media on campus to produce a wide range of multimedia journalism samples. Topics include producing and directing weekly news programs, evaluating newsworthy stories, and implementing newswriting, interviewing, and video standards. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

FJMP 233C Broadcast News Workshop III

16-18 hours lecture/2 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: FJMP 233B with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for RTVC 249C or RTVF 249C. This course is the third in a series of journalism and media production workshops in broadcast news. Emphasis is placed on not only creating content, but supervising a newsroom and television studio using a convergence model in which students collaborate with other student media on campus to produce a wide range of multimedia journalism samples. Topics include effective leadership in a newsroom and studio, establishing newswriting and video standards, ensuring deadline adherence, maintaining continuity of broadcast quality, and communicating team goals clearly. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

FJMP 242A Radio and Podcast Workshop I

16-18 hours lecture/2 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: FJMP 142 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for RTVF 247A. This course is the first in a series of workshops in radio news and podcast production. Emphasis is placed on creating content and editing in a studio setting using a convergence model in which students collaborate with other student media on campus to produce a wide range of multimedia journalism samples. Topics include creating spoken word content for the student radio station and podcast platforms. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

FJMP 242B Radio and Podcast Workshop II

16-18 hours lecture/2 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: FJMP 242A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for RTVF 247B. This course is the second in a series of workshops in radio news and podcast production. Emphasis is placed on not only creating content, but managing the production process in studio setting using a convergence model in which students collaborate with other student media on campus to produce a wide range of multimedia journalism samples. Topics include organizing and scheduling all live and recorded elements for on-air presentation, as well as creating spoken word content for the student radio station and podcast platforms. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

FJMP 242C Radio and Podcast Workshop III

16-18 hours lecture/2 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: FJMP 242B with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for RTVF 247C

This course is the third in a series of workshops in radio news and podcast production. Emphasis is placed on not only creating content, but supervising in a studio setting using a convergence model in which students collaborate with other student media on campus to produce a wide range of multimedia journalism samples. Topics include supervising audio storytelling productions for radio and podcast, with an emphasis on editorial oversight, as well as creating spoken word content for the student radio station and podcast platforms. Students gain practical experience in a studio setting using a convergence model in which students collaborate with other student media on campus to produce a wide range of audio storytelling samples. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. This course is designed for students pursuing media-related majors and anyone interested in media-related industries.

FT; AA/AS; CSU.

FJMP 270 Work Experience

1-4 hours other; 1-4 units

Grading: Letter Grade Only

Limitation on Enrollment: Obtain Permission Number-Work Exp. Coordinator

This course provides on-the-job learning experience for students employed in a media-related job or internship. Students develop workplace competencies, critical thinking skills, and problem solving abilities through the creation, and achievement of job-related behavioral learning objectives. One unit of credit maybe earned for each 54 hours of paid employment. This course may be taken up to four times. This course is intended for students majoring in film, journalism, media production, radio and podcasting, or those interested in the media industry.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

FJMP 290 Independent Study

1-3 hours other; 1-3 units

Grading: Letter Grade Only

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is not open to students with previous credit for DJRN 290

This course is for students interested in individualized learning in the film, journalism, and/or media production field. It is not intended to replace an existing course in the discipline. Emphasis is placed on focused research, creating and completing projects, and/or exploring issues related to the film, journalism, and/or media production field. A written contract of specific activities and assignments to be completed are assessed and approved by the instructor. Regular meetings between the student and instructor are required to evaluate progress.

FT; AA/AS; CSU.

FREN-French

FREN 101 First Course in French**80-90 hours lecture; 5 units****Grading:** Letter Grade or Pass/No Pass**Limitation on Enrollment:** This course is not open to students with previous credit for FREN 100

This course is a first semester course in French and is designed to introduce students to the French language and cultures of the French-speaking world. In this interactive course, students use the language by speaking, listening, reading, and writing at the novice level. Basic language structures and vocabulary for communication are examined and explored in French. This course is designed for students majoring in French and all students interested in the French language.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

FREN 102 Second Course in French**80-90 hours lecture; 5 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** FREN 101 with a Grade of "C" or better, or equivalent or two years of high school French.

This course is a second semester course in French and is intended for students interested in further study of the French language and cultures of the French-speaking world. In this interactive course, students use listening, reading, speaking, and writing at a more complex level than in the first course. The students further develop their receptive and productive competencies to the high-novice/low-intermediate level. Additional language structures and vocabulary for communication are examined and explored in French. This course is designed for students majoring in French and all students interested in the French language.

FT; AA/AS; CSU; UC.**FREN 201 Third Course in French****80-90 hours lecture; 5 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** FREN 102 with a Grade of "C" or better, or equivalent or three years of high school French

This is an intermediate course in French. Language structures and vocabulary for communication are examined and explored through speaking, listening, reading and writing at the intermediate level. Students explore in more depth than in previous courses the history and the culture of the French-speaking world. This course is appropriate for students preparing for a major in French as well as for those who wish to continue their studies of the French language and culture.

FT; AA/AS; CSU; UC.**FREN 202 Fourth Course in French****80-90 hours lecture; 5 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** FREN 201 with a Grade of "C" or better, or equivalent or four years of high school French

This is an advanced-intermediate course and is the fourth course in the French language sequence. In this interactive course, language structures and vocabulary for communication are examined and studied through speaking, listening, reading and writing at the high-intermediate level. Students continue to explore the history and the culture of the French-speaking world. Readings of literary and culturally relevant authentic materials are examined in depth. This course is designed for students preparing for a major in French as well as for those who have a strong interest in the French language and culture.

FT; AA/AS; CSU; UC.**FREN 210 Conversation and Composition in French I****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** FREN 102 with a Grade of "C" or better, or equivalent Or successful completion of three years of high school French.

This course further develops oral comprehension and fluency as well as written communication at a mid-intermediate level in French through culturally relevant materials. Students develop spoken and written vocabulary, dramatize everyday topics of conversation, interpret and describe materials, and compare and contrast the cultures of the French speaking world with U.S. culture both orally and in writing. Writing strategies are emphasized and literature is introduced. This course is intended for students who want to enhance their skills in the French language.

FT; AA/AS; CSU; UC.**FREN 211 Conversation and Composition French II****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** FREN 210 with a Grade of "C" or better, or equivalent

This course develops oral comprehension and fluency as well as written proficiency in French at an advanced-intermediate level through reading, analyzing, discussing, and reporting on culturally relevant materials. Students develop oral and reading vocabulary skills, study the cultures of the French-speaking world, and further develop the reading strategies introduced in French 210 through reading literature. This course is intended for students who want to further enhance their skills in the French language.

FT; AA/AS; CSU; UC.

FREN 290 Independent Study

1-3 hours other; 1-3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is designed for intermediate students who wish to work on special projects and to further develop further their skill in communication in French. It is not intended to replace an existing course in the discipline. In this course students have a written contract with their instructor for activities such as: preparing problem analyses, engaging in primary research and preparing reports.

GEND-Gender Studies

GEND 101 Introduction to Gender Studies

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

This course is an interdisciplinary study of gender. Emphasis is placed on the theoretical approaches to studying gender. These approaches include examining the impact of race/ethnicity in gender roles, socialization of men and women, and the role of gender in major institutions (for example, the family, media, and education). This course is designed for developing critical thinking skills in exploring issues of gender through feminist analysis of structures of privilege and oppression. This course will be useful for those considering careers in the social sciences, social work, teaching, counseling, and nursing.

FT; AA/AS; CSU; UC; C-ID: SOCI 140.

GEOG-Geography

GEOG 101 Physical Geography

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

This course is a spatial study of the Earth's dynamic physical systems and processes. Topics include the natural environment and nature-society interactions with an emphasis on scientific literacy and critical thinking. The course covers classification and analysis of spatial patterns of weather, climate, climate change and the enhanced greenhouse effect, the water cycle, landforms, and the distribution of living organisms. This course also addresses environmental issues in geography and sustainability. The course develops students' spatial analysis skills using maps, Geographic Information Systems (GIS), the Global Positioning System (GPS), and remote sensing imagery. This course is intended for social science majors, sustainability majors, or anyone seeking an understanding of Earth's physical systems and human impacts on the natural environment.

FT; AA/AS; CSU; UC; C-ID: GEOG 110.

GEOG 101L Physical Geography Laboratory

1 hour lab; 1 unit

Grading: Letter Grade Only

Corequisite: Completion of or concurrent enrollment

in: GEOG 101 with a Grade of "C" or better, or equivalent
This course requires practical observations and applications of the geographic grid, atlases, and topographic maps, weather and climate, natural vegetation and soils, and landforms. This includes exercises in remote sensing and computer tools for data analysis, including Google Earth and Geographic Information Systems (GIS). This course is designed for students interested in geography, geology, or Earth science.

FT; AA/AS; CSU; UC; C-ID: GEOG 111.

GEOG 102 Cultural Geography

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course is an introduction to thematic cultural geography. Emphasis is placed on population, race, language, religion, settlement patterns, political organization, economic activities, industry, and the regional distribution of these elements. This course is for students interested in thematic cultural geography or Social Science majors.

FT; AA/AS; CSU; UC; C-ID: GEOG 120.

GEOG 104 World Regional Geography

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course is a survey of the world's major geographical regions, including Europe, North America, Latin America, Africa, Australia, Oceania, and South, East, and Southeast Asia. Emphasis is placed on the historical, environmental, cultural, economic, and technological factors that impact these geographical areas. This course is intended for students majoring in Geography and all students interested in world geography.

FT; AA/AS; CSU; UC; C-ID: GEOG 125.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

GEOG 135 Geography of California

3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course surveys the cultural and environmental landscapes of California with emphasis on cultural-environment interaction and the spatial patterns of natural, socio-political, economic and demographic forces that have shaped the state. Emphasis is placed on historical and current trends in human population, cultural diversity, migration, settlement patterns, and future geographies of climate change and sustainability. Topics include distinctive high-tech industries, iconic urban areas, resource use, transportation routes, and trade with a focus on the profound interconnections between these subjects, on California's diversity, and on the rapid change that is transforming our people and its landscapes. As the most populous state, there will be focus on the ongoing role of its residents in constructing the identity of the 21st Century Californian. This course is designed for students interested in California geography.

FT; AA/AS; CSU; UC.

GEOG 154 Introduction to Urban Geography

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a survey of urban geography. Students apply a multidisciplinary approach to investigate and assess urban issues at various scales. Topics include the origins of the city, globalization, urban planning, social justice, and sustainability. This course is designed for students interested in geography, anthropology, sustainability, public administration, urban planning, architecture, and landscape architecture.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

GEOG 175 Sustainable Places and Practices

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course analyzes sustainability from a geographic perspective using case studies to illustrate sustainable practices from local to global scales. Case studies focus on current sustainable practices in industries such as energy, transportation, and water resources. Using climate and environmental justice frameworks, students evaluate nature-society relationships across different cultures. This course is intended for students interested in environmental issues and sustainability as well as those majoring in Geography or Sustainability.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

GEOG 205 Critical Thinking and Writing in Geography

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This seminar course is designed to develop students' critical thinking, research, and writing skills in preparation for upper-division coursework. The course emphasizes the interconnectedness of people and places using an interdisciplinary lens that bridges the social and natural sciences. The course covers reasoning techniques, geographic methodologies, the analysis of bias, logical fallacies, and cultural humility. Writing assignments focus on critical reasoning, inquiry-driven research, and argumentative writing for specific geography-related outlets. The evaluation of sources based on currency, relevance, credibility, and other measures contribute to the development of geographic research skills. This course is designed for students who want to expand their knowledge on important global issues, gain information literacy, advance their critical thinking skills, and hone their writing skills.

FT; AA/AS; CSU; UC.

GEOG 290 Independent Study

1-3 hours other; 1-3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is for students who wish to conduct additional research, a special project, or learning activities in the field of geography. It is not intended to replace an existing course in the discipline. In this course students have a written contract with their instructor for activities such as: preparing problem analyses, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals.

GEOL-Geology

GEOL 100 Physical Geology

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: Concurrent enrollment in: GEOL 101

This course is an introduction to the science of the earth, the materials of which it is composed, and the processes that are acting upon it. Topics include plate tectonics and Earth's internal structure; the formation and classification of minerals and rocks; geologic structures; and geologic processes of the earth's surface and subsurface. This course is intended for students with a general interest in the geological sciences as well as those majoring in geology, earth science, or geological engineering.

FT; AA/AS; CSU; UC; C-ID: GEOL 100.

GEOL 101 Physical Geology Laboratory

1 hour lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Corequisite: Completion of or concurrent enrollment

in: GEOL 100 with a Grade of "C" or better, or equivalent
This laboratory course is a practical study of mineral and rock identification; landforms; topographic/geologic map interpretation; and geologic structures. It is intended for students with a general interest in the geological sciences as well as those majoring in geology, earth science, or geological engineering.

FT; AA/AS; CSU; UC; C-ID: GEOL 100L.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

GEOL 102 Environmental Geology

3 units

Grading: Letter Grade Only

This course is an introduction to the fundamental principles of environmental geology, focusing on the interaction between Earth processes and human activities. Emphasis is placed on the dynamic relationship between geology, society, and the environment. Topics include natural hazards, land use planning, resource management, and environmental impact assessment. A comprehensive overview of geological processes and their influence on environmental issues, sustainable practices, and the role of geologists in addressing environmental challenges is also explored. This course is intended for students interested in sustainable mining practices and geology.

FT; AA/AS; CSU.

GEOL 104 Earth Science

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

This course is a survey of Earth's major physical systems, including the lithosphere, hydrosphere, atmosphere, and Earth's place in the solar system. Emphasis is placed on a synthesis of pertinent topics in geology, physical geography, oceanography, meteorology, and astronomy. This course is intended for those with a general interest in the Earth sciences.

FT; AA/AS; CSU; UC; C-ID: GEOL 120.

GEOL 111 Dinosaurs, Mass Extinctions, and Earth History

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

GEOL 100 with a Grade of "C" or better, or equivalent or GEOL 104 with a Grade of "C" or better, or equivalent
This course covers the principles of historical geology. Topics include the origin and evolution of the Earth and biosphere, dinosaurs, mass extinctions, fossils, plate tectonics, biological evolution, and geologic dating techniques. This course is intended for students with a general interest in geoscience, as well as those majoring in geology, geography, earth science, or geological engineering.

FT; AA/AS; CSU; UC; C-ID: GEOL 111.

GEOL 120 Earth Science Laboratory

1 hour lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Corequisite: Completion of or concurrent enrollment

in: GEOL 104 with a Grade of "C" or better, or equivalent
This is a laboratory course related to the essentials of Earth Science including the geosphere, atmosphere, hydrosphere and Earth's place in the solar system. This course focuses on the physical and chemical systems of the Earth such as the tectonic cycle, rock cycle, hydrologic cycle, weather, and climate. This course is designed for teacher education students and anyone with a general interest in Earth Science.

FT; AA/AS; CSU; UC; C-ID: GEOL 120L.

GEOL 130 Field Geology of San Diego County

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade Only

Advisory: GEOL 100 with a Grade of "C" or better, or equivalent

GEOL 101 with a Grade of "C" or better, or equivalent

GEOL 104 with a Grade of "C" or better, or equivalent

GEOL 120 with a Grade of "C" or better, or equivalent

OCEA 101 with a Grade of "C" or better, or equivalent

ENGL 101 with a Grade of "C" or better, or equivalent

This course explores the geologic history and plate tectonic evolution of San Diego County. Emphasis is placed on the geology of various regions, including the coastal plain, Peninsular Ranges, and Salton Trough. Through lectures, laboratory activities, and field trips, students will gain a deeper understanding of the processes that have shaped these areas. Topics include plate tectonic theory, regional geology, rocks and minerals, map and compass work, geo-spatial data collection, and geologic report writing. This course is intended for those with an interest in field geology.

FT; AA/AS; CSU; UC.

GEOL 290 Independent Study

1-3 hours other; 1-3 units

Grading: Letter Grade or Pass/No Pass

Advisory: GEOL 100 with a Grade of "C" or better, or equivalent and GEOL 101 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is for students who wish to conduct additional research, a special project, or learning activities in the field of geology. It is not intended to replace an existing course in the discipline. In this course students will have a written contract with their instructor for activities such as preparing problem analysis, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals.

FT; AA/AS; CSU.

GERM-German

GERM 101 First Course in German

80-90 hours lecture; 5 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for GERM 100

This entry level course introduces students to the German language and cultures of the German-speaking world. In this interactive course, students learn and use the language by speaking, listening, reading, and writing at the novice level. They also examine and explore basic German language structures and vocabulary. This course is intended for beginning students who seek basic proficiency in the German language, students who want to take other German courses, and students who want to learn German for their personal enrichment.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

GERM 102 Second Course in German

80-90 hours lecture; 5 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: GERM 101 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for GERM 100

This interactive course is the second in the German language series. Students use increasingly complex German language structures to speak, listen, read, and write in cultural context at the novice-high level. This course is intended for all students interested in gaining proficiency in the German language for academic purposes and/or personal enrichment.

FT; AA/AS; CSU; UC.

GERM 201 Third Course in German

80-90 hours lecture; 5 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: GERM 102 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for GERM 200

This interactive course is the third in the German language series. Students use increasingly complex language structures and vocabulary to develop the functional competence required to communicate beyond survival needs and to discuss and express opinions on abstract topics related to the arts, lifestyle, linguistics, and literature at the intermediate level. This course is intended for students majoring in German and anyone interested in gaining proficiency in the German language for academic purposes and /or personal enrichment.

FT; AA/AS; CSU; UC.

GISG-Geographic Information Systems

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

GISG 104 Geographic Information Science and Spatial Reasoning

40-45 hours lecture/0.5 hours lab; 3 units

Grading: Letter Grade Only

Prerequisite: Successful completion of Intermediate Algebra with a grade of C or better or appropriate placement based on California Title 5 regulations.

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is an introduction to Geographic Information Systems (GIS). Emphasis is placed on the fundamental concepts of GIS. Topics include an overview of cartography, remote sensing, and global positioning systems (GPS) as well as GIS data sources, implementation steps, spatial analysis, and applications in government and business. Students are provided the hands-on experience required to visualize information and identify spatial patterns. This course is designed for all students interested in GIS and for professionals who want to know how to use GIS to better understand and analyze geographic data in their field.

FT; AA/AS; CSU; UC; C-ID: GEOG 155.

GISG 110 Introduction to Mapping and Geographic Information Systems

40-45 hours lecture/0.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course is a practical study of Geographic Information Systems (GIS). Emphasis is placed on the use of ArcGIS software to map, analyze, and model geographic information relevant to fields such as forestry, economics, cartography, city planning, and health. Topics include map making, GIS data creation and management, and map projections and coordinate systems. This course is designed for students majoring in geographic information systems and professionals in the field who want to update their skills.

FT; AA/AS; CSU; C-ID: GEOG 155.

HEAL-Health Education

HEAL 101 Health and Lifestyle**48-54 hours lecture; 3 units****Grading:** Letter Grade Only

This course covers aspects of mental, emotional, social, environmental, spiritual, and physical health. Emphasis is placed on knowledge for developing the attitude, understanding, and practice of a preventive lifestyle for healthy living and optimal wellness. Topics include chronic diseases, physical activity, nutrition, weight management, birth control methods, human sexuality, alcohol, tobacco and illicit chemical use, stress, and factors that contribute to wellness and longevity. Experience in personal health assessment and the changing of health behaviors is stressed. This course is intended for all students seeking a healthy lifestyle as well as those pursuing a teaching credential. It satisfies the State of California teaching credential Health Education requirement.

FT; AA/AS; CSU; UC.**HEAL 103 Introduction to Public Health****48-54 hours lecture; 3 units****Grading:** Letter Grade Only

This course introduces the concepts, terminology, and functions of public health professions and institutions. Various public health professions and agencies will be examined, as well as the role of public health professionals within the overall health care system. Public health applications of epidemiology, disease prevention, and health promotion will be analyzed. Infectious diseases, chronic diseases, and mental illness will be addressed with respect to epidemiology, prevention, and promotion. The social determinants of health and their impact on health disparities will be covered with respect to environmental health, global health, and healthcare policy and management. This course is intended for students in the Health and Wellness Coaching Program and for students interested in Public Health.

FT; AA/AS; CSU; UC.**HEAL 195 Health Education For Teachers****32-36 hours lecture; 2 units****Grading:** Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for Health Education for Teachers 190

This course overviews health-related issues and problems in the kindergarten through 12th grade. Topic areas include behavior modification, stress symptoms and management, physical activity, nutrition, cardiovascular disease, sexually transmitted diseases, illicit substance abuse, alcohol and nicotine use and misuse. This course satisfies the State of California Health Education requirement for the K-12 Teaching Credential. This course is intended for prospective K-12 teachers.

FT; AA/AS; CSU.**HEAL 290 Independent Study****1-3 hours other; 1-3 units****Grading:** Letter Grade or Pass/No Pass

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is for students who wish to conduct additional research, a special project, or learning activities in the field of health education. It is not intended to replace an existing course in the discipline. In this course students will have a written contract with their instructor for activities such as: preparing problem analysis, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals.

FT; AA/AS; CSU.

HEAN-Health Sciences

HEAN 93 Residential Services Specialist I

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for HEAN 265: Residential Services Specialist I

This course is a study of the theories and skills needed by persons involved in residential care for the developmentally disabled. Course content emphasizes the history and trends in service provision in the United States. This includes current principles of normalization and assessment procedures as well as an overview of common developmental disabilities. The interdisciplinary team process and basic counseling techniques are included.

FT; AA/AS.

HEAN 94 Residential Services Specialist II

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for HEAN 265: Residential Services Specialist II

This course is a study of the theories, knowledge and practical skills needed by persons involved in residential care for the developmentally disabled. Course content emphasizes hands-on behavior management techniques, health and developmental needs, program planning and implementation, and approaches to developing social adaptation and other life skills.

FT; AA/AS.

HEOP-Heavy Equipment Operator

HEOP 301A Construction Equipment Operator IA

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course familiarizes apprentices with the heavy equipment operator (HEO) trade. There is an emphasis on safety training relevant to working around equipment and others. Course participation includes opportunities to apply knowledge and develop skills in the operation of track-type equipment including bulldozers backhoes, paving machines and trenching equipment. Basic project procedures are introduced.

FT; AA/AS.

HEOP 301B Construction Equipment Operator IB

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Prerequisite: HEOP 301A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course introduces the apprentice to soils. Basic project procedures are introduced. Course components offer the opportunity to apply knowledge and develop skills in the operation of dump trucks and tractors. Site-preparation, set-up and grade checking skills are also developed.

FT; AA/AS.

HEOP 302A Construction Equipment Operator IIA

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Prerequisite: HEOP 301B with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course provides an overview of earth moving operations including clearing and grubbing, excavation, embankment construction, and backfilling and compaction. Safety training relevant to working with scrapers, bulldozers, front-end loaders and backhoes is emphasized. Students apply knowledge and develop skills in the use of rubber tire type earth moving equipment including scrapers and bulldozers. Project procedures and related math concepts are introduced and reinforced.

FT; AA/AS.

**HEOP 302B Construction Equipment Operator IIB
32-36 hours lecture/1 hour lab; 3 units**

Grading: Letter Grade Only

Prerequisite: HEOP 302A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course builds on the apprentice's basic knowledge of earth moving operations. Students apply knowledge and develop skills in the operation of rubber tire type earth moving equipment including front-end loaders and backhoes. Safety training relevant to working around equipment and other workers is reinforced. Soil characteristics and standards for working with soils and aggregates are introduced. Students learn to follow contract plans and properly grade a construction site. Project procedures and related math concepts are introduced and reinforced.

FT; AA/AS.

**HEOP 303A Construction Equipment Operator IIIA
32-36 hours lecture/1 hour lab; 3 units**

Grading: Letter Grade Only

Prerequisite: HEOP 302B with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course reinforces and further develops basic project procedures. Students apply knowledge and develop skills necessary to leadership role of the finish operator and the operation of telescoping excavators. Advanced safety training relevant to working around equipment and other workers is emphasized. Relevant math concepts and safety procedures are developed.

FT; AA/AS.

**HEOP 303B Construction Equipment Operator IIIB
32-36 hours lecture/1 hour lab; 3 units**

Grading: Letter Grade Only

Prerequisite: HEOP 303A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course reinforces and further develops the student's understanding of basic project procedures. Crusher operations and grade setting and checking skills are developed. Safety training relevant to working around equipment and other workers is emphasized. Relevant math content and topics related to soil such as backfilling, stabilization, erosion, geotextiles, and moisture and density tests are developed.

FT; AA/AS.

HIST-History

**HIST 100 World History I
48-54 hours lecture; 3 units**

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course examines the growth of civilizations and the interrelationships of peoples of Europe, Asia, Africa, and the Americas from the birth of civilization to the eve of the Modern Period. Topics in social, intellectual, economic, and political history are covered. This course is intended for history majors and all students interested in a global historical perspective.

FT; AA/AS; CSU; UC.

**HIST 101 World History II
48-54 hours lecture; 3 units**

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course examines the comparative history of the world's civilizations in Africa, the Americas, Asia, and Europe from the dawn of the Modern Period (1600) to the present. Topics in social, intellectual, economic, and political history are covered. This course is intended for history majors as well as anyone seeking a global historical perspective.

FT; AA/AS; CSU; UC; C-ID: HIST 160.

HIST 105 Introduction to Western Civilization I**48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This course is an historical survey of Western Civilization from the early human communities through the early modern period. The course is designed to introduce students to the ideas, attitudes, and institutions basic to Western Civilization through primary and secondary source material. This course is intended for students majoring in history as well as any student seeking a broad historical perspective.

FT; AA/AS; CSU; UC; C-ID: HIST 170.**HIST 106 Introduction to Western Civilization II****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This course is a historical survey of Western Civilization from early modernism to the present. Students are introduced to the ideas, attitudes, and institutions basic to Western Civilization. Topics include the political structures, social structures, forms of cultural expression, and patterns of change during key periods of Western history. This course is intended for history majors as well as any student seeking a broad historical perspective.

FT; AA/AS; CSU; UC; C-ID: HIST 180.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

HIST 109 History of the United States I**48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This course covers the history of the United States from its colonial origins through the period of Reconstruction. It provides an overview of the diverse peoples who interacted, settled, and influenced the history of the nation and its developing economic, social, and political institutions. Concentrating on class, ethnicity/race, and gender, students are required to analyze a variety of primary and secondary sources, think critically, and write thesis-based essays. This course is intended for all students interested in United States history.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

HIST 110 History of the United States II**48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This course covers the history of the United States from Reconstruction to the present. It provides an overview of the diverse peoples who influenced the history of the nation and its maturing economic, social, and political institutions. Concentrating on class, ethnicity/race, and gender, students are required to analyze a variety of primary and secondary sources, think critically, and write thesis-based essays. This course is intended for all students interested in United States history.

FT; AA/AS; CSU; UC.**HIST 115A History of the Americas I****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This course is a history of the Americas from 1500 through 1870. Emphasis is placed on a comparison of the cultural forms, political institutions, social relations, and economic structures that resulted from the interactions among people of different socially defined cultures, races, ethnicities, and social classes. Topics include the emergence of the independence movements in the Americas; political conflict and civil war in the newly independent countries; and the consolidation of stable nation states by 1870. The United States Constitution and subsequent political institutions in the United States are compared to the other newly independent countries in the Americas. This course is intended for students majoring in History and those interested in the history of the Americas.

FT; AA/AS; CSU; UC.

HIST 115B History of the Americas II

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a history of the Americas from 1865 to the present. Emphasis is placed on the application of classical liberalism during the late nineteenth century, construction of corporatist states during the mid-twentieth century, and the advent of neo-liberalism in the late twentieth century. Topics include the development of the California State Constitution, the expansion of commerce, and international relations among nations in the Western Hemisphere. This course is intended for students majoring in History and those interested in the history of the Americas.

FT; AA/AS; CSU; UC.

HIST 120 Introduction to Asian Civilizations

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course examines the social, cultural, and political evolution of distinct civilizations in East, South, and Southeast Asia from prehistory to the end of the sixteenth century. Emphasis is placed on topics such as the development of indigenous religions/philosophies, the rise and decline of regional kingdoms/dynasties, cultural achievements, and gender roles. This course is intended for all students interested in Asian history and culture.

FT; AA/AS; CSU; UC.

HIST 121 Asian Civilizations in Modern Times

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course examines the evolution of the distinct cultures, thought, and institutions in East, South, and Southeast Asia from the sixteenth century to the present through critical investigations into the impact of modernization on the political, social, economic, and cultural dimensions of these societies. Emphasis is placed on topics such as the first encounters with Western powers, the evolution of Western imperialism, the rise of nationalist movements and independent nation states, and their evolution and progress to the present. This course is intended for all students interested in Asian history and culture.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

HIST 123 U.S. History from the Asian Pacific American Perspective

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course examines the global, national, and local forces that shaped the lives of Asian Pacific Islander Americans (APIA) from the 1850s to the present. Topics include labor, migration, and settlement of diverse APIA groups; national debates over legal, social, and economic inclusion and exclusion; American overseas expansion; racial and gender politics; family formation; and pan-ethnicity. California constitutionalism, state and local governments, and California state and federal government relations are also covered. This course is intended for all students interested in history, ethnic studies, and Asian American studies.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

HIST 290 Independent Study

1-3 hours other; 1-3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is for students who wish to conduct additional research, a special project, or learning activities in the field of history. It is not intended to replace an existing course in the discipline. In this course students have a written contract with their instructor for activities such as: preparing problem analyses, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals.

HUMA-Humanities

HUMA 101 Introduction to the Humanities I**48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This interdisciplinary course is designed for students interested in meeting general education requirements in humanities. The course develops students' understanding and appreciation of humankind's cultural heritage from the Upper Paleolithic (ca. 40,000 BCE) to approximately 1400 CE. A survey is made of the literature, philosophy, music, painting, architecture, and sculpture of both Western and non-Western civilizations.

FT; AA/AS; CSU; UC.**HUMA 102 Introduction to the Humanities II****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This interdisciplinary course is designed for students interested in meeting general education requirements in humanities. The course develops students' understanding and appreciation of humankind's cultural heritage from approximately 1400CE to the present time. A survey is made of the literature, philosophy, music, painting, architecture, and sculpture of both Western and non-Western civilizations.

FT; AA/AS; CSU; UC.**HUMA 103 Introduction to the New Testament****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This course provides a survey of the New Testament period (First Century C.E.). Emphasis is placed on the history and culture of the New Testament period, the methods of critical analysis of Biblical materials, and the content of the New Testament. The impact of the New Testament on western culture is also examined. This course is intended for students of history, literature, anthropology or those with a general interest in biblical studies.

FT; AA/AS; CSU; UC.**HUMA 106 World Religions****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This course is an introduction to the basic elements of the religions of the world, their similarities and differences, and their impact on believers and society. The course includes a study of the historical development, doctrines, rituals, sects, and scriptures of the major religions of the world. Some analysis of ancient religious traditions and tribal religious beliefs and practices may be included. This course is intended for all students interested in humanities and the study of world religions.

FT; AA/AS; CSU; UC.**HUMA 201 Mythology****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This interdisciplinary course introduces students to the major images and themes of the myths of widely separated peoples of the world throughout history. By analyzing various archetypal patterns found in the great civilizations and tribal cultures of the world, students understand both the uniqueness of each culture's world view and the commonality of human mythological conceptions. Literature and the arts are used to demonstrate these cultures' mythic ideas. This course is meant for students in the Humanities and for those interested in the myths of the world.

FT; AA/AS; CSU; UC.**HUMA 202 Mythology: Hero's Journey****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This course is a study of the hero's journey. Emphasis is placed on the internal and external dimensions of the hero's journey as reflected in myths of the world through written and other artistic sources. This course is intended for all students majoring in the Humanities and all students interested in mythology.

FT; AA/AS; CSU.

HUMA 290 Independent Study

1-3 hours other; 1-3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is designed for students who evidence the ability and interest in pursuing special studies in Humanities. It is not intended to replace an existing course in the discipline. In this course students have a written contract with their instructor for activities such as: preparing problem analyses, engaging in primary research and preparing reports.

HUMS-Human Services

HUMS 75 Working with Homeless and At-Risk Populations

32-36 hours lecture; 2 units

Grading: Letter Grade Only

This course prepares students to work with San Diego's homeless and at-risk populations. Topics include an overview of populations and their unique needs. Emphasis is placed on community resources as well as skills needed for front line direct service work. This course is designed for anyone interested in working with homeless and at-risk populations in the areas of human services, social work, alcohol and other drug studies, community health work, gerontology, and psychology.

FT; AA/AS.

HUMS 95 Public Assistance and Benefits Program

16-18 hours lecture; 1 unit

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for HUMS 100

This course is a practical study of current public assistance and benefits programs at the local, state, and federal levels. Emphasis is placed on assistance program structures, eligibility requirements, and scope and duration of benefits. This course is designed for human services students and anyone interested in public assistance and benefits programs.

FT; AA/AS.

HUMS 101 Introduction to Human Aging

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This is an introduction to the field of social gerontology. A multidisciplinary approach is utilized to examine the basic biological, psychological, and social aspects of aging. Emphasis is placed on the special needs and problems impacting the aged population. Historical, social, and cross-cultural issues in aging are examined. This course is intended for students majoring in behavioral sciences and gerontology as well as all students interested in human aging.

FT; AA/AS; CSU.

HUMS 103 Introduction to Community Health Work

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course is an introduction to Community Health Work (CHW). Emphasis is placed on the role of the Community Health Worker as a promoter of health and healthy living within the health care and public health systems. Topics include the fundamentals of public and preventive health in global and community perspective, community health challenges, and the role of education and advocacy in creating and maintaining healthy communities. This course is designed for Human Services students and anyone interested in Community and Public Health.

FT; AA/AS; CSU.

HUMS 105 Family Strengthening Models in Behavioral Health**48-54 hours lecture; 3 units****Grading:** Letter Grade Only

This course is a practical study of the family strengthening model as it applies to behavioral health challenges. Emphasis is placed on the various support programs available to individuals and families, how to access those resources, how to advocate for care, and how to implement care to promote health and well-being. This course is designed for human services students and individuals currently working in the behavioral health field or interested in entry-level positions in the field.

FT; AA/AS; CSU.**HUMS 110 Social Work Fields of Service****48-54 hours lecture; 3 units****Grading:** Letter Grade Only

This course is an introduction to the major fields of social work practice in institutions, public and private agencies, and other community settings. Students examine and differentiate between the predominant settings in which social work is practiced and the role of social work in contemporary society in relation to social injustice, diversity, cross-cultural issues, and economic factors.

FT; AA/AS; CSU.**HUMS 111 Introduction to Chronic Disease****48-54 hours lecture; 3 units****Grading:** Letter Grade Only

Through interactive lectures, discussions of readings and case studies, the course covers the historical, practical, and theoretical aspects of chronic disease. In addition, students learn about chronic disease risk factors and chronic disease management interventions. This course is designed for Human Services students and anyone interested in community health work with chronic disease patients and their families and communities.

FT; AA/AS; CSU.**HUMS 112 Community Service Practicum****48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Advisory: Completion of or concurrent enrollment in:**

HUMS 103 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to

students with previous credit for HUMS 113 or HUMS 116

This course is a practical application of the skills and tools

required to work in the community. Emphasis is placed on

creating needs assessments and focus groups in order to

define an issue to be addressed through a community

organization project. Students may develop and execute an

individual project, take part in a group project, or complete

an internship at a community organization. This course is

designed for human services students and anyone

interested in community organizing.

FT; AA/AS; CSU.**HUMS 114 Introduction to Restorative Justice: Concepts, Theory and Philosophy****48-54 hours lecture; 3 units****Grading:** Letter Grade Only

This course is a theoretical and practical study of restorative practices. Emphasis is placed on preparing students in the practice of Restorative Practices within alternative dispute resolution models. This course is intended for students interested in working with youth and adults in the areas of health, mental health, education, and/or corrections.

FT; AA/AS; CSU.**HUMS 118 Diversity and Cultural Competency****48-54 hours lecture; 3 units****Grading:** Letter Grade Only

This course is a practical study of the concepts of diversity, cultural competency and inclusion as they relate to human services organizations and delivery systems. Emphasis is placed on the identification of institutional racism and the application of the principles of organizational inclusion to facilitate increased organizational effectiveness in serving diverse communities. This course is for students majoring in human services and those working in the field.

FT; AA/AS; CSU.

HUMS 120 Introduction to Social Work**48-54 hours lecture; 3 units****Grading:** Letter Grade Only

This course is an introduction to the field of social work. It covers the historical development of social work as a profession. The core knowledge base, including theoretical perspectives underpinning the profession, are introduced. Emphasis is placed on social work roles, training, methods of intervention, and core social work values and ethics. Students are required to complete 40 hours of volunteer work with an instructor-approved social service setting. This course is intended for social work majors and those interested in the field.

FT; AA/AS; CSU.**HUMS 121 Practicum 1: Core Competencies****48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Advisory:** HUMS 103 with a Grade of "C" or better, or equivalent

This course is a practical application of the skills and tools required to work in the community. Emphasis is placed on in-class practice of Community Health Work (CHW) core competencies particularly regarding communication skills, leadership skills, group facilitation skills, health education skills, advocacy skills, individual and community assessment skills and self-care practices. Students may develop and execute an individual project and take part in a group project. This course is designed for Human Services students and anyone interested in community organizing.

FT; AA/AS; CSU.**HUMS 122 Practicum 2: Field Work****32-36 hours lecture; 2 units****Grading:** Letter Grade Only**Corequisite:** HUMS 270**Advisory:** HUMS 121 with a Grade of "C" or better, or equivalent

This course is designed to mentor students enrolled in a field placement course and provides the opportunity to discuss and analyze their experiences while performing their roles and responsibilities as Community Health Workers (CHWs) in the field. Emphasis is placed on application of knowledge especially in the areas of healthy lifestyles, preventive care, community development, team participation, and health behavior modification.

FT; AA/AS; CSU.**HUMS 125 Health Services Fields of Practice****48-54 hours lecture; 3 units****Grading:** Letter Grade Only

This course is an introduction to and overview of private, public and clinical community health settings and the health services field. Students gain a working knowledge of public and private community health care systems and delivery, with emphasis on services provided by public and social agencies. Issues relating to access to health care, vulnerable populations, ethical issues and policy development are examined. This course helps prepare for beginning positions and/or retraining in public and private agencies and for community volunteer work in health and human service settings.

FT; AA/AS; CSU.**HUMS 270 Work Experience****1-4 hours other; 1-4 units****Grading:** Letter Grade Only

This course provides on-the-job learning experiences for students employed in a Human Services-related job or internship. Students develop workplace competencies, critical thinking skills, and problem solving abilities through the creation and achievement of job-related behavioral learning objectives. This course may be taken up to four times. One unit of credit may be earned for every 54 hours of work experience. A maximum of fourteen credit hours for all work experience subject areas may be earned during one enrollment period. This course is intended for students majoring in Human Services or those interested in the Human Services field.

FT; AA/AS; CSU.**HUMS 276 Field Work in Gerontological Services****16-18 hours lecture/1-3 hours other; 2-4 units****Grading:** Letter Grade Only**Corequisite: Completion of or concurrent enrollment in:** HUMS 101 with a Grade of "C" or better, or equivalent

This supervised field experience course allows students to be of service to older individuals in the community while observing the ways in which organizations deal with the various aspects of aging, policy, advocacy, and diversity. Emphasis is placed on providing students with practical experience in basic helping skills as well as the opportunity to explore varied career choices in the field of gerontological services. This course is designed for human services students specializing in gerontology.

FT; AA/AS; CSU.

HUMS 290 Independent Study

1-3 hours other; 1-3 units

Grading: Pass/No Pass Only

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is for students who wish to conduct additional research, a special project, or learning activities in a specific discipline/subject area and is not intended to replace an existing course in the discipline. In this course students will have a written contract with their instructor for activities such as: preparing problem analysis, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals.

INWT-Information, Network, and Web Technologies

INWT 100 Computing Fundamentals (A+)

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade or Pass/No Pass

This is a project-oriented course that covers the fundamental methodologies of working as an information technology (IT) support professional. Emphasis is placed on hands-on experience deploying, securing, and maintaining computing technology. Topics include operating systems (OSs), security concepts, hardware and networking, virtualization and cloud computing, mobile devices, and operational procedures. This course is intended for students who want to develop essential skills and fundamental knowledge of computing technology. (Preparatory course for CompTIA A+ certification - DoD 8140/8570.01-M)

FT; AA/AS; CSU.

INWT 101 Introduction to Information Security

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course is an introduction to a variety of information security topics. Emphasis is placed on foundational technical concepts as well as the strategic and operational aspects of managing an information security program. Topics include the foundations of information security; legal, ethical and professional issues of security and privacy; threat and vulnerability assessment; security risk management; roles and responsibilities of personnel; introductory cryptography; security considerations in system support; and access controls and maintenance for securing information assets. This course is designed for students interested in information and technology assets and a general awareness of security issues in these systems.

FT; AA/AS; CSU.

INWT 111 Windows Desktop Administration

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

This course is an in-depth study of installation and configuration methodologies of a current Windows desktop operating system. Emphasis is placed on the various methods to deploy, configure, secure, manage, and monitor devices and client applications in an enterprise environment. This course is designed for students who plan to take related Microsoft certification exams.

FT; AA/AS; CSU.

INWT 112 Windows Infrastructure Administration

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade Only

This course is an in-depth study of the administration of Windows Server in a cloud and hybrid environment. Emphasis is placed on the services that span storage, security, networking, and cloud computing capabilities in an enterprise environment. This course is designed for students who plan to take Microsoft Role-based certification exams.

FT; AA/AS; CSU.

INWT 120 Network Fundamentals (Network+)**48-54 hours lecture/1 hour lab; 4 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** INWT 100 with a Grade of "C" or better, or equivalent

This is a project-oriented course that covers the fundamental methodologies used to securely establish, maintain, and troubleshoot networking systems and devices. Emphasis is placed on designing, configuring, managing, and maintaining secure wired and wireless networks. Topics include switching and routing management, firewalls, policies and procedures, hardening, security, and optimization of networking technologies. This course is intended for students who want to develop essential skills and fundamental knowledge of network infrastructure. (Preparatory course for CompTIA Network+ certification - DoD 8140/8570.01-M)

FT; AA/AS; CSU; C-ID: ITIS 150.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

INWT 125 Cloud Architecture (Cloud+)**36-40.5 hours lecture/0.8 hours lab; 3 units****Grading:** Letter Grade or Pass/No Pass

This course is an in-depth study of the skills needed to plan, maintain, and optimize cloud infrastructure services. Emphasis is placed on incorporating and managing multi-cloud technologies as part of broader systems operations. Topics include configurations and deployments, management, maintenance, security, and troubleshooting cloud-based, hybrid, and multi-cloud environments. This course is intended for students who want to develop essential skills and fundamental knowledge of cloud computing technology. (Preparatory course for CompTIA Cloud+ certification - DoD 8140/8570.01-M)

FT; AA/AS; CSU.**INWT 140 Security Fundamentals (Security+)****24-27 hours lecture/1.5 hours lab; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** INWT 100 with a Grade of "C" or better, or equivalent and INWT 120 with a Grade of "C" or better, or equivalent

This is a project-oriented course that covers the fundamental methodologies necessary to perform core security functions. Emphasis is placed on the knowledge and skills required to assess the security posture of an enterprise network environment and recommend and implement appropriate security solutions. Topics include architecture and design, implementation, threats and vulnerabilities, operations and incident response, and risk and compliance. This course is intended for students who want to develop essential skills and fundamental knowledge required of any cybersecurity role. (Preparatory course for CompTIA Security+ certification - DoD 8140/8570.01-M)

FT; AA/AS; CSU; C-ID: ITIS 160.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

INWT 146 Linux Administration (Linux+)**24-27 hours lecture/1.5 hours lab; 3 units****Grading:** Letter Grade or Pass/No Pass**Limitation on Enrollment:** This course is not open to students with previous credit for INWT 145

This is a project-oriented course that covers the fundamental methodologies used to administer Linux systems. Emphasis is placed on the skills needed to successfully configure, manage, and troubleshoot Linux systems. Topics include installation, kernel modules, storage and virtualization, device management, automation, networking and security, command line and scripting, and troubleshooting. This course is intended for students who want to develop essential skills Linux administration. (Preparatory course for CompTIA Linux+ certification)

FT; AA/AS; CSU.

INWT 170 Network Defense & Countermeasures (CySA+)

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

INWT 120 with a Grade of "C" or better, or equivalent
INWT 140 with a Grade of "C" or better, or equivalent
This is a project-oriented course that focuses on the skills needed to proactively defend and continuously improve the security of an organization. Emphasis is placed on the application of behavioral analytics to networks to improve the overall state of security through identifying and combating malware and advanced persistent threats (APTs). Topics include threat and vulnerability management, software and systems security, incident response, security and operations monitoring, and compliance and assessment. This course is intended for students who want to develop essential skills for continuous security monitoring. (Preparatory course for CompTIA CySA+ certification - DoD 8140/8570.01-M)

FT; AA/AS; CSU.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

INWT 201 Ethical Hacking and Penetration Testing

24-27 hours lecture/1.5 hours lab; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: Completion of or concurrent enrollment in:

INWT 120 with a Grade of "C" or better, or equivalent and
INWT 140 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for INWT 200

This is a project-oriented course that focuses on techniques used to test the resiliency of networks against attacks. Emphasis is placed on skills used to plan, scope, exploit, and manage weaknesses in networks. Topics include threat vector identification, network scanning, operating system (OS) detection, vulnerability analysis, system hacking and testing, and report writing. This course is intended for students who want to develop skills in cyber operations. (Preparatory course for CompTIA PenTest+ certification - DoD 8140/8570.01-M)

FT; AA/AS; CSU.

ITAL-Italian

ITAL 101 First Course in Italian

80-90 hours lecture; 5 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for ITAL 100

This is the first course in the Italian language sequence. In this interactive course, students use basic vocabulary, grammatical structures and idiomatic phrases to speak, listen, read, and write in Italian at the novice level. Emphasis is placed on daily life activities as well as Italian history, culture, and geography. This course is intended for all students interested in Italian language and culture.

FT; AA/AS; CSU; UC.

ITAL 102 Second Course in Italian

80-90 hours lecture; 5 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: ITAL 101 with a Grade of "C" or better, or equivalent or two years of high school Italian or equivalent.

Limitation on Enrollment: This course is not open to students with previous credit for ITAL 100

This is the second course in the Italian language sequence. In this interactive course, students use increasingly complex language at the high-novice level. Topics include vocabulary, grammatical structures, and tenses to analyze and express opinions related to a variety of topics, including Italian culture, politics, and the environment. Emphasis is placed on daily life activities as well as Italian history, culture, and geography. This course is intended for all students interested in Italian language and culture.

FT; AA/AS; CSU; UC.

ITAL 201 Third Course in Italian**80-90 hours lecture; 5 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** ITAL 102 with a Grade of "C" or better, or equivalent or three years of high school Italian or equivalent.

This is the third course in the Italian language sequence. In this interactive course, students use intermediate level vocabulary, grammatical structures, and tenses to analyze and to express opinions related to a variety of topics, including Italian culture, politics, and the environment. This course is intended for all students interested in Italian language and culture.

FT; AA/AS; CSU; UC.**ITAL 210 The Grammar of Spoken Italian I****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** ITAL 102 with a Grade of "C" or better, or equivalent

This course is designed to develop and enhance oral communication skills by means of reading, listening, and practicing Italian in various contexts. Topics include everyday life situations, current events, and culture. The course also includes grammar review, reading and discussion of contemporary literature, and written compositions. This course is conducted entirely in Italian and is intended for intermediate-level students interested in increased fluency in the Italian language.

FT; AA/AS; CSU; UC.**ITAL 211 The Grammar of Spoken Italian II****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** ITAL 210 with a Grade of "C" or better, or equivalent

This course is designed to enhance and refine oral comprehension, fluency, and written communication in Italian. Students use advanced vocabulary and idiomatic phrases to express themselves orally and in writing in social, cultural, and academic settings. This course is conducted entirely in Italian and is intended for advanced-level students interested in increased fluency in the Italian language.

FT; AA/AS; CSU; UC.**ITAL 290 Independent Study****1-3 hours other; 1-3 units****Grading:** Letter Grade or Pass/No Pass**Limitation on Enrollment:** Obtain Permission Number from Instructor

For intermediate students who wish to work on special projects.

JOUR-Journalism

LABR-Labor Studies

LABR 100 American Labor Movement

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a study of the United States (U.S.) labor movement in historical perspective. Emphasis is placed on the struggles and philosophy of American workers from the colonial era to the present. Topics include, early American class and race conflicts, the fight against slavery, the intersection of race and gender in the workplace and in American politics, the rise of globalization, and the labor movements of the 21st century. Students are required to analyze a variety of primary and secondary sources, think critically, and write thesis-base essays. This course is designed for students majoring in labor studies or history and all students interested in the American labor movement, including students who are employees and/or union members, and workers who are in leadership roles or are preparing for leadership positions in their workplace or unions.

FT; AA/AS; CSU; UC.

LABR 102 Labor Law

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for LABR 105

Labor Law provides an overview of the legal framework and doctrines governing labor-management relations and the workplace rights of minorities and other individual employees. While "Labor Law" generally refers to the National Labor Relations Act or equivalent public sector laws, this class also covers laws that are sometimes referred to as "employment" laws. They include the various discrimination, retaliation, wage, and safety laws that may be enforced by individuals or unions. These laws offer additional ways to facilitate organizing and contract campaigns, as well as grievance handling. Designed to provide practical legal background for the study and practice of labor relations both in California and in the nation at large. This course focuses on real problems brought to the class by the students, and it aims to stimulate ways of using the law to build your local unions, as well as to support broader efforts such as organizing temporary workers, coalition work with human rights and environmental groups, and political lobbying campaigns. This course is intended for anyone interested in Labor Law including students who are employees and/or union members, and individuals who are in leadership roles or are preparing for leadership positions in the workplace or in unions.

FT; AA/AS; CSU.

LABR 104 Collective Bargaining

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

This course covers major collective bargaining issues including the right to organize, employer/employee rights and the union, the structure of bargaining, bargaining strategies, the organizing component for setting the "climate" for bargaining, negotiating written agreements, public sector bargaining, impasse and arbitration procedures and mock negotiations. This course is intended for workers who are in leadership roles or are preparing for leadership positions in their workplace or unions.

FT; AA/AS; CSU.

LABR 107 Organizing

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for LABR 090

This course is an in-depth study of labor and community organizing. Emphasis is placed on labor and community activism and leadership and organizing theories and techniques. Students analyze various campaigns to illustrate the process of building a culture and capacity for labor and community organizing. This course is designed for labor studies majors, union members, and all members of the community interested in organizing.

FT; AA/AS; CSU.

LABR 108 Labor and Politics

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for LABR 135

This course explores the labor movement's role in politics. The class focuses on local, national and international political issues that impact trade, employment, workers' rights, and the lives of working Americans. It addresses labor's relationship to political action committees, the political parties, its activities in the broader political arena, and its interactions with social movements. Specifically, electoral politics, lobbying, strike strategy, living wage and other social justice campaigns, community organizing, class and identity politics, and responses to corporate globalization are addressed in a variety of contexts. This course involves students in hands-on by inviting them to investigate the political process themselves by getting involved in some capacity. This course is intended for anyone interested in the political strategy and tactics of the labor movement, including students who are employees and/or union members, and workers who are in leadership roles or are preparing for leadership positions in their workplace or unions.

FT; AA/AS; CSU.

LABR 122A Shop Steward, Level I**16-18 hours lecture; 1 unit****Grading:** Letter Grade or Pass/No Pass

This hands-on course covers the rights and responsibilities of shop stewards. It emphasizes development of communication and informal problem-solving skills, investigation and preparation of grievances, and interpreting and explaining the contract for members. The class addresses the current or past concerns and issues that students deal with in their workplace. This course is designed for shop stewards, union members, and employees who want to learn basic workplace rights and problem-solving skills.

FT; AA/AS; CSU.**LABR 122B Shop Steward, Level II****16-18 hours lecture; 1 unit****Grading:** Letter Grade or Pass/No Pass

The course covers skills and knowledge needed for more advanced shop steward responsibilities, such as recruiting new members, providing new member orientations, and educating members on political and workplace issues. It focuses on organizing members to address workplace issues as a group, helping with contract negotiations, and developing the communication and interpersonal skills to deal with difficult individuals. This course is designed for shop stewards, union members, and employees who want to have a leadership role in their union or place of employment.

FT; AA/AS; CSU.**LABR 123A Occupational Safety and Health****24-27 hours lecture; 1.5 units****Grading:** Letter Grade or Pass/No Pass

Advisory: ENGL 047A with a Grade of "C" or better, or equivalent or Milestone R50/W50
ENGL 048 with a Grade of "C" or better, or equivalent or Milestone R50
ENGL 049 with a Grade of "C" or better, or equivalent or Milestone W50

This hands-on course studies the relationship between work and health through a variety of perspectives, beginning with the history of workplace injury, illness and death in the United States. Students learn the Occupational Safety and Health legislation and its implementation at the federal and state level as well as employer and employee rights and responsibilities; the elements of a successful injury and illness prevention program in the workplace; and how to identify and evaluate hazards and control measures. Students apply the topics covered in the course to problem-solving based on workplace experience and case studies. This course is intended for students who are employees and/or union members interested in improving workplace health and safety.

FT; AA/AS; CSU.**LABR 290 Independent Study Labor Studies****1-3 hours other; 1-3 units****Grading:** Pass/No Pass Only

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is for students who wish to conduct additional research, a special project, or learning activities in Labor Studies and is not intended to replace an existing course in the discipline. In this course students will have a written contract with their instructor for activities such as: preparing problem analysis, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals.

LBAS-Liberal Arts and Sciences**LBAS 100 Introduction to Climate Literacy****16-18 hours lecture; 1 unit****Grading:** Letter Grade Only

This course is an introduction to the fundamentals of climate literacy from the scientific and non-scientific lens. Topics include basic mechanics of climate change and how it effects communities and culture. Emphasis is placed on climate change, sustainability, and environment and social justice issues related to climate change. This course is intended for all students interested in climate literacy.

FT; AA/AS; CSU.

LIBS-Library Science

LIBS 101 Information Literacy and Research Skills **16-18 hours lecture; 1 unit**

Grading: Letter Grade or Pass/No Pass

Advisory: Completion of or concurrent enrollment in:

ENGL 101 with a Grade of "C" or better, or equivalent

This course provides an overview of information resources and the skills required to use them effectively. Emphasis is placed on locating, navigating, and evaluating various information resources and the applicability of research skills in both personal life and future academic endeavors. Topics include examining library resources such as print and electronic indexes, books, and periodicals; electronic databases; online and in-person library services; effective internet searching; and developing research strategies. This course is intended for students who wish to acquire research skills for academic, career, or personal use.

FT; AA/AS; CSU; UC.

MACT-Machine Technology

MACT 140 Machine Technology **48-54 hours lecture/1 hour lab; 4 units**

Grading: Letter Grade Only

This course is an introduction to the Machine Technology field. Emphasis is placed on safety, measurements, common formulas, machining applications, drawings, and career opportunities in the field. This course is designed for students planning to major in the occupational field of machine technology.

FT; AA/AS; CSU.

MACT 150 Intro/Computer Numerical Control (CNC)

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade Only

This course is a study of advanced machining techniques including numerically controlled mills and lathes. Emphasis is placed on introducing the student to Computer Numerical Control (CNC) programming using "G" and "M" codes. This course is intended for students majoring in machine technology or for professionals who want to update their skills.

FT; AA/AS; CSU.

MACT 160M Introduction to CAD/CAM **48-54 hours lecture/1 hour lab; 4 units**

Grading: Letter Grade Only

Advisory: Concurrent enrollment in: MACT 161M

This course is an introductory, hands-on study of Computer Aided Design/Computer Aided Manufacturing (CAD/CAM) theory and applications using Mastercam software. Emphasis is placed on generating programs at a basic level for both the Computer Numerical Control (CNC) Mill and CNC Lathe. This course is intended for students majoring in machine technology or for professionals who want to update their skills.

FT; AA/AS; CSU.

MACT 161M Applications of CAD/CAM I **2 hours lab; 2 units**

Grading: Letter Grade Only

Advisory: Completion of or concurrent enrollment in:

MACT 160M with a Grade of "C" or better, or equivalent

This course presents students with intermediate-level Computer Aided Design/Computer Aided Manufacturing CAD/CAM projects dealing with Computer Numerical Control (CNC) program generation for the CNC Mill and CNC Lathe using Mastercam software. Students at this level work under moderate instructor supervision to increase efficiency and quality of work. This course is intended for students majoring in machine technology or for professionals who want to update their skills.

FT; AA/AS; CSU.

MACT 162M Applications of CAD/CAM II**2 hours lab; 2 units****Grading:** Letter Grade Only**Advisory: Completion of or concurrent enrollment in:**

MACT 161M with a Grade of "C" or better, or equivalent
This course presents students with advanced-level Computer Aided Design/Computer Aided Manufacturing (CAD/CAM) exercises dealing with Computer Numerical Control (CNC) program generation for the CNC Mill and CNC Lathe using Mastercam. Students at this level work with minimal instructor supervision to increase efficiency and quality of work. This course is intended for students majoring in machine technology or for professionals who want to update their skills.

FT; AA/AS; CSU.**MACT 170 Introduction to CNC Controlled Vertical Machining****48-54 hours lecture/1 hour lab; 4 units****Grading:** Letter Grade Only**Advisory: Completion of or concurrent enrollment in:**

MACT 150 with a Grade of "C" or better, or equivalent
This course is an introductory, hands-on study of Computer Numerical Control (CNC) Vertical Machining and CNC Lathe theory and techniques. Emphasis is placed on Vertical Machining operations. This course is intended for students majoring in machine technology or for professionals who want to update their skills.

FT; AA/AS; CSU.**MACT 171 Application of CNC Controlled Vertical Machining and CNC Controlled Turning Centers I**
2 hours lab; 2 units**Grading:** Letter Grade Only**Advisory: Completion of or concurrent enrollment in:**

MACT 170 with a Grade of "C" or better, or equivalent
This laboratory course provides exercises in Computer Numerical Control (CNC) Vertical Machining techniques and CNC Turning techniques at an intermediate level. Students at this level work under moderate instructor supervision to increase efficiency and quality of work. This course is intended for students majoring in machine technology or for professionals who want to update their skills.

FT; AA/AS; CSU.**MACT 172 Application of CNC Controlled Vertical Machining and CNC Controlled Turning Centers II****2 hours lab; 2 units****Grading:** Letter Grade Only**Advisory: Completion of or concurrent enrollment in:**

MACT 171 with a Grade of "C" or better, or equivalent
This laboratory course provides exercises in Computer Numerical Control (CNC) Vertical Machining techniques and CNC Turning techniques at an advanced level. Students at this level work under minimal instructor supervision to increase efficiency and quality of work. This course is intended for students majoring in machine technology or for professionals who want to update their skills.

FT; AA/AS; CSU.**MACT 180M Advanced CAD/CAM****48-54 hours lecture/1 hour lab; 4 units****Grading:** Letter Grade Only**Advisory: Completion of or concurrent enrollment in:**

MACT 161M with a Grade of "C" or better, or equivalent
This course is an advanced, hands-on study of Computer Aided Design / Computer Aided Manufacturing (CAD/CAM) theory and applications using Mastercam software. Emphasis is placed on generating programs using advanced modeling surface techniques for both the Computer Numerical Control (CNC) Mill and CNC Lathe at a beginning level under direct instructor supervision. This course is intended for students majoring in machine technology or for professionals who want to update their skills.

FT; AA/AS; CSU.**MACT 181M Application in Advanced CAD/CAM I**
2 hours lab; 2 units**Grading:** Letter Grade Only**Advisory: Completion of or concurrent enrollment in:**

MACT 180M with a Grade of "C" or better, or equivalent
This course is an advanced, hands-on study of Computer Aided Design / Computer Aided Manufacturing (CAD/CAM) theory and applications using Mastercam software. Emphasis is placed on generating programs using advanced modeling techniques for both the Computer Numerical Control (CNC) Mill and CNC Lathe at an intermediate level under moderate instructor supervision. This course is intended for students majoring in machine technology or for professionals who want to update their skills.

FT; AA/AS; CSU.

MACT 182M Application in Advanced CAD/CAM II

2 hours lab; 2 units

Grading: Letter Grade Only

Advisory: Completion of or concurrent enrollment in:

MACT 181M with a Grade of "C" or better, or equivalent
This course is an advanced, hands-on study of Computer Aided Design / Computer Aided Manufacturing (CAD/CAM) theory and applications using Mastercam software. Emphasis is placed on generating programs using advanced surface modeling techniques for both the Computer Numerical Control (CNC) Mill and CNC Lathe at an advanced level under minimal instructor supervision. This course is intended for students majoring in machine technology or for professionals who want to update their skills.

FT; AA/AS; CSU.

MACT 290 Independent Study

1-3 hours other; 1-3 units

Grading: Letter Grade Only

Limitation on Enrollment: Obtain Permission Number from Instructor

For advanced students in machine technology who wish to pursue problems and projects relating to their particular subject area. The student meets with the instructor at specific intervals and is expected to do primary research, analyze problems and submit reports.

FT; AA/AS; CSU.

MARK-Marketing

MARK 100 Principles of Marketing

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course is an overview of the foundations, principles, processes, and goals of marketing. Topics include ethics and social responsibility; global marketing and world trade; corporate marketing strategies; and emerging technologies. Marketing strategies include product planning, development, pricing, distribution, and promotion. This course is intended for students majoring in business or others working in a business environment such as managers and supervisors.

FT; AA/AS; CSU.

MARK 105 Professional Selling

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a study of the principles of sales and selling. Emphasis is placed on the role of human relations in the processes of selling products, services and ideas. Topics include sales techniques, including opening the sale, discovering the needs and wants of the client, addressing objections and closing the sale. Students develop and deliver written and oral sales presentations. This course is designed for students majoring in business or marketing and anyone interested in the sales profession.

FT; AA/AS; CSU.

MARK 130 Advertising Principles

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a study of the principles and practices of advertising. Emphasis is placed on target marketing, consumer behavior, and Integrated Marketing Communications (IMC). This course is designed for students majoring in business or marketing and anyone interested in employment or a career in the field of advertising.

FT; AA/AS; CSU.

MATH-Mathematics

MATH 119 Elementary Statistics see STAT C1000 Introduction to Statistics

MATH 15A Prealgebra Refresher

1 hour lab; 1 unit

Grading: Pass/No Pass Only

This course is a review of prealgebra skills needed for success in subsequent mathematics courses. Students receive instruction and academic support in mathematics concepts, arithmetic operations, algebraic expressions, mathematical properties, and their application to prealgebra-specific mathematical problems. This course is designed for students who need to refresh their pre-algebra skills or need additional support in subsequent mathematics courses.

MATH 15B Elementary Algebra and Geometry Refresher

1 hour lab; 1 unit

Grading: Pass/No Pass Only

This course is a review of elementary algebra and geometry skills needed for success in subsequent mathematics courses. Students receive instruction and academic support in mathematics concepts, arithmetic operations, algebraic expressions, mathematical properties, and their application to elementary algebra- and geometry-specific mathematical problems. This course is designed for students who need to refresh their elementary algebra and geometry skills or need additional support in subsequent mathematics courses.

MATH 15C Intermediate Algebra and Geometry Refresher

1 hour lab; 1 unit

Grading: Pass/No Pass Only

This course is a review of intermediate algebra and geometry skills needed for success in subsequent mathematics courses. Students receive instruction and academic support in mathematics concepts, arithmetic operations, algebraic expressions, mathematical properties, and their application to intermediate algebra- and geometry-specific mathematical problems. This course is designed for students who need to refresh their intermediate algebra and geometry skills or need additional support in subsequent mathematics courses.

MATH 15D Geometry Refresher

1 hour lab; 1 unit

Grading: Pass/No Pass Only

This course is a review of geometry skills needed for success in subsequent mathematics courses. Students receive instruction and academic support in geometric shapes such as triangles, circles, and quadrilaterals; unit conversions; and calculations of perimeter, area, and volume. This course is designed for students who need to refresh their geometry skills or need additional support in subsequent mathematics courses.

FT.

MATH 15E Trigonometry Refresher

1 hour lab; 1 unit

Grading: Pass/No Pass Only

This course is a review of trigonometry skills needed for success in subsequent mathematics courses. Students receive instruction and academic support in angle concepts; trigonometric functions, identities, and equations; vectors; complex numbers; and application problems. This course is designed for students who need to refresh their trigonometry skills or need additional support in subsequent mathematics courses.

FT.

MATH 15F College Algebra Refresher

1 hour lab; 1 unit

Grading: Pass/No Pass Only

This course is a review of college algebra skills needed for success in subsequent mathematics courses. Students receive instruction and academic support in linear, polynomial, exponential, logarithmic, and other functions; non-linear inequalities; matrices; systems of equations; and linear programming. This course is designed for students who need to refresh their college algebra skills or need additional support in subsequent mathematics courses.

FT.

MATH 44 Supervised Tutoring in Math

0 units

Grading: Non-credit Course

This no grade, no credit course is used as an attendance tracking mechanism for students receiving tutoring in the Math Center. The course is designed to prepare students to succeed in the corequisite and subsequent subject matter courses. This course may be taken four times with a different corequisite subject matter course.

MATH 92 Applied Beginning and Intermediate Algebra

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for Math 265S or Math 96. This course emphasizes real world applications in the development of beginning and intermediate algebraic topics. Topics include a review of fractions, decimals and percents, as well as the development of linear, quadratic, rational, radical, exponential and logarithmic functions. This course is designed for those students whose major and transfer institution requires only statistics or math for liberal arts as the transfer level math course for the degree.

FT; AA/AS.

MATH 96 Intermediate Algebra and Geometry

80-90 hours lecture; 5 units

Grading: Letter Grade or Pass/No Pass

Advisory: Enrollment in MATH 96X (MATH 96 and MATH 15B learning community)

Intermediate algebra and geometry is the second of a two-course integrated sequence in algebra and geometry. This course covers systems of equations and inequalities, radical and quadratic equations, quadratic functions and their graphs, complex numbers, nonlinear inequalities, exponential and logarithmic functions, conic sections, sequences and series, and solid geometry. The course also includes application problems involving these topics. This course is intended for students preparing for transfer-level mathematics courses.

FT; AA/AS.

MATH 98 Technical Intermediate Algebra and Geometry

64-72 hours lecture; 4 units

Grading: Letter Grade or Pass/No Pass

This course introduces an applied technology approach to problem solving in Intermediate Algebra and Geometry. Students are expected to apply problem solving techniques to technology-based situations in their technical physics and applied technology courses. Topics include scientific notation, algebra of functions, linear systems of equations, graphing using log and semi-log paper, technology applications of quadratic, exponential and logarithmic functions, right triangle trigonometry, applications in electronics of vectors and phasors. Special emphasis is placed on the use of the graphing calculator and mathematical software packages to solve application problems. This course is intended for students in the Engineering and applied technologies majors.

FT; AA/AS.

MATH 104 Trigonometry

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: Successful completion of Intermediate Algebra with a grade of C or better or appropriate placement M40 or M50 based on California Title 5 regulations; or students with Milestone M30 must enroll in Mathematics 104X (Mathematics 104 and Mathematics 15D learning community).

This course is a study of the numerical, analytical, and geometric properties of right and oblique triangles, of trigonometric and inverse trigonometric functions, and their applications. The course content includes right angle trigonometry, radian measure, circular functions, graphs of circular functions and their inverses, trigonometric identities, equations involving trigonometric and inverse trigonometric functions, an introduction of the complex plane, vectors and their operations, and the trigonometric form of complex numbers. This course is designed as a preparation for calculus and it is intended for the transfer student planning to major in mathematics, engineering, economics, or disciplines included in the physical or life sciences.

FT; AA/AS; CSU.

MATH 107 Introduction to Scientific Programming

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: Successful completion of Intermediate Algebra with a grade of C or better or appropriate placement based on California Title 5 regulations.

Corequisite: MATH 107L

This course is an introduction to mathematical and scientific problem-solving on a computer; focusing on designing algorithms of a high level programming language. Extensive programming is required. Students are expected to plan and write programming projects with documentation. This course is recommended for students transferring to majors in Computer Science and /or mathematics.

FT; AA/AS; CSU; UC.

MATH 107L Introduction to Scientific Programming Lab

1 hour lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Corequisite: MATH 107

Extensive programming is required. Students are expected to plan and write programming projects with documentation. This course is recommended for students transferring to majors in Computer Science and /or mathematics.

FT; AA/AS; CSU.

MATH 109 Explorations in Mathematical Analysis

64-72 hours lecture/1 hour lab; 5 units

Grading: Letter Grade or Pass/No Pass

This is the second of a two-course integrated sequence in algebra, geometry, critical thinking, and practical applications of mathematics. This course focuses on the ability to use mathematical concepts to develop quantitative analysis, logic and computation skills. Students analyze, construct, and dissect algebraic topics from the perspective of implementing the concepts in various real life situations and develop a strong mathematical foundation applicable to problem solving in other academic disciplines. Topics include rules of logic, in particular focusing on implications; mathematical reading; algebra of functions; graphing and analysis of functions; reading, interpreting and analyzing graphs; linear, quadratic, exponential and logarithmic modeling; solving polynomial, rational, exponential and logarithmic equations; applications of mathematics in finance and economics. This course is intended for students planning to major in any of the following fields of study: Fine Arts, Visual and Performing Arts, Humanities, Behavioral Sciences, Social Sciences, Business, Economics, or Life Sciences. This course is not intended for students planning to major in Science, Technology, Engineering, and Mathematics (STEM) fields of study.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

MATH 115 Gateway to Experimental Statistics

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade Only

This course is a second in the study of statistical methods integrated with algebraic tools to prepare students to analyze these processes encountered in society and the workplace. The course covers a review of functions, their geometric properties, counting principles and probability rules, probability distribution functions, sampling, and inferential statistics of one and two variable data sets. Students are expected to implement technology to perform calculations to analyze data and make statistical conclusions. This sequence of courses is intended for students that are not planning on majoring in a science, technology, engineering or mathematics related discipline.

FT; AA/AS; CSU; UC. UC-transferable for students applying to UC for Fall 2016 and later. Please see a Counselor. UC-transferable for students applying to UC for Fall 2016 and later. Please see a Counselor.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

MATH 116 College and Matrix Algebra

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: Successful completion of Intermediate Algebra with a grade of C or better or appropriate placement Milestone M40 or M50 based on California Title 5 regulations. Students with a milestone M30 must enroll in MATH 116X (Mathematics 116 and Mathematics 15C learning community).

This course is designed to strengthen the algebra skills of students seeking Business or Natural Science degrees who are required to take an applied calculus course. Topics in the course include the theory of functions; graphing functions; exponential and logarithmic functions; solving equations involving algebraic, exponential and logarithmic functions; solving systems of linear equations; matrix algebra; modeling; and applications problems. Analytical reading and problem solving skills are required for success in this course.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

MATH 118 Math for the Liberal Arts Student

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: Successful completion of Intermediate Algebra with a grade of C or better or appropriate placement based on California Title 5 regulations.

This course covers a selection of topics from logical reasoning, quantitative literacy, the history of mathematics, statistics, probability, number theory, problem-solving techniques, and applications of mathematics to the liberal arts curriculum. Emphasis is placed on the development of an understanding and life long appreciation for critical thinking and mathematical problem solving. This is a general education mathematics course designed for students majoring in the liberal arts.

FT; AA/AS; CSU.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

MATH 121 Basic Techniques of Applied Calculus I
48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: Successful completion of Intermediate Algebra with a grade of C or better or appropriate placement Milestone M40 or M50 based on California Title 5 regulations. Students with a milestone M30 must enroll in MATH 121X (Mathematics 121 and Mathematics 15F support course).

This course examines the study of calculus using numerical, graphical, and analytical methods to analyze calculus problems encountered in real-world applications in business, natural/life sciences, and social sciences. Topics include limits, derivatives, and integrals of algebraic, exponential, and logarithmic functions, curve sketching, optimization, and areas under and between curves and partial derivatives and optimization of multivariable functions. This is the first course in a sequence of mathematics courses for students intending to major in business, economics, or natural and social sciences.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

MATH 141 Precalculus
80-90 hours lecture; 5 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: Successful completion of Trigonometry with a grade of C or better or appropriate placement Milestone M50 based on California Title 5 regulations. Students with a milestone M30 or M40 must enroll in Mathematics 141X (Mathematics 141 and Mathematics 15B learning community).

This course is a study of numerical, analytical, and graphical properties of functions. The course content includes polynomial, rational, irrational, exponential, logarithmic, and trigonometric functions. Additional topics include: inverse functions, complex numbers, polar coordinates, matrices, conic sections, sequences, series and the binomial theorem. This course is designed as a preparation for calculus and is intended for the transfer student planning to major in mathematics, engineering, economics, or disciplines included in the physical or life sciences.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

MATH 122 Basic Techniques of Calculus II
48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: MATH 121 with a Grade of "C" or better, or equivalent

This second course in a math sequence covers methods of integration, multivariable functions and optimization problems, differential equations, Taylor series development and application, derivatives and integrals of trigonometric functions, and their usage in solving problems encountered in real-world applications in business, life and social sciences and economics. This course is intended for students majoring in business, natural science, social science and economics.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

MATH 148 Innovative Path to STEM Calculus
64-72 hours lecture; 4 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for MATH 141

This course is a study of the numerical, analytical, and geometric properties of right and oblique triangles, of trigonometric and inverse trigonometric functions, and their applications. The course content includes right angle trigonometry, radian measure, circular functions, graphs of circular functions and their inverses, trigonometric identities, equations involving trigonometric and inverse trigonometric functions, vectors and their operations, and polar coordinates. Additional topics include sequences, series, and algebraic skills for STEM calculus. This course is designed as a preparation for calculus and it is intended for transfer students planning to major in mathematics, engineering, economics, or disciplines included in the physical or life sciences.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

MATH 150 Calculus with Analytic Geometry I
80-90 hours lecture; 5 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: MATH 141 with a Grade of "C" or better, or equivalent or Milestone M60. Students with a milestone below M60 must enroll in Mathematics 150X (Mathematics 150 and Mathematics 15E learning community).

This course is an introduction to university-level calculus requiring a strong background in algebra and trigonometry. The topics of study include analytic geometry, limits, differentiation and integration of algebraic and transcendental functions, and applications of derivatives and integrals. Emphasis is placed on calculus applications involving motion, optimization, graphing, and applications in the physical and life sciences. This course incorporates the use of technology. Analytical reading and problem solving are strongly emphasized in this course. This course is intended for students majoring in mathematics, computer science, physics, chemistry, engineering, or economics.

FT; AA/AS; CSU; UC; C-ID: MATH 210.

MATH 150L Calculus I Laboratory
1 hour lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Prerequisite: MATH 141 with a Grade of "C" or better, or equivalent

Corequisite: MATH 150

This course is a workshop, project-oriented course dealing with exploration and development of the calculus topics introduced in Calculus and Analytic Geometry I. This course directly supports the calculus lectures by having hands-on, collaborative assignments where technology is strongly incorporated throughout all the in-class assignments. Students work individually and in small groups on explorations and applications thus extending the material presented in an introductory, university-level course. Topics including geometric, analytic and numeric applications of limits, derivatives and integrals as well as calculus applications found in the physical and life sciences. This course is intended for all students currently enrolled in Calculus with Analytic Geometry I.

FT; AA/AS; CSU; UC.

MATH 151 Calculus with Analytic Geometry II

64-72 hours lecture; 4 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: MATH 150 with a Grade of "C" or better, or equivalent

This is the second course in the calculus and analytic geometry sequence. This course covers more advanced topics in analytic geometry, differentiation and integration of algebraic and transcendental functions, infinite series, Taylor series, and parametric equations. This course also covers a general introduction to the theory and applications of power series, techniques of integration, and functions in polar coordinates, as it serves as a basis for multivariable calculus and differential equations, as well as most upper division courses in mathematics and engineering. This course is intended for the transfer student planning to major in mathematics, computer science, physics, chemistry, engineering or economics.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

MATH 210A Concepts of Elementary School Mathematics I

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: Successful completion of Intermediate Algebra with a grade of C or better or appropriate placement based on California Title 5 regulations.

This course is a study of the mathematical concepts needed for teaching elementary school mathematics with emphasis on number and function. This course promotes an appreciation of the importance of logical thinking and applications of mathematics in problem solving and critical thinking. It studies the basic computational skills, but also requires the understanding and explanation of the basic mathematical concepts and the connections between them. This course includes content relevant to national and state curriculum standards for elementary school mathematics. It is designed for students preparing for credentials in elementary education.

FT; AA/AS; CSU; UC.

MATH 210B Concepts of Elementary School Mathematics II

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: MATH 210A with a Grade of "C" or better, or equivalent

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course is the second course in a one-year sequence in the study of the mathematical concepts needed for teaching elementary school mathematics with emphasis on geometry, transformational geometry, and measurement.

This course also promotes an appreciation of the importance of logical thinking and applications of mathematics in problem solving and critical thinking. It studies the understanding and explanation of the basic mathematical concepts and the connections between them. Analytical reading and problem solving are required for success in this course. It is designed especially for students preparing for credentials in elementary education.

FT; AA/AS; CSU; UC.

MATH 212 Children's Mathematical Thinking

16-18 hours lecture; 1 unit

Grading: Letter Grade Only

Corequisite: Completion of or concurrent enrollment in: MATH 210A with a Grade of "C" or better, or equivalent

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course focuses on children's mathematical thinking and includes an in-depth study of place-value, fractions and how children solve mathematical problems. Students observe children and evaluate the problem strategies that are used. This course is intended for students pursuing a Multiple Subject Credential.

FT; AA/AS; CSU.

MATH 245 Discrete Mathematics

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: MATH 122 with a Grade of "C" or better, or equivalent or MATH 151 with a Grade of "C" or better, or equivalent

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is an introduction to the theory of discrete mathematics and introduces elementary concepts in logic, set theory, and number theory. The topics covered include propositional and predicate logic, methods of proof, set theory, Boolean algebra, number theory, equivalence and order relations, and functions. This forms a basis for upper division courses in mathematics and computer science, and is intended for the transfer student planning to major in these disciplines.

FT; AA/AS; CSU; UC.

MATH 252 Calculus with Analytic Geometry III

64-72 hours lecture; 4 units

Grading: Letter Grade Only

Prerequisite: MATH 151 with a Grade of "C" or better, or equivalent

This course includes the algebra and geometry of 2 and 3 dimensional Euclidean vectors, the algebra and calculus of multivariable functions including composition of functions, limits, continuity, partial differentiation, gradients, higher order derivatives, the chain rule, constrained and unconstrained optimization including Lagrange's theorem, multiple integrals, integrals over paths and surfaces, and integral theorems of vector analysis. This course is intended as a general introduction to the theory and applications of multivariable calculus. This course is essential for most upper division courses in mathematics and forms part of the foundation for engineering and physics. The course is intended for the students interested and/or planning to major in mathematics, physics, astronomy, engineering, computer science, physical chemistry, operational research, or economics.

FT; AA/AS; CSU; UC; C-ID: MATH 230.

MATH 254 Introduction to Linear Algebra

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: MATH 151 with a Grade of "C" or better, or equivalent

This course serves as an introduction to the theory and applications of elementary linear algebra, and is the basis for most upper division courses in mathematics. The topics covered in this course include matrix algebra, Gaussian Elimination, systems of equations, determinants, Euclidean and general vector spaces, linear transformations, orthogonality and inner product spaces, bases of vector spaces, the Change of Basis Theorem, eigenvalues, eigenvectors, the rank and nullity of matrices and introduction to linear transformations. This course is intended for the transfer student planning to major in mathematics, physics, engineering, computer science, operational research, economics, or other sciences.

FT; AA/AS; CSU; UC; C-ID: MATH 250.

MATH 255 Differential Equations

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: MATH 252 with a Grade of "C" or better, or equivalent and MATH 254 with a Grade of "C" or better, or equivalent

This course covers first order and higher order ordinary differential equations and their applications. Topics include linear first order and higher order equations, homogeneous and nonhomogeneous equations with constant or variable coefficients, and systems of ordinary differential equations. Methods used to solve equations include substitution methods, integrating factors, reduction of order, variation of parameters, power series solutions, and Laplace transforms. This course is an introduction to the theory and applications of differential equations and is the basis for many upper division courses in engineering, physics, and mathematics. It is intended for the transfer student planning to major in mathematics, engineering, operational research, physics, or other physical science subjects.

FT; AA/AS; CSU; UC.

MEDA-Medical Assisting

MEDA 115 Pathophysiology

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: MEDA 55 with a Grade of "C" or better, or equivalent or MEDA 110 with a Grade of "C" or better, or equivalent or BIOL 160 with a Grade of "C" or better, or equivalent

The course focuses on disease processes in the human body from a systems approach. Analysis of the most common and significant diseases is included. The signs and symptoms, etiology, diagnosis, and treatment of disease are examined along with the appropriate medical terminology. This course is designed for students in allied health programs, but is also open to those who wish to broaden their medical background or review this information.

FT; AA/AS; CSU.

MFET-Manufacturing Engineering Technology

MFET 101 Introduction to Manufacturing Engineering Technology

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for MFET 101A or MFET 101B or MFET 101C.

This course is designed for students who are interested in the field of Manufacturing Engineering Technology (MFET). The course introduces manufacturing principles, including manufacturing systems, design concepts, process and material selection, computer-integrated manufacturing, quality control and management, global competitiveness and manufacturing costs, safety and environmental concerns. It also provides an overview of the MFET program structure, job perspectives for graduates, salary ranges and various career options in manufacturing.

FT; AA/AS; CSU.

MFET 105 Print Reading and Symbology

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for MFET 105A or MFET 105B, or ENGE 108.

This course is a study of the types of symbols and engineering notations used for mechanical, electrical, electronic, hydraulic and pneumatic diagrams, as well as precision sheet metal drawings and welding specifications. Other topics include scales, precision measurement instruments, geometric dimensioning and tolerancing (GD&T). Actual drawings are used to demonstrate concepts and practice in interpreting the symbols and notations. This course is designed for students who are currently working in a manufacturing plant or pursuing a career in an engineering or technology field.

FT; AA/AS; CSU.

MFET 107D STEM Drone Building

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Corequisite: Completion of or concurrent enrollment

in: MFET 101 with a Grade of "C" or better, or equivalent

This course provides students the opportunity to apply manufacturing engineering technology skills to build a multi-rotor Unmanned Aerial Vehicle (UAV), otherwise known as a drone. Students work together in teams to operate tooling in manufacturing processes. Topics include the fundamental principles of manufacturing a multi-rotor UAV, such as production, stages, quality, lean manufacturing, automation, and manufacturing prints. This course is designed for students interested in manufacturing a multi-rotor UAV and preparing to enter the manufacturing engineering technology field.

FT; AA/AS; CSU.

MFET 107G STEM Guitar Building

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Corequisite: Completion of or concurrent enrollment

in: MFET 101 with a Grade of "C" or better, or equivalent

This course provides students the opportunity to apply manufacturing engineering technology skills to build an electric guitar. Students work together in teams to operate tooling in manufacturing processes. Topics include the fundamental principles of manufacturing a guitar, such as production, stages, quality, lean manufacturing, automation, and manufacturing prints. This course is designed for students interested in guitar building and preparing to enter the manufacturing engineering technology field.

FT; AA/AS; CSU.

MFET 107H STEM High Tech Device Building

8-9 hours lecture/1 hour lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Corequisite: Completion of or concurrent enrollment

in: MFET 101 with a Grade of "C" or better, or equivalent

This course provides students the opportunity to apply manufacturing engineering technology skills to build a "high-tech" electronic product. Students work together in teams to operate tooling in manufacturing processes. Topics include the fundamental principles of manufacturing an electronic product, such as production, stages, quality, lean manufacturing, automation, and manufacturing prints. This course is designed for students interested in manufacturing a "high-tech" electronic product and preparing to enter the manufacturing engineering technology field.

FT; AA/AS; CSU.

MFET 110 Industrial Safety

32-36 hours lecture; 2 units

Grading: Letter Grade or Pass/No Pass

The course is a study of safety fundamentals in an industrial environment and their relationship to accident prevention. It introduces students to the Occupational Safety and Health Administration (OSHA) policies, procedures and standards for industries. Course topics include electrical safety, hazardous materials and conditions, fire protection, tools and machines, welding and cutting, personal protective equipment, hazard communication, construction, ergonomics and industrial hygiene. This course is designed for students who are currently or will be working in construction or general industries. Upon successful course completion, students may receive an OSHA 30-hour Construction or General Industry Outreach Training Completion Card.

FT; AA/AS; CSU.

MFET 114 Problem Solving and Corrective Action**32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade Only**Advisory: Completion of or concurrent enrollment in:**

ENGL 101 with a Grade of "C" or better, or equivalent and MFET 101 with a Grade of "C" or better, or equivalent

This course is designed for students who are interested in learning effective problem-solving methods used in manufacturing industries. Topics include planning for problem solving, developing a competent problem-solving team, defining and describing the problem, proposing interim containment plans, identifying and verifying root causes, identifying and verifying permanent corrections, implementing and validating corrective actions, applying preventive measures, and effectively communicating results. Emphasis is placed on the concept of proactive problem-solving including risk analysis, design for manufacturability, and error-proofing processes.

FT; AA/AS; CSU.**MFET 115 Properties of Materials****40-45 hours lecture/0.5 hours lab; 3 units****Grading:** Letter Grade Only**Advisory:** CHEM 100 with a Grade of "C" or better, or equivalent

This lecture/lab course is a study of the chemical, physical and mechanical properties of industrial materials including metals, ceramics, polymers and composites. The course emphasizes the processes and tests used with different industrial materials during the manufacturing cycles. It also discusses function and structure as they relate to specific design considerations. This course is designed for students who are currently working in a manufacturing plant or pursuing a career in engineering and technology fields.

FT; AA/AS; CSU.**MFET 120 Manufacturing Processes****48-54 hours lecture/1 hour lab; 4 units****Grading:** Letter Grade Only**Corequisite: Completion of or concurrent enrollment****in:** MFET 115 with a Grade of "C" or better, or equivalent**Advisory: Completion of or concurrent enrollment in:**

ENGE 151 with a Grade of "C" or better, or equivalent or ENGE 111 with a Grade of "C" or better, or equivalent

This lecture/lab course provides basic understanding of how raw materials, including metals, polymers, ceramics and composites, are converted to finished products. In this course, students study commonly used and advanced manufacturing processes, understand the pros & cons of different industrial techniques. Students also learn key terms in manufacturing, and identify various types of equipment in common manufacturing processes. This course is designed for students who are pursuing a career in engineering or engineering technology fields, or working in a manufacturing industry.

FT; AA/AS; CSU.**MFET 150 Manufacturing Automation****32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade Only**Prerequisite:** MFET 120 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for MFET 150A or MFET 150B. This lecture/lab course introduces students to the principles of manufacturing automation, process and machine control, programmable logic controllers, robotics, part handling and assembly. Students also learn concepts of group technology, flexible manufacturing systems and their applications in manufacturing industries. Through lectures, hands-on learning experience and demonstrations, students gain knowledge and skills in modern manufacturing that are necessary for seeking rewarding employment opportunities. This course uses a project-based learning approach. It is intended for students, technicians, technologists and engineers who are interested in manufacturing automation.

FT; AA/AS; CSU.

MFET 205 Introduction to Electronic Manufacturing Services**32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade Only**Advisory: Completion of or concurrent enrollment in:**

MFET 150 with a Grade of "C" or better, or equivalent
This course assists students in developing and building fundamental knowledge of the programming, setup, operation, and maintenance of electronic manufacturing systems. Topics include different surface mount components, solder paste and its application, component placement, flux and cleaning, and quality control. Students also acquire hands-on experience on entering equipment programs, operating an entire surface mount technology line, and maintaining the equipment during and after production. The course is designed for students, technicians, technologists, and engineers from industry who are interested in the manufacture of printed circuit board assemblies.

FT; AA/AS; CSU.**MFET 210 Statistical Process Control****32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade Only

Advisory: MATH 119 with a Grade of "C" or better, or equivalent or Successful completion of Intermediate Algebra with a grade of C or better or appropriate placement based on California Title 5 regulations
This lecture/lab course familiarizes students with the applications of statistics in process and quality control function. Students learn to acquire, analyze and interpret data from a process to determine if it is in statistical control and capable of meeting customer's requirements. Statistical techniques include the use of basic graphs and diagrams, control charts, process mean and variability, process capability, sampling and normal distribution. The course also introduces students to the concepts of Six Sigma and design of experiments as part of quality control and improvement. This course is designed for students who are interested in process control, quality improvement and industrial management.

FT; AA/AS; CSU.**MFET 215 Automated PCBA Inspection and Testing****48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Advisory: Completion of or concurrent enrollment in:**

MFET 114 with a Grade of "C" or better, or equivalent or MFET 150 with a Grade of "C" or better, or equivalent
This course explores the study of automated electronic inspection and testing. Topics include the history of automated quality assurance and how it affects the world, computer integrated manufacturing, machine vision and other sensors used in industrial applications, and the role of robotics and software used for automated electronic inspection and testing. Emphasis is placed on implementing the inspection and testing of printed circuit board assemblies and box builds using an in-house automated quality assurance execution system to continually improve product quality and process efficiency. This course is intended for manufacturing technology students who have selected the Electronics Option and students interested in automated electronic inspection and testing, and automated quality assurance.

FT; AA/AS; CSU.**MFET 215L Automated PCBA Inspection and Testing Laboratory****2 hours lab; 2 units****Grading:** Letter Grade or Pass/No Pass

Advisory: MFET 114 with a Grade of "C" or better, or equivalent and MFET 205 with a Grade of "C" or better, or equivalent

Advisory: Completion of or concurrent enrollment in:

MFET 215 with a Grade of "C" or better, or equivalent
This course explores the study of electronic assembly rework, modification, and repair. Topics include terms and definitions associated with the rework, modification, and repair, the levels of conformance and compliance with the IPC-7711/7721 standards, setting-up rework and repair stations, and utilizing tools and materials to effectively follow the rework and repair processes. Emphasis is placed on reworking and repairing or modifying printed circuit board assemblies identified using automated inspection and testing, inputting and analyzing data to make improvements to the automated electronic manufacturing processes. This course is intended for manufacturing technology students who have selected the Electronics Option and students interested in electronic assembly rework, modification, and repair.

FT; AA/AS; CSU.

MFET 220 Programmable Logic Controllers**32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade Only

This course assists students in developing and building fundamental knowledge of the operation, construction, interfacing and programming of programmable logic controllers (PLCs). Students learn different hardware components, input and output devices associating with PLCs, and PLC applications in various manufacturing systems. Students also acquire hands-on experience on constructing, operating, configuring and programming PLCs. The course is designed for students, technicians, technologists and engineers from industry who are interested in automation and the integration of PLCs in manufacturing.

FT; AA/AS; CSU.**MFET 225 Introduction to Photovoltaic Manufacturing and Applications****48-54 hours lecture/1 hour lab; 4 units****Grading:** Letter Grade Only

Advisory: ELCT 111 with a Grade of "C" or better, or equivalent or ELDT 124 with a Grade of "C" or better, or equivalent

This lecture/lab course is a study of solar photovoltaic (PV) cell manufacturing, the types of cells and the advantages and applications of solar PV cells. Emphasis is placed on the underlying physical and chemical characteristics of solar cells, the types of manufactured cells and modules, their fabrication processes and applications. This course is designed for students pursuing a career in engineering and technology fields and anyone interested in understanding solar photovoltaics and their applications.

FT; AA/AS; CSU.**MFET 230 Lean Manufacturing****32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade Only

Advisory: MFET 150 with a Grade of "C" or better, or equivalent and MFET 210 with a Grade of "C" or better, or equivalent

This overview course focuses on the terminology, tools, techniques, concepts and principles of Lean Manufacturing. Students are introduced to different Lean tools including value stream mapping, 5-S process, seven deadly wastes, standardized work flow, error proofing, setup reduction, integrated reliability, and production and inventory control. This course uses a project-based approach; provides students with theories, guided discussions, hands-on exercises and industrial case-studies. Course is open to all students who are planning to join industry or currently working in a company instituting Lean Manufacturing.

FT; AA/AS; CSU.**MFET 240 Six Sigma and Lean Implementation****32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade Only

Advisory: MFET 210 with a Grade of "C" or better, or equivalent and MFET 230 with a Grade of "C" or better, or equivalent

This lecture/lab course concentrates on six sigma concepts and implementation of lean in a business organization. Students learn the principles of six sigma and the utilization of six sigma tools in project application. The course also covers DMAIC (Define, Measure, Analyze, Improve, Control) problem solving methodology, team building and project management skills. This course is designed for those who are interested in participating in and/or implementing lean/six sigma at their organization.

FT; AA/AS; CSU.**MFET 242 Industrial Maintenance & Mechatronics****32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade Only

Advisory: Completion of or concurrent enrollment in:

MFET 150 with a Grade of "C" or better, or equivalent

This course explores the study of classic industrial maintenance and mechatronics. Topics include hydraulics, pneumatics, mechanical drives, and machining with current electronics and electrical systems used in manufacturing today. Emphasis is placed on maintenance analysis and diagnosis; troubleshooting electrical and electronic applications; installing and servicing hydraulics and pneumatics systems; assembly equipment; Heating, Ventilating, and Air Conditioning (HVAC); and building systems. This course is intended for manufacturing technology students who aim to develop competencies in maintenance and/or advanced lean methodologies, and students interested in learning more about improving manufacturing operations.

FT; AA/AS; CSU.

MFET 250 Manufacturing Capstone Course

16-18 hours lecture/3 hours lab; 4 units

Grading: Letter Grade Only

Prerequisite: MFET 101 with a Grade of "C" or better, or equivalent and MFET 105 with a Grade of "C" or better, or equivalent and MFET 115 with a Grade of "C" or better, or equivalent

Corequisite: Completion of or concurrent enrollment in: MFET 110 with a Grade of "C" or better, or equivalent and MFET 230 with a Grade of "C" or better, or equivalent
This is a capstone course for the Manufacturing Engineering Technology program. It provides students the opportunity to apply a combination of skills and knowledge to solve an industrial manufacturing problem. Students work together in groups to tackle an integrated, technical problem selected by industry and approved by program faculty. Topics include, but are not limited to, manufacturing materials and processes, design, quality, lean manufacturing and automation. This course is intended solely for students enrolled in the last semester of the Manufacturing Engineering Technology program, and is a major requirement.

FT; AA/AS; CSU.

MFET 252 Total Productive Maintenance

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Advisory: Completion of or concurrent enrollment in: MFET 150 with a Grade of "C" or better, or equivalent and MFET 242 with a Grade of "C" or better, or equivalent
This course explores the study of total productive maintenance (TPM), a lean manufacturing methodology. Topics include the development of maintenance systems, the pillars of TPM, Autonomous Maintenance (AM), analyzing and categorizing failure data, and deciding on a maintenance strategy. Emphasis is placed on proactive and preventative maintenance to maximize the lifespan and productivity of equipment. The aims of TPM are high: no breakdowns, no small stops or slow running, no defects, and no accidents. This course is intended for manufacturing technology students who aim to develop competencies in maintenance and/or advanced lean methodologies, and students interested in learning more about improving manufacturing operations.

MFET 270 Work Experience

1-4 hours other; 1-4 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: Obtain Permission Number-Work Exp. Coordinator

A program of on-the-job learning experiences for students employed in a job related to their major. One unit of credit may be earned for every 54 hours of work experience. A maximum of fourteen credit hours for all work experience subject areas may be earned during one enrollment period.

MUSC-Music Commercial

MUSC 104 Composition Technology

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for MUSC 050
This course is a practical study of the fundamentals of technology used for music composition and notation required to work in a professional recording studio or commercial music environment. Emphasis is placed on rudimentary Musical Instrument Digital Interface (MIDI) sequencing, notation of music scores, and basic keyboarding / MIDI controller skills. Topics include meter, pitch, chords, and scales. This course is intended for students majoring in music production technology.

FT; AA/AS; CSU.

MUSC 118 Music Entrepreneurship

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

This course is designed to provide students theoretical and practical applications to build a successful career as a self-employed music artist. Topics range from theoretical, such as goal-setting and building creative discipline, to practical, such as revenue streams, financial planning, and self-ownership. Emphasis is placed on a broad but strong understanding of what is necessary to build a successful life of self-employment in the music industry as well as an education on the specific resources that exist to do so. This course is designed for students interested in music.

FT; AA/AS; CSU.

MUSC 160 Introduction to Electro-Acoustic Music**32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for MUSC 084

This course explores electronic music composition in the digital medium with a primary focus on the creation of works of musical art. This course provides students with the fundamental skills required to operate a digital audio workstation (DAW) for recording, editing, and mixing of audio and Musical Instrument Digital Interface (MIDI) data. Topics include digital audio, MIDI, signal flow in the professional studio, elastic audio and quantization, automation, signal processing, basic mixing and editing techniques, and audio file formats for delivery. This course is intended for students majoring in music production technology and anyone interested in entry-level employment in the music industry. Students may take industry-based certification exams at the conclusion of the semester. This course is an industry-partner training course.

FT; AA/AS; CSU.**MUSC 162 Introduction to Recording and Sound Reinforcement****32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for MUSC 80 or MUSI 190 This course introduces the theory and practice of sound recording and live sound reinforcement. Students learn the technical aspects of live sound, the aesthetic aspects of mixing live sound, and microphone placement and mixing strategies to accomplish these goals. This course is intended for students majoring in music production technology and anyone interested in entry-level employment in the music industry.

FT; AA/AS; CSU.**MUSC 170A Electro-Acoustic Ensemble I****1 hour lab; 1 unit****Grading:** Letter Grade Only**Limitation on Enrollment:** This course is not open to students with previous credit for MUSC 070

This course is the first in a series of electro-acoustic ensemble for the study and performance of selected works that involve music technology and commercial music based instruments. Students practice and perform a wide variety of works from different styles/genres as well as original works. Topics include a history of ensemble as well as tone production and basic music theory in performance practice. Emphasis is placed on developing fundamental skills in incorporating and operating music technology along with traditional commercial music instruments intended for live and studio based performance. Attendance at rehearsals and performance is required. This course is intended for students majoring in music production technology or for anyone interested in developing techniques for commercial music performance.

FT; AA/AS; CSU; UC.**MUSC 170B Electro-Acoustic Ensemble II****1 hour lab; 1 unit****Grading:** Letter Grade Only**Advisory:** MUSC 170A with a Grade of "C" or better, or equivalent

This course is the second in a series of electro-acoustic ensemble for the study and performance of selected works that involve music technology and commercial music based instruments. Students practice and perform a wide variety of works from different styles/genres as well as original works. Topics include composing, writing, and arranging as well as improvisation as an accompanist. Emphasis is placed on developing beginning skills in incorporating and operating music technology along with traditional commercial music instruments intended for live and studio based performance. Attendance at rehearsals and performance is required. This course is intended for students majoring in music production technology or for anyone interested in developing techniques for commercial music performance.

FT; AA/AS; CSU; UC.

MUSC 170C Electro-Acoustic Ensemble III

1 hour lab; 1 unit

Grading: Letter Grade Only

Advisory: MUSC 170B with a Grade of "C" or better, or equivalent

This course is the third in a series of electro-acoustic ensemble for the study and performance of selected works that involve music technology and commercial music based instruments. Students practice and perform a wide variety of works from different styles/genres as well as original works. Topics include improvisation as a soloist as well stage presence and live mixing. Emphasis is placed on developing intermediate skills in incorporating and operating music technology along with traditional commercial music instruments intended for live and studio based performance. Attendance at rehearsals and performance is required. This course is intended for students majoring in music production technology or for anyone interested in developing techniques for commercial music performance.

FT; AA/AS; CSU; UC.

MUSC 170D Electro-Acoustic Ensemble IV

1 hour lab; 1 unit

Grading: Letter Grade Only

Advisory: MUSC 170C with a Grade of "C" or better, or equivalent

This course is the fourth in a series of electro-acoustic ensemble for the study and performance of selected works that involve music technology and commercial music based instruments. Students practice and perform a wide variety of works from different styles/genres as well as original works. Topics include studio session musician skills, leading and conducting an ensemble, troubleshooting live performance technology issues as well as recording a live mix. Emphasis is placed on developing advanced skills in incorporating and operating music technology along with traditional commercial music instruments intended for live and studio based performance. Attendance at rehearsals and performance is required. This course is intended for students majoring in music production technology or for anyone interested in developing techniques for commercial music performance.

FT; AA/AS; CSU; UC.

MUSC 220A Music Marketing and Promotion I

8-9 hours lecture/1.5 hours lab; 2 units

Grading: Letter Grade Only

This is the first in a series of music marketing and promotion courses. Students are introduced to concepts of budgeting, project management, talent development, and marketing in the music industry as they assist with the production and promotion of original music recordings and live music performances. This course is intended for students majoring in music production technology and anyone interested in entry-level employment in the music industry.

FT; AA/AS; CSU.

MUSC 220B Music Marketing and Promotion II

8-9 hours lecture/1.5 hours lab; 2 units

Grading: Letter Grade Only

Advisory: MUSC 220A with a Grade of "C" or better, or equivalent

This is the second in a series of music marketing and promotion courses. Students coordinate the production and promotion of original music recordings and live music performances, gaining hands-on practice with talent scouting, event budgeting, and press release writing. This course is designed for students majoring in Commercial Music and anyone interested in entry-level employment in the music industry.

FT; AA/AS; CSU.

MUSC 220C Music Marketing and Promotion III

8-9 hours lecture/1.5 hours lab; 2 units

Grading: Letter Grade Only

Advisory: MUSC 220B with a Grade of "C" or better, or equivalent

This is the third in a series of music marketing and promotion courses. Students manage a team to create original music recordings and/or produce live music events. Through this process, students learn to create budgets, develop project timelines, and implement event marketing plans. This course is designed for students majoring in Commercial Music and anyone interested in entry-level employment in the music industry.

FT; AA/AS; CSU.

MUSC 220D Music Marketing and Promotion IV**8-9 hours lecture/1.5 hours lab; 2 units****Grading:** Letter Grade Only**Advisory:** MUSC 220C with a Grade of "C" or better, or equivalent

This is the fourth in a series of music marketing and promotion courses. Students direct a team through the production and promotion of original music recordings and live music performances, learning how to evaluate budgets, timelines, and talent. In addition, they gain experience partnering with recording studios and not-for-profit organizations. This course is designed for students majoring in Commercial Music and anyone interested in entry-level employment in the music industry.

FT; AA/AS; CSU.**MUSC 252 Sound Design and Digital Audio Post Production****32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade Only**Advisory:** MUSC 160 with a Grade of "C" or better, or equivalent and MUSC 162 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for RTVC 152 or DMPR 152 or MUSC 152

This is an advanced course in audio post-production and synchronization with visual image for video, multimedia, and film. Students use a Digital Audio Workstation (DAW) to produce original audio tracks. This course is intended for students majoring in Commercial Music.

FT; AA/AS; CSU.**MUSC 260 Electro-Acoustic Music Composition****32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade Only**Advisory:** MUSC 160 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for MUSC 095

This course explores electronic music composition in the digital medium. Topics include sound sampling, musique concrete, multiple types of synthesis, physics of sound, and digital audio theory. Emphasis is on application of techniques and theoretical knowledge to produce original musical compositions. Diversity of style and approach is encouraged. This course is designed for students majoring in music production technology and anyone interested in entry-level employment in the music industry.

FT; AA/AS; CSU; UC.**MUSC 262 Intermediate Recording and Sound Reinforcement****32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade Only**Advisory:** MUSC 160 with a Grade of "C" or better, or equivalent and MUSC 162 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for MUSC 82

An intermediate-level exploration of the theory and practice of sound recording and live sound reinforcement. Students learn the technical aspects of live sound, the aesthetic aspects of mixing live sound, and microphone placement and mixing strategies to accomplish these goals. This course is intended for students majoring in music production technology and anyone interested in entry-level employment in the music industry.

FT; AA/AS; CSU.**MUSC 290 Independent Study****1-3 hours other; 1-3 units****Grading:** Pass/No Pass Only**Limitation on Enrollment:** Obtain Permission Number from Instructor

This course offers students the opportunity to pursue special interests in music. Projects may include extended research on music subjects addressed in scheduled music classes, as well as topics outside the music curriculum. In this course students have a written contract with their instructor for activities, such as written works, compositions, presentations, performances, or original projects. An Independent Study has to be arranged with, approved, and monitored by a member of the music faculty.

MUSI-Music

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

MUSI 044 Supervised Tutoring in Music
0 units

Grading: Non-credit Course

This course is designed to prepare the student to succeed in the corequisite and subsequent subject matter courses. This course may be taken four times with a different corequisite subject matter course.

MUSI 100 Introduction to Music
48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

This course is designed to develop aural and analytical musical skills. Emphasis is placed on conceptual, contextual, and stylistic elements of music from various periods and cultures, and encompassing a range of genres and styles. This course is designed to support students in all majors who are interested in satisfying the general education requirements for Arts and Humanities.

FT; AA/AS; CSU; UC; C-ID: MUS 100.

MUSI 103 History of Rock Music
48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

This course surveys the origins and development of Rock music from the 1940s to the present including its roots and related genres. The course focuses on the evolution of different styles within the Rock genre as well as the social, political, economic, and cultural contexts of Rock music. This course is intended for all students interested in the history of Rock music.

FT; AA/AS; CSU; UC.

MUSI 108 The Business of Music
48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: Completion of or concurrent enrollment in:

ENGL 101 with a Grade of "C" or better, or equivalent

This course is a comprehensive survey of the music business. Course content emphasizes the various areas of the music business, the functions of each area and the relationships between the areas. Topics include songwriting; music publishing; copyrighting; music licensing; unions and guilds; agents and managers; artists and management; the record industry; artists' recording contracts; studios and engineers; and music in radio, television and advertising. This course is intended for students majoring in music or anyone interested in the music industry.

FT; AA/AS; CSU.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

MUSI 109 World Music
48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

This music survey course explores the music cultures of South Asia; East Asia; Southeast Asia; the Middle East; Africa; the Americas, Europe, and the Pacific. Musical practices and perspectives from several music cultures are studied with an emphasis on understanding and appreciation from non-ethnocentric viewpoints. Listening perception is developed through lectures and multimedia presentations. This course is intended for students majoring in music or anyone interested in music and culture.

FT; AA/AS; CSU; UC.

MUSI 110 Music for Elementary School Teachers
40-45 hours lecture/0.5 hours lab; 3 units

Grading: Letter Grade Only

This course prepares students to teach music as part of the curriculum in the elementary school classroom, the preschool, or day-care program. Students develop an understanding of musical concepts primarily by singing and playing an instrument, and practice using lesson plans for teaching these concepts to children.

FT; AA/AS; CSU.

MUSI 111 Jazz History
48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

This course is a survey of the history and development of Jazz in the United States. Emphasis is placed on the origins of Jazz, the variety of styles that developed throughout the twentieth and twenty-first centuries, current trends, and outstanding performers and composers. This course is intended for all students interested in the history of Jazz.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

MUSI 111 Jazz History
48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

This course is a survey of the history and development of Jazz in the United States. Emphasis is placed on the origins of Jazz, the variety of styles that developed throughout the twentieth and twenty-first centuries, current trends, and outstanding performers and composers. This course is intended for all students interested in the history of Jazz.

FT; AA/AS; CSU; UC.

MUSI 124A Piano Class I

1 hour lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for MUSI 115A or MUSI 116A.

This course explores the process of making music at the piano. The focus of the course is to provide a musical experience for students to continue a life-long pursuit of self-expression. This course also emphasizes developing fundamental techniques needed to play the piano. The concept of music theory is also included. Students learn piano techniques and applicable music theory by playing music on the piano through simple solo and ensemble pieces. This course is designed for all students interested in learning to play the piano.

FT; AA/AS; CSU; UC; C-ID: MUS 170.

MUSI 124B Piano Class II

1 hour lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Prerequisite: MUSI 124A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for MUSI 115B or MUSI 116B. This course further explores the process of making music at the piano as the second semester of piano studies. Students learn piano techniques and applicable music theory by playing music on the piano with additional sight-reading and intermediate piano solo and ensemble music. The course is designed for all students who are interested in further expanding piano studies.

FT; AA/AS; CSU; UC; C-ID: MUS 171.

MUSI 134A Voice Class I

1 hour lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for MUSI 120A or MUSI 120. This course is an opportunity to explore your singing voice. To become a more expressive singer, a variety of songs are used for developing the range, volume, and tone color of your solo voice. A goal of the course is to provide a musical experience that inspires students to continue singing as a source of self-expression and growth.

FT; AA/AS; CSU; UC.

MUSI 137 Singing Plus

24-27 hours lecture/0.5 hours lab; 2 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for MUSI 130A. This course is an introduction to singing in ensembles. Emphasis is placed on developing basic vocal, aural and music-reading skills. Students rehearse and perform solo as well as in concert with others. This course is intended for both music and non-music majors.

FT; AA/AS; CSU; UC.

MUSI 148A Music Theory I

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: MUSI 150A with a Grade of "C" or better, or equivalent

Advisory: Concurrent enrollment in: MUSI 268A

Limitation on Enrollment: This course is not open to students with previous credit for MUSI 158A.

This course is a study of music, including structural, historical and stylistic analysis of music of Western classical music, World music, jazz, and popular music. The class will discuss the cultural, social and technical significance of the musical literature, examining rhythms, intervals, chords, cadences, melodies, phrases, notes and scales. Students will develop four-part writing skills using diatonic triads and seventh chords, and learn how to read and compose with figured bass, lead sheet chord symbols and standard musical notation. The history of notation and practice will be discussed as students develop skills in notation software and handwritten notation. This course is intended for music majors.

FT; AA/AS; CSU; UC; C-ID: MUS 120.

MUSI 148B Music Theory II

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: MUSI 148A with a Grade of "C" or better, or equivalent

Advisory: Concurrent enrollment in: MUSI 268B

Limitation on Enrollment: This course is not open to students with previous credit for MUSI 258B.

This course series continues in its study of diatonic music including the structural, historical and stylistic analysis of music of Western classical music, World music, jazz, and popular music. The class will discuss the cultural, social and technical significance of the musical literature, examining how melody, structure, harmony, and chord progressions, have an impact on the listener. The course will include analysis of Baroque and Classical pieces of music and an examination of large-scale events and form. The course will also include identifying, creating, and composing with the modes of the major scale. Students will continue to develop four-part writing skills using triads and seventh chords, non-harmonic tones, suspensions, retardations, figured bass, 6/4 chords, modulations and tonicizations. The history of notation and practice will be discussed as students develop skills in notation software and handwritten notation. This course is intended for music majors.

FT; AA/AS; CSU; UC; C-ID: MUS 130.

MUSI 150A Basic Musicianship

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

This course is the study and practice of musical literacy. Emphasis is placed on the development of perceptions in sight and sound as related to the symbols of rhythmic, melodic, and harmonic notation. Topics include skill development in notating notes, intervals, scales, key signatures, rhythms, and chords. Students also identify terms used to indicate navigation, tempo, and dynamics. This course is designed for music majors and musicians.

FT; AA/AS; CSU; UC; C-ID: MUS 110.

MUSI 190 Introduction to Music Technology

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: Completion of or concurrent enrollment in: MUSI 150A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for MUSC 80 or MUSC 162. This course is a study of music/audio as it applies to computer music/audio applications, sequencing Musical Instrument Digital Interface (MIDI), hard disk recording, and recording. Students design and create music/audio projects using microphones, recorders, mixing boards, synthesizers, and samplers. This course is designed for all students interested in music and audio technology.

FT; AA/AS; CSU.

MUSI 202 Computer Music

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: MUSI 190 with a Grade of "C" or better, or equivalent

This course is a study of the application of contemporary digital technology to the practice of music / audio applications. Emphasis in this course is on acquisition of computer skills to access and manipulate musical data via MIDI (musical instrument digital interface), hard disk audio files and other digital formats. These skills allow students to digitally sample sounds, control synthesizers and samplers, access and alter audio files, sequence music, transcribe and print musical scores and conceive new techniques for computer music. This course is designed for students who are interested in continuing their education in the recording studio.

FT; AA/AS; CSU.

MUSI 204 Audio System Design and Maintenance

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Prerequisite: MUSI 190 with a Grade of "C" or better, or equivalent

In this course students learn to design, operate, and maintain audio systems. Lessons and assignments target commercial and residential audio systems and their design, function, installation, operation, and maintenance. This course is intended for students majoring in Audio Production and Engineering or anyone interested in the operation and maintenance of audio systems.

FT; AA/AS; CSU.

MUSI 268A Ear Training I

1 hour lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Prerequisite: MUSI 150A with a Grade of "C" or better, or equivalent

Advisory: MUSI 148A with a Grade of "C" or better, or equivalent

The course is designed to facilitate perception, performance, and identification of melodic, harmonic, and rhythmic patterns in music. This course consists of sight singing scales, melodies & rhythms, notating melodies, harmonies & rhythms, and identifying chords & intervals. The emphasis is on the development of basic skills in sight singing and dictation: the sight singing and notating of short diatonic melodies containing seconds, thirds, fourths, fifths & octaves, the identification of major, minor, augmented & diminished triads in root position, harmonic dictation of primary triads in major keys, and rhythmic dictation with duple, triple & quadruple subdivisions of the beat. This course is designed for the music majors and students interested in enhancing technical knowledge and skills in music.

FT; AA/AS; CSU; UC; C-ID: MUS 125.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

MUSI 268B Ear Training II

1 hour lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Prerequisite: MUSI 268A with a Grade of "C" or better, or equivalent

This course is the second of a four-course sequence in ear training. Emphasis is placed on continued development of skill in sight singing major and minor melodies which contain seconds, thirds, fourths, fifths, sixths, sevenths, octaves and the tritone; melodic dictation containing triadic arpeggiations; harmonic identification of all diatonic triads in root position and inversions and in major and minor keys; rhythmic dictation with duple, triple, and quadruple subdivisions of the beat in simple and compound meters; notation of two-part and four-part dictation; and identification of errors in melodic phrases. This course is designed for the student pursuing music as a major or for the student interested in enhancing technical knowledge and skills.

FT; AA/AS; CSU; UC; C-ID: MUS 135.

MUSI 290 Independent Study

1-3 hours other; 1-3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: Obtain Permission Number from Instructor

This course affords students the opportunity to pursue special interests in music. Projects may include extended research on music subjects addressed in scheduled music classes as well as topics outside the music curriculum. The culmination of the course may include a written paper, presentation or performance. An Independent Study has to be arranged with, approved and monitored by a member of the music faculty.

FT; AA/AS; CSU.

NRSE-Nursing Education

NRSE 92 Nursing Student Success**8-9 hours lecture/0.5 hours lab; 1 unit****Grading:** Pass/No Pass Only**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for NRSE 265B
Special Admission - must be admitted to program.
This course is designed to provide the incoming nursing student with an introduction to the study of nursing. The student participates in eight four-hour sessions to explore and become familiar with the expectations and realities of being a nursing student. Utilizing a variety of topics, activities, examinations, and general information. This course is designed to assist the student to develop strategies to be successful in the Nursing Education Program. Emphasis is placed on the student's responsibilities in identifying person learning styles that are most effective and a personal study plan to facilitate mastery of this rigorous and challenging program. The philosophy of the Nursing Education Program and the role of the student in developing accountability, integrity, and meeting the standards of academic and clinical conduct are also discussed.

FT.**NRSE 108 Nursing Skills Laboratory II****1 hour lab; 1 unit****Grading:** Pass/No Pass Only**Limitation on Enrollment:** Special Admission - must be admitted to program.

This course is intended for second semester students pursuing an Associate of Science Degree in Nursing. It provides students an additional opportunity for practice and mastery of basic nursing skills. There is opportunity to apply related theoretical concepts with supervised practice of basic nursing skills that are concurrently presented in the second semester of the Nursing Education Program.

NRSE 121 Nursing Skills Laboratory I**1 hour lab; 1 unit****Grading:** Pass/No Pass Only**Limitation on Enrollment:** Special Admission - must be admitted to program.

This course is intended for first semester students pursuing an Associate of Science Degree in Nursing. It provides students an additional opportunity for practice and mastery of basic patient care skills. There is opportunity to apply related theoretical concepts with supervised practice of introductory patient care skills that are concurrently presented in the first semester of the Nursing Education Program.

NRSE 140 Foundations of Nursing**32-36 hours lecture/2.5 hours lab; 4.5 units****Grading:** Letter Grade Only**Prerequisite:** BIOL 205 with a Grade of "C" or better, or equivalent and BIOL 230 with a Grade of "C" or better, or equivalent and BIOL 235 with a Grade of "C" or better, or equivalent**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** Special Admission - must be admitted to program.

This course provides an introduction to nursing and the roles of the associate degree nurse, the nursing process, critical thinking, knowledge, and foundational skills necessary for beginning-level assessment and interventions (procedures) for adults. It also introduces the learner to the philosophy and conceptual framework of the nursing program. The emphasis is on meeting the client's basic needs throughout the life cycle. Introductory skills of client care are practiced in the skills and simulation laboratories with supervised clinical experiences in a variety of health settings. This course is intended for students enrolled in the first semester of the Associate of Science Degree in the Nursing.

FT; AA/AS; CSU.**NRSE 141 Pharmacology for Nursing****16-18 hours lecture; 1 unit****Grading:** Letter Grade Only**Corequisite: Completion of or concurrent enrollment in:** NRSE 140 with a Grade of "C" or better, or equivalent**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** Special Admission - must be admitted to program.

This course introduces basic concepts of pharmacology. Legal, ethical, psychological, cultural, and age-specific aspects of drug therapy are presented. A nursing process approach to the principles of medication administration and dosage calculation is included. This course is intended for students enrolled in the first semester of the Associate of Science Degree in Nursing.

FT; AA/AS; CSU.

NRSE 142 Medical Surgical Nursing I**32-36 hours lecture/2.5 hours lab; 4.5 units****Grading:** Letter Grade Only**Prerequisite:** NRSE 140 with a Grade of "C" or better, or equivalent and NRSE 141 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** Special Admission - must be admitted to program.

This course is an introduction to nursing concepts and practices as they relate to the young adult through geriatric adult in the medical surgical environment. Through utilization of the nursing process, the student begins to recognize alterations in physical and physiological functioning or illness and formulates age-appropriate nursing interventions. Topics include selected psychomotor skills associated with the basic human needs, medication administration, and intravenous therapy, are studied and practiced. This course is intended for students enrolled in the first semester of the Associate of Science Degree in Nursing.

FT; AA/AS; CSU.**NRSE 143 Pharmacology for Nursing II****16-18 hours lecture; 1 unit****Grading:** Pass/No Pass Only**Corequisite: Completion of or concurrent enrollment in:** NRSE 142 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** Special Admission - must be admitted to program.

This course provides supplementary instruction on pharmacologic intervention for medical surgical disorders. Emphasis is placed on drug categories and medications used in medical surgical nursing care environments. A nursing process approach to the principles of medication administration and dosage calculation is included. This course is intended for students enrolled in the Associate of Science Degree in Nursing.

NRSE 144 Medical Surgical Nursing II**32-36 hours lecture/2.5 hours lab; 4.5 units****Grading:** Letter Grade Only**Prerequisite:** NRSE 142 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** Special Admission - must be admitted to program.

This course develops the first year nursing student's knowledge and skills as they relate to the adult non-critical moderately complex medical-surgical client. Through utilization of the nursing process, the student recognizes alterations in functioning or illness and formulates age-appropriate nursing interventions. Psychomotor skills associated with moderately complex needs, medication administration and intravenous therapy are studied and practiced. The impact of multiple nursing diagnoses on client outcomes is introduced. This course is intended for nursing students enrolled in the second semester of the Associate of Science Degree in Nursing.

FT; AA/AS; CSU.**NRSE 145 Pharmacology for Nursing III****16-18 hours lecture; 1 unit****Grading:** Pass/No Pass Only**Corequisite: Completion of or concurrent enrollment in:** NRSE 144 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** Special Admission - must be admitted to program.

This course emphasizes drug categories and medications used in acute medical/surgical environments. A nursing process approach to the principles of medication administration and dosage calculation is included. This course is intended for students enrolled in the Associate of Science Degree in Nursing.

NRSE 146 Maternal-Child Health Nursing**36-40.5 hours lecture/2.3 hours lab; 4.5 units****Grading:** Letter Grade Only**Prerequisite:** NRSE 142 with a Grade of "C" or better, or equivalent**Advisory:** NRSE 140 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** Special Admission - must be admitted to program.

This course focuses on integration and application of the nursing process as it relates to the nursing care of the childbearing family, children, and their families. Emphasis is on the concepts and skills related to age-appropriate, family centered care. Clinical experiences provides opportunities for students to participate in therapeutic activities in a variety of pediatric and obstetrical settings. This course is intended for nursing students enrolled in the second semester of the Associate of Science Degree in Nursing.

FT; AA/AS; CSU.

NRSE 147 Pharmacology for Nursing IV**16-18 hours lecture; 1 unit****Grading:** Pass/No Pass Only**Corequisite: Completion of or concurrent enrollment in:** NRSE 146 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** Special Admission - must be admitted to program.

This course emphasizes drug categories and medications used in reproductive health, obstetrics, and pediatrics. A nursing process approach to the principles of medication administration and dosage calculation is included. This course is intended for students enrolled in the Associate of Science Degree in Nursing.

NRSE 206 Nursing Skills Laboratory III**1 hour lab; 1 unit****Grading:** Pass/No Pass Only**Limitation on Enrollment:** Special Admission - must be admitted to program.

This course is intended for third semester students pursuing an Associate of Science Degree in Nursing. It provides students an additional opportunity for practice and mastery of intermediate nursing care skills. There is opportunity to apply related theoretical concepts with supervised practice of intermediate nursing care skills that are concurrently presented in the third semester of the Nursing Education Program.

NRSE 208 Nursing Skills Laboratory IV**1 hour lab; 1 unit****Grading:** Pass/No Pass Only**Limitation on Enrollment:** Special Admission - must be admitted to program.

This course is intended for fourth semester students pursuing an Associate of Science Degree in Nursing. It provides students an additional opportunity for practice and mastery of advanced nursing skills required for the care of the complex patient. There is opportunity to apply advanced theoretical concepts to supervised practice of nursing skills needed for the care of the complex patient.

NRSE 235 LVN to RN Transition**24-27 hours lecture/0.5 hours lab; 2 units****Grading:** Letter Grade Only**Prerequisite:** BIOL 205 with a Grade of "C" or better, or equivalent and BIOL 230 with a Grade of "C" or better, or equivalent and BIOL 235 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** Special Admission - must be admitted to program.

This course focuses on the theory and application of the concepts of physical assessment, nursing process, critical thinking, disease processes and nursing competencies in the professional roles of clinician, teacher, leader, and advocate. Emphasis is on assisting the Licensed Vocational Nurse (LVN) to integrate into the Associate Degree Nursing. This course is offered to students accepted into the LVN to Registered Nurse (RN) step up program.

FT; AA/AS; CSU.**NRSE 240 Medical/Surgical Nursing III****32-36 hours lecture/2.5 hours lab; 4.5 units****Grading:** Letter Grade Only**Prerequisite:** NRSE 144 with a Grade of "C" or better, or equivalent and NRSE 146 with a Grade of "C" or better, or equivalent and NRSE 235 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** Special Admission - must be admitted to program.

This course assists the learner to synthesize and correlate nursing knowledge and skills in providing care to multiple clients who have complex, multi-system illnesses. Focus is for the learner to predict client needs and priorities, and evaluate outcomes of care. Associated psychomotor skills are integrated and practiced. This course is offered to students enrolled in the second year of the Associate of Science Degree in Nursing.

FT; AA/AS; CSU.**NRSE 241 Pharmacology for Nursing V****16-18 hours lecture; 1 unit****Grading:** Pass/No Pass Only**Corequisite: Completion of or concurrent enrollment in:** NRSE 240 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** Special Admission - must be admitted to program.

This course provides supplementary instruction on pharmacologic intervention for medical-surgical disorders. Emphasis is placed on drug categories and medications introduced in advanced medical-surgical nursing care environments. A nursing process approach to the principles of medication administration and dosage calculation is included. This course is offered to students enrolled in the Associate of Science Degree in Nursing.

NRSE 242 Mental Health & Gerontological Nursing

36-40.5 hours lecture/2.3 hours lab; 4.5 units

Grading: Letter Grade Only

Prerequisite: NRSE 144 with a Grade of "C" or better, or equivalent or NRSE 146 with a Grade of "C" or better, or equivalent or NRSE 235 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Special Admission - must be admitted to program.

This course is an introduction to mental health/psychiatric and gerontological nursing using the nursing process to promote psychosocial and physiological integrity. Emphasis is on therapeutic interaction and communication, bio-psychosocial rehabilitation, and therapeutic use of self. Clinical experiences provide opportunities for students to participate in therapeutic activities in a variety of settings. The student also explores interventions to increase the client's functional abilities with an emphasis on lifestyle and physical changes. This course is offered to students enrolled in the second year of the Associate of Science Degree in Nursing.

FT; AA/AS; CSU.

NRSE 243 Pharmacology for Nursing VI

16-18 hours lecture; 1 unit

Grading: Pass/No Pass Only

Corequisite: Completion of or concurrent enrollment in: NRSE 242 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Special Admission - must be admitted to program.

This course provides supplementary instruction on pharmacologic intervention in mental health and gerontological nursing. Emphasis is placed on drug categories and medications used in psychiatric/mental health and gerontological environments. A nursing process approach to the principles of medication administration and dosage calculation is included. This course is offered to students enrolled in the Associate of Science Degree in Nursing program.

NRSE 244 Medical Surgical Nursing IV

36-40.5 hours lecture/2.3 hours lab; 4.5 units

Grading: Letter Grade Only

Prerequisite: NRSE 240 with a Grade of "C" or better, or equivalent and NRSE 242 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Special Admission - must be admitted to program.

This course focuses on the advanced application of the nursing process in the care of critically ill adult and geriatric clients. The student organizes and discriminates data to establish priorities of care. Correlated clinical experiences emphasize the refinement of clinical decision-making, psychomotor skills, and management of client care in professional nursing practice. This course is offered to students in the final semester of the Associate of Science Degree in Nursing program.

FT; AA/AS; CSU.

NRSE 245 Pharmacology for Nursing VII

16-18 hours lecture; 1 unit

Grading: Pass/No Pass Only

Corequisite: Completion of or concurrent enrollment in: NRSE 244 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Special Admission - must be admitted to program.

This course provides supplementary instruction on pharmacologic intervention for complex medical surgical disorders. Emphasis is placed on drug categories and medications introduced in complex medical surgical nursing care environments. A nursing process approach to the principles of medication administration and dosage calculation is included. This course is offered to students enrolled in the Associate of Science Degree in Nursing.

NRSE 246 Leadership in Nursing

36-40.5 hours lecture/2.3 hours lab; 4.5 units

Grading: Letter Grade Only

Prerequisite: NRSE 240 with a Grade of "C" or better, or equivalent and NRSE 242 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Special Admission - must be admitted to program.

This course focuses on the transition from student to staff nurse, emphasizing the responsibilities of planning, organizing, directing, and coordinating client care. Principles of leadership, delegation, time management, decision-making, collegial communication, group dynamics, conflict resolution, and change are included. The clinical experience requires the application of all previously learned concepts and skills. Acute care, long-term care, or community settings are utilized. This course is offered to students in the final semester of the Associate of Science Degree in Nursing.

FT; AA/AS; CSU.

NRSE 270 Occupational Work Experience in Nursing Education**1-4 hours other; 1-4 units****Grading:** Letter Grade Only**Prerequisite:** NRSE 144 with a Grade of "C" or better, or equivalent and NRSE 146 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** Special Admission - must be admitted to program.

This is a work experience course authorized by the Board of Registered Nursing. Students must be employed by or volunteer at a clinical site with which the nursing education program has a current affiliation agreement. The clinical site supports the objectives of the course and provides direct supervision of students through staff nurse mentors. Students apply previously learned nursing theory and clinical skills to perform client care. Students must be in good standing to enroll in this course. One unit of credit may be earned for every 54 hours of work experience. A maximum of fourteen credit hours for all work experience subject areas may be earned during one enrollment period.

FT; AA/AS; CSU.**NRSE 290 Independent Study****1-3 hours other; 1-3 units****Grading:** Pass/No Pass Only**Limitation on Enrollment:** Special Admission - must be admitted to program.

Obtain Permission Number from Instructor

This course provides students with an opportunity for additional academic and/or clinical experience in a particular area of nursing.

FT; AA/AS; CSU.

NUTR-Nutrition

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

NUTR 150 Nutrition Science and Global Food Issues

48-54 hours lecture; 3 units

Grading: Letter Grade Only

This course is a multidisciplinary scientific examination of the effects of nutrition on health, including global problems of food and nutrition. Topics in this introductory course include the socio-economic, political, ecological, biological, and chemical processes involved in procuring food; digesting, absorbing, transporting, metabolizing, and storing nutrients; the role of the microbiota; how endocrine and immune functions affect hunger, appetite and metabolic health; and the interactions between nutrients, genetics, and the environment. Students in the course critically examine diverse eating patterns in the context of disease prevention, nutritional needs throughout the life cycle, and healthful food sources for nutrients and food groups. Students also utilize computer technology to analyze dietary intake and evaluate nutritional status. Current topics in nutrition are critiqued using the scientific method. This course is intended for students majoring in nutrition, exercise science, dietetics, nursing, medicine, as well as anyone interested in learning more about their health.

FT; AA/AS; CSU; UC; C-ID: NUTR 110.

NUTR 153 Cultural Foods

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for CACM 150.

This course examines the regional, ethnic, cultural, religious, historical and social influences on food patterns and cuisine, as well as how food is viewed as an expression of cultural diversity. Traditional foods of geographic areas and cultures, geographic factors in food availability, global food issues, dietary habits, religious influences and an overview of nutritional problems of ethnic groups are discussed and assessed. Connection is drawn between major historical events and how and why these events affected and defined the culinary traditions of different societies. Also presented are nutrition consequences of ethnic food choices, sanitation and safety practices, and applications of food and nutrition services. This course is for students interested in a career in nutrition, culinary, hospitality management, and those with an interest in ethnic cuisine.

FT; AA/AS; CSU; UC.

NUTR 170 Nutrition and Fitness

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

This course is a practical study of sports and nutrition. Emphasis is placed on the role of nutrition and enhanced performance. Students evaluate their nutritional needs during various stages of exercise. Topics include carbohydrate loading, use of supplements, determination of body composition. This course is intended for nutrition majors, athletes and all students interested in health and fitness.

FT; AA/AS; CSU.

PADM-Public Administration

PADM 110 Introduction to Law and Society

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This is an introductory course on the American legal system and its impact on society. Topics include different sources of law such as the federal and state constitutions and statutes, court cases, and administrative agency rules. Emphasis is placed on review of basic legal reasoning, the history and structure of the American legal system, and the way the application of the law shapes society, democracy, civil liberties, and equal rights. This course is intended for students pursuing a major in political science, public administration, and other related fields.

FT; AA/AS; CSU; UC; C-ID: LPPS 110.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

PADM 200 Introduction to Public Administration

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course explores the theory and practice of public administration and social policy. Topics include an examination of all levels of governmental structures, organizational theory, public policy decision-making processes, performance assessment, Human Resource Management (HRM), leadership, budgeting, administrative law, intergovernmental relations, and ethics as they apply to the field of public administration. This course is intended for students majoring in Public Administration and all students interested in politics, social policy, and the administration of public agencies.

FT; AA/AS; CSU; UC.

PARA-Paralegal

PEAC-Peace Studies

PEAC 101 Introduction to Peace Studies

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course provides an overview of the field of peace studies and offers an in-depth look into theories related to peace, conflict studies and non-violence. Students gain an understanding of the various tools and processes that are used internationally in working towards a more equitable, just and peaceful world. Contemporary case studies are explored offering students an interdisciplinary approach to the field in order to address the four main pillars of the Peace Studies program which are human rights, conflict studies, peace processes and the concept of justice in relation to peace.

FT; AA/AS; CSU; UC.

PERG-Personal Growth

PERG 31 Career Planning**32-36 hours lecture; 2 units****Grading:** Letter Grade or Pass/No Pass**Limitation on Enrollment:** This course is not open to students with previous credit for PERG 30

This course is designed for students who are interested in making career choices. Topics include career exploration through self-assessment in values, personality, interests, and skills. Students learn decision-making strategies as they apply to educational planning and career development.

FT.**PERG 110 Introduction to College****24-27 hours lecture; 1.5 units****Grading:** Letter Grade or Pass/No Pass

This course introduces the knowledge and skills necessary to survive and thrive during the first year in college. Students examine higher education structures, the opportunities and resources available, and the requirements to successfully complete a certificate, degree and transfer. Emphasis is placed on the transition to college learning and college life, self-reflection and self-advocacy, goal setting, academic policies, major selection and educational planning. Students develop and apply critical analysis skills, information literacy, and successful attitudes and behaviors in joining a college community. This course is intended for first time and re-entry college students.

FT; AA/AS; CSU; UC.**PERG 120 College Success and Lifelong Learning****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Limitation on Enrollment:** This course is not open to students with previous credit for PERG 127.

This course teaches success strategies to enhance academic and lifelong learning skills. Students explore topics such as discovering self-motivation, accepting personal responsibility, mastering self-management, employing interdependence, gaining self-awareness, goal setting, decision-making strategies, critical and creative thinking, personal health topics, interpersonal communication, developing emotional intelligence, and learning and personality theories, as well as other techniques for maximizing their abilities to succeed as lifelong learners. Students apply these topics as they relate to their personal and professional self-development and to the discovery of many new options for improving all aspects of their lives. This course is intended for new college students or those seeking to develop their academic and lifelong learning skills.

FT; AA/AS; CSU; UC.**PERG 130 Career - Life Planning****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass

This course is designed for students interested in self-exploration, career transitions, and career-life planning in order to achieve success in a diverse society. Various assessments are utilized through a systematic approach to career development by examining values, interests, skills, and personality types. Other topics include life roles, personal self-management, decision making, and goal setting throughout the lifespan. This course is intended for students who are considering a career change or are undecided about their future career field or college major.

FT; AA/AS; CSU; UC.**PERG 140 Life Skills and Personal Adjustment****16-18 hours lecture; 1-3 units****Grading:** Letter Grade or Pass/No Pass

In this course students develop their emotional, social, educational, and professional life skills. It is a practical study of the principles and application of strategies that assist in the development of coping and life skills. Topics include self-esteem and compassion, self-discipline, self-responsibility, self-assertion, and living a consciously balanced life in pursuit of defined educational, career, and life goals. This course is intended for students beginning college or anyone seeking to balance educational, career, and life goals.

FT; AA/AS; CSU.**PERG 160 Stress Management & Well-Being in the Modern World****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ELAC 35 with a Grade of "C" or better, or equivalent

This course is an opportunity to explore, assess, and evaluate stress management and holistic well-being across the lifespan. The course explores the mind-body relationship (psychophysiology) of stress, stressors across the lifespan, coping skills, and interventions. Emphasis is placed on managing stress and anxiety in the modern world. Topics include well-being in relation to career, physical and mental health, finances, relationships, and community connection. This course is designed for students seeking help with stress management, holistic well-being, and life balance.

FT; AA/AS; CSU.

PHIL-Philosophy

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

PHIL 100 Logic and Critical Thinking

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course explores the relationship of communications and critical thinking with a focus on good reasoning and impediments to its mastery. It emphasizes the development of skills in logical analysis including familiarity with the more common fallacies. This course is designed for students learning to apply principles of critical thinking to the practical problems of everyday life.

FT; AA/AS; CSU; UC.

PHIL 101 Symbolic Logic

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a study of the elements of symbolic logic, sentential calculus and quantification theory. Topics include identity, definite descriptions, natural deduction and structure of language. This course is intended for philosophy majors and students pursuing studies in computer science.

FT; AA/AS; CSU; UC; C-ID: PHIL 210.

PHIL 102A Introduction to Philosophy: Reality and Knowledge

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course is an introductory study of the aims, methods, types and problems of philosophy and philosophical inquiry. Emphasis is placed on the nature of reality and knowledge. Materials for this survey of philosophy may draw from classical and contemporary thinkers. Students are encouraged to articulate, analyze, and evaluate their own beliefs/positions in the context of meaningful philosophical inquiry. This course is intended for anyone concerned with human existence and humanity's place in the universe.

FT; AA/AS; CSU; UC; C-ID: PHIL 100.

PHIL 102B Introduction to Philosophy: Values

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course provides an introductory study of the aims, methods, types, and problems of philosophy focusing on values and their place in an individual's daily life. Materials for this survey may be drawn from classical and contemporary thinkers. Students are encouraged to articulate, analyze, and evaluate their own beliefs/positions in the context of meaningful philosophical inquiry regarding value theory. This course is for anyone interested in the origin and justification of values and their application to everyday life.

FT; AA/AS; CSU; UC; C-ID: PHIL 120.

PHIL 103 Historical Introduction To Philosophy

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course is an introduction to the issues and problems exemplified in the process of meaningful activity in Western philosophy from the pre-Socratics to the present. Students in this course survey the major philosophers in their historical contexts. Materials may be drawn from classical and contemporary thinkers. Students are encouraged to engage in independent research, analysis and formulation. This course is intended for students pursuing studies in History and Humanities, and anyone interested in the history of philosophy.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

**PHIL 103 Historical Introduction To Philosophy
48-54 hours lecture; 3 units**

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course is an introduction to the issues and problems exemplified in the process of meaningful activity in Western philosophy from the pre-Socratics to the present. Students in this course survey the major philosophers in their historical contexts. Materials may be drawn from classical and contemporary thinkers. Students are encouraged to engage in independent research, analysis and formulation. This course is intended for students pursuing studies in History and Humanities, and anyone interested in the history of philosophy.

FT; AA/AS; CSU; UC.

**PHIL 104A History Of Western Philosophy:
Ancient to Medieval**

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course is an introduction to the issues and problems exemplified in the process of meaningful philosophical activity related to the history of western philosophy from the pre-Socratics to the close of the Medieval age. Students in this course survey representative theories and philosophical reflections related to the history of early western philosophy. Students are encouraged to engage in independent research, analysis and formulation. This course is intended for students pursuing studies in History and Humanities, and anyone interested in the history of western philosophy.

FT; AA/AS; CSU; UC.

**PHIL 104B History of Western Philosophy:
Modern to Contemporary**

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course is an introduction to the issues and problems exemplified in the process of meaningful philosophical activity related to the history of western philosophy from the Modern period through the 20th Century. Students in this course survey representative theories and philosophical reflections related to the history of philosophy from the Modern to Contemporary periods. Students are encouraged to engage in independent research, analysis and formulation. This course is intended for students pursuing studies in History and Humanities, and anyone interested in the history of western philosophy.

FT; AA/AS; CSU; UC.

PHIL 105 Contemporary Philosophy

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course explores the issues and problems associated with philosophy in the 20th and 21st centuries. Emphasis is placed on the representative thinkers of the modern and post-modern eras. Students are encouraged to engage in independent research, analysis and formulation. This course is designed for students interested in contemporary society and current events.

FT; AA/AS; CSU; UC.

PHIL 106 Asian Philosophy

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course explores issues in the philosophical study of Asian philosophy, including questions relating to the nature of the universe, the status and meaning of humankind, and the qualities characterizing the good life. This course may be of special interest to students pursuing Pacific Rim or International Studies.

FT; AA/AS; CSU; UC.

PHIL 107 Reflections on Human Nature

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course is an introductory study of the issues and problems exemplified in the process of meaningful philosophical activity relating to the topic of human nature. Students in this course survey representative theories and philosophical reflections relating to the notions of human nature, the individual person, and human characteristics in general. Material for this survey may be drawn from classical and contemporary thinkers or scientific and religious orientations. Students are encouraged to engage in independent research, analysis and formulation. This course is intended for students pursuing studies in behavioral and/or social sciences.

FT; AA/AS; CSU; UC.

PHIL 108 Perspectives on Human Nature and Society

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course is an introduction to the issues and problems exemplified in the process of meaningful philosophical activity relating to the topics of human nature and human societal configurations. Students in this course survey representative theories and philosophical reflections related to the notions of human nature and human societal configurations such as the nature of society, the state, and government, with an emphasis on experiential elements of meaningful human existence, and notions of ideal society. Students are encouraged to engage in independent research, analysis and formulation. This course is intended for students pursuing studies in behavioral, social or political science, and anyone interested in philosophy of human nature.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

PHIL 109 Issues in Social Philosophy

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course is an introduction to the issues and problems exemplified in the process of meaningful philosophical activity related to social philosophy. Students in this course survey representative theories and philosophical reflections related to the notions of social ethics and concepts in social philosophy such as types of government, the issues of sovereignty, natural law and natural rights, the philosophy of law, and issues of justice. Students are encouraged to engage in independent research, analysis and formulation. This course is intended for students pursuing studies in pre-law, and/or political, behavioral or social sciences, and anyone interested in social philosophy.

FT; AA/AS; CSU; UC.

PHIL 110 Philosophy of Religion

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course explores issues associated with the philosophical understanding of religious phenomena and belief. It analyzes philosophical arguments relating to religious beliefs and includes discussions of Western as well as non-Western belief systems. This course may be of interest to students pursuing religious and cultural studies.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

PHIL 111 Philosophy In Literature and Other Fiction

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course is an introduction to the issues and problems exemplified in the process of meaningful philosophical activity related to philosophy in literature and fiction in general. Students in this course survey representative theories and philosophical reflections related to the philosophical issues and themes in selected classical and/or contemporary literature and other fiction such as the nature of reality, the notion of the self, the issue of choice and determinism, the problem of good and evil, and the characteristics of the good life. Students are encouraged to engage in independent research, analysis and formulation. This course is intended for students pursuing studies in literature and media theory, the Behavioral and/or Social Sciences, and anyone interested in philosophy in fiction.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

PHIL 125 Philosophy of Women

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course is an introduction to the issues and problems exemplified in the process of meaningful philosophical activity related to philosophy of women. Students in this course survey representative theories and philosophical reflections related to philosophy of women such as concepts of womanhood and feminism as they have found expression in mythic, classic, medieval and major modern philosophical traditions. Students are encouraged to engage in independent research, analysis and formulation. The course is intended for students pursuing women's studies and/or political, behavioral or social sciences, and anyone interested in philosophy of women.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

PHIL 126 Philosophy of Contemporary Gender Issues

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course provides an introduction to the concepts of gender and gender relations. Emphasis is placed on the images, roles, and beliefs about gender and gender relations as they vary across cultures. Topics include the impacts of gender on our everyday lives and the broader societies, including experiences of LGBTQ+ (lesbian, gay, bisexual, transgender, queer, plus) communities. This course is intended for students interested in the development of contemporary gender issues from a philosophical perspective.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

PHIL 130 Philosophy of Art and Music

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course employs philosophical methods to explore the concepts, principles, and criteria used in the creation and evaluation of art and music. In addition to students interested in philosophy, this course is designed for any student seeking to gain a better understanding of why we appreciate art and music and how we develop standards for evaluating them. A variety of arts may be discussed including painting, sculpture, architecture, design, music, dance, theatre, and literature.

FT; AA/AS; CSU; UC.

PHIL 131 Environmental Ethics**48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

ENGL 105 with a Grade of "C" or better, or equivalent

PHIL 100 with a Grade of "C" or better, or equivalent

This course allows students to gain an understanding of the field of moral philosophy as it pertains to environmental issues. Ethical theories are analyzed through application to issues such as: population growth, future generations, biodiversity, animal rights, pollution, energy use and consumption. This course is intended for students interested in Sustainability, Environmental Science, Philosophy, Biology, Sociology, Geology, Ecology, and Peace Studies.

FT; AA/AS; CSU; UC.**PHIL 205 Critical Thinking and Writing in Philosophy****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This critical thinking and writing seminar in Philosophy is designed to enhance the student's critical thinking, writing, and research skills in preparation for upper division academic activity. Issues addressed in this class may involve various areas of human experience and aspiration: metaphysical, cosmological, scientific, political, ethical, aesthetic, and religious. Together with the application of basic principles of deduction and induction, special attention is given to identifying and avoiding fallacies in reasoning, and to techniques and aids to research, reasoning, and writing. This course is designed for students who want to hone their writing and critical thinking skills in Philosophy.

FT; AA/AS; CSU; UC.**PHIL 290 Independent Study****1-3 hours other; 1-3 units****Grading:** Letter Grade or Pass/No Pass**Limitation on Enrollment:** Obtain Permission Number from Instructor

This course is for students who wish to conduct additional research, a special project or problem, or learning activities in the field of philosophy. It is not intended to replace an existing course in the discipline. In this course students have a written contract with their instructor for activities such as: preparing problem analyses, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals.

PHOT-Photography

PHOT 100 Introduction to Black & White Photography

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is an introduction to basic camera handling skills and the aesthetics of photography, utilizing black and white film. Emphasis is placed on how to use cameras, lenses, enlargers, and related equipment. Proper film exposure and compositional skills to create original images are also covered. Laboratory practice includes black and white film processing, darkroom printing, and print presentation. This course is intended for students majoring in photography or those with a desire to explore the "old-school" methods of darkroom printing.

FT; AA/AS; CSU; UC.

PHOT 102A Directed Darkroom Studies I

1 hour lab; 1 unit

Grading: Pass/No Pass Only

Corequisite: Completion of or concurrent enrollment in: PHOT 100 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHOT 102

This course is the first in a series of four courses of supervised darkroom studies. Emphasis is placed on basic photographic and darkroom skills. This course is intended for photography majors and those interested in darkroom photography.

PHOT 102B Directed Darkroom Studies II

1 hour lab; 1 unit

Grading: Pass/No Pass Only

Prerequisite: PHOT 102A with a Grade of "C" or better, or equivalent

This course is the second in a series of four courses of supervised darkroom studies. Emphasis is placed on intermediate photographic and darkroom skills and medium format film and print techniques. This course is intended for photography majors and those interested in darkroom photography.

PHOT 102C Directed Darkroom Studies III

1 hour lab; 1 unit

Grading: Pass/No Pass Only

Prerequisite: PHOT 102B with a Grade of "C" or better, or equivalent

This course is the third in a series of four courses of supervised darkroom studies. Emphasis is placed on intermediate-advanced photographic and darkroom skills and non-traditional processes and camera use. This course is intended for photography majors and those interested in darkroom photography.

PHOT 102D Directed Darkroom Studies IV

1 hour lab; 1 unit

Grading: Pass/No Pass Only

Prerequisite: PHOT 102C with a Grade of "C" or better, or equivalent

This course is the final in a series of four courses of supervised darkroom studies. Emphasis is placed on large format film and advanced photographic and darkroom skills and print techniques. This course is intended for photography majors and those interested in darkroom photography.

PHOT 103 Digital Directed Photo Lab Studies

1 hour lab; 1 unit

Grading: Pass/No Pass Only

Advisory: Completion of or concurrent enrollment in:

PHOT 105 with a Grade of "C" or better, or equivalent or PHOT 143 with a Grade of "C" or better, or equivalent

This course is a project-based supervised lab in digital photography. Emphasis is placed on instruction and practice in photo lab and photo editing techniques. This course is intended for Photography majors and students interested in digital photography.

PHOT 105 Introduction to Photography

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This is a basic photography course for non-photo majors covering use of cameras, lenses, in-camera light meter, and tripods. Topics include shutter speeds, depth of field, portraiture, macro, and night photography.

FT; AA/AS; CSU.

PHOT 109 Photographic Composition and Design

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: Completion of or concurrent enrollment in:

PHOT 100 with a Grade of "C" or better, or equivalent or PHOT 143 with a Grade of "C" or better, or equivalent

This course is a study of image design and composition as applied to photography. Emphasis is placed on identifying and isolating compositional elements of a photograph. Topics include the Rule of Thirds, balance, line, and aspect ratio as applied to photographic imaging. This course is intended for students majoring in photography, pursuing a career in photography, or interested in improving their general photographic skills.

FT; AA/AS; CSU.

PHOT 125 Photo Business Operations

32-36 hours lecture; 2 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

PHOT 100 with a Grade of "C" or better, or equivalent
PHOT 143 with a Grade of "C" or better, or equivalent
This course covers basic business organization and planning techniques appropriate for media and photographic production businesses, including pre-production planning, budgeting, and scheduling. Topics include an exploration of a variety of current photography-related business operations, portfolio development, and presentation skills. This is a course for photography majors and those seeking career opportunities in photography.

FT; AA/AS; CSU.

PHOT 135 Intermediate Black & White Photography

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Prerequisite: PHOT 100 with a Grade of "C" or better, or equivalent

This course provides students with intermediate-level instruction and practice in black and white film exposure and development procedures and printing. Emphasis is placed on various techniques for enhancing black and white negative and print quality. Topics also include composition, visual communication skills, use of light, lighting control, and equipment. Instruction includes use of 35 mm format and an introduction to medium format cameras. This course is intended for students majoring in photography or having a serious interest in darkroom / fine art image making.

FT; AA/AS; CSU.

PHOT 143 Introduction to Digital Photography

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is an introduction to the methods and processes involved in photographic image acquisition, optimization, and output used in digital photography. Emphasis is placed on the evolution from traditional, analog/wet darkroom to digital approaches to photography and the relationship between these approaches. This is a course for photography majors or those seeking career opportunities in photography.

FT; AA/AS; CSU.

PHOT 150 History of Photography

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a survey of the history and development of photography. Emphasis is placed on the various scientific and aesthetic issues involved in creating the 'light-based' image from its inception as a tool of fine art through its involvement in the digital revolution. Topics include the social and cultural impacts of photography, the chemical and optical requirements of the process, and the major historical figures in the development of photography and photographic genres. This course is intended for students majoring in photography or students interested in the history of photography.

FT; AA/AS; CSU; UC.

PHOT 160 Book Publishing for Photographers

16-18 hours lecture/0.5 hours lab; 1.5 units

Grading: Letter Grade or Pass/No Pass

Advisory: DSGN 100 with a Grade of "C" or better, or equivalent or PHOT 100 with a Grade of "C" or better, or equivalent or PHOT 143 with a Grade of "C" or better, or equivalent

This course is a hands-on study of book publishing for photographers. Emphasis is placed on concept creation, layout, design and assembly strategies, and publishing and promotion options. This course is designed for intermediate-level photography students with an interest in creating photographic books for portfolios, monographs, or self-promotion purposes.

FT; AA/AS; CSU.

PHOT 165 Online Portfolio: Websites for Photographers

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Advisory: PHOT 143 with a Grade of "C" or better, or equivalent or PHOT 180 with a Grade of "C" or better, or equivalent or PHOT 181 with a Grade of "C" or better, or equivalent

This course is a hands-on study in the development of an online portfolio to showcase work and/or function as a sales tool for art work or professional services. Emphasis is placed on the special layout and design needs of photographic websites for showing and selling images. This course is designed for intermediate and advanced photo students ready to offer their work and/or creative services.

FT; AA/AS; CSU.

PHOT 180 Photo Editing: Lightroom**32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade Only**Advisory:** PHOT 143 with a Grade of "C" or better, or equivalent

This course is an introduction to the theories and methods of computer use in image-making utilizing both traditional photography and digital technology. The course provides hands on experience in using computer technology as a digital darkroom. Emphasis is on the use of industry standard photo editing software, specifically Adobe Lightroom. Focus is on the applications and principles of image creation, manipulation, and enhancement for visual expression and communication. This course is for photography students who can demonstrate an introductory-level of skill in digital imaging.

FT; AA/AS; CSU.**PHOT 181 Photo Editing: Photoshop****32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade Only**Advisory:** PHOT 143 with a Grade of "C" or better, or equivalent

This course presents introductory and intermediate-level techniques utilizing Adobe Photoshop. Students explore a variety of technical and creative tools for producing, editing, and altering digital images. This course is for photography students who can demonstrate an introductory-level of skill in digital imaging.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

PHOT 201A Photographic Lighting Techniques I**32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade Only**Advisory:** PHOT 143 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for Photo 200 or Photo 200A. This is the first in a series of lighting technique courses. Emphasis is placed on a foundational understanding of lighting concepts, techniques, and equipment used in all phases and types of film and digital photography. Topics include control and manipulation of lighting and lighting equipment using both additive and subtractive lighting techniques. This course is designed for intermediate and advanced-level students in photography.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

PHOT 201B Photographic Lighting Techniques II**32-36 hours lecture/1 hour lab; 3 units****Grading:** Letter Grade Only**Prerequisite:** PHOT 201A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHOT 203

This is the second in a series of lighting technique courses. Emphasis is placed on intermediate level lighting concepts and industry-standard practices. Topics include mixed lighting, location lighting, painting with light, green screen sets, tethered capturing, and the use of a light table. This course is designed for intermediate and advanced-level students in photography.

FT; AA/AS; CSU.**PHOT 204A Creative Darkroom Techniques I****8-9 hours lecture/0.5 hours lab; 1 unit****Grading:** Letter Grade or Pass/No Pass**Advisory:** PHOT 100 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHOT 204, PHOT 211, or PHOT 265G.

This course is the first in a series for intermediate and advanced photo students. It provides a broad base of creative photographic techniques for the darkroom. Emphasis is placed on printing images from non-traditional camera types, including toy and pinhole cameras. Topics include artistic methods, such as high contrast/litho imaging and specialty films. This course is intended for photography majors or those interested in fine art photography.

FT; AA/AS; CSU.

PHOT 204B Creative Darkroom Techniques II

8-9 hours lecture/0.5 hours lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Advisory: PHOT 100 with a Grade of "C" or better, or equivalent and PHOT 143 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHOT 213

This course is the second in a series for intermediate and advanced photo students. It provides a broad base of creative photographic techniques for the darkroom. Emphasis is placed on printing images from infrared film and modified digital cameras to capture a part of the spectrum unseen by human eyes. Topics include artistic methods, such as infrared film selection, digital camera filters and conversion, and printing from film or digital capture. This course is intended for photography majors or those interested in fine art photography.

FT; AA/AS; CSU.

PHOT 204C Creative Darkroom Techniques III

8-9 hours lecture/0.5 hours lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Advisory: PHOT 135 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHOT 216

This course is the third in a series for intermediate and advanced photo students. It provides a broad base of creative photographic techniques for the darkroom. Emphasis is placed on historical and alternative photographic processes used in both the fine art and commercial world. This course is intended for photography majors or those interested in fine art photography.

FT; AA/AS; CSU.

PHOT 204D Creative Darkroom Techniques IV

8-9 hours lecture/0.5 hours lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Advisory: PHOT 135 with a Grade of "C" or better, or equivalent and PHOT 143 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHOT 217

This course is the fourth in a series for intermediate and advanced photo students. It provides a broad base of creative photographic techniques for the darkroom. Emphasis is placed on the creation of quality darkroom prints (silver, cyanotype, etc.) from digital files, including digital single lens reflex (DSLR), iPhone, or scanned negatives. This course is intended for photography majors or those interested in fine art photography.

FT; AA/AS; CSU.

PHOT 205 Travel Photography

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: PHOT 100 with a Grade of "C" or better, or equivalent or PHOT 105 with a Grade of "C" or better, or equivalent or PHOT 143 with a Grade of "C" or better, or equivalent

This course provides students with the necessary concepts and techniques to improve their image-making while traveling. The course covers film and digital, color and black and white, infrared, tripods, night photography, lens selection, filters, luggage/packing, X-ray, printing, and more. This course is designed for students with a serious interest or career aspirations in stock, editorial, travel, assignment, or fine art photography.

FT; AA/AS; CSU.

PHOT 206A Creative Digital Techniques I

8-9 hours lecture/0.5 hours lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Advisory: PHOT 143 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHOT 212

This course is the first in a series for intermediate and advanced photo students. Emphasis is placed on creative digital photographic techniques. Topics include High Dynamic Range Imaging (HDRI) photographic techniques and expanding the capture range of digital imaging chips and/or to push processing into impressionistic or surreal output. This course is intended for photography majors or those interested in digital photography.

FT; AA/AS; CSU.

PHOT 206B Creative Digital Techniques II

8-9 hours lecture/0.5 hours lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Advisory: PHOT 143 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHOT 214

This course is the second in a series for intermediate and advanced photo students. Emphasis is placed on creative digital photographic techniques. Topics include the use of multi-shot techniques to create panoramas, mosaics (multi-row panoramas), and extended depth of field using digital editing techniques. This course is intended for photography majors or those interested in digital photography.

FT; AA/AS; CSU.

PHOT 206C Creative Digital Techniques III

8-9 hours lecture/0.5 hours lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Advisory: PHOT 143 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHOT 218

This course is the third in a series for intermediate and advanced photo students. Emphasis is placed on creative digital photographic techniques. Topics include equipment and techniques used for macro and close-up photography. This course is intended for photography majors or those interested in digital photography.

FT; AA/AS; CSU.

PHOT 206D Creative Digital Techniques IV

8-9 hours lecture/0.5 hours lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Advisory: PHOT 143 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHOT 219

This course is the fourth in a series for intermediate and advanced photo students. Emphasis is placed on creative digital photographic techniques. Topics include techniques and materials involved in printing on canvas and other non-traditional surfaces. This course is intended for photography majors or those interested in digital photography.

FT; AA/AS; CSU.

PHOT 215 Photojournalism and Documentary Photography

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Advisory: PHOT 100 with a Grade of "C" or better, or equivalent or PHOT 143 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for DJRN 215 if taken within the last five years

This course covers the use of photographs to illustrate news stories, feature stories, and other narrative content. Emphasis is placed on the approaches to creating images from the objective news photo to the persuasive documentary image. Topics include exploring the equipment used by professional photojournalists in the field and their interaction with the photo editor/buyer. Legal and ethical issues in news media, including the implications of social and cultural constructs, economics, technology, and equity and social justice, are explored. The course is designed for students pursuing media-related majors and for those seeking employment in the field.

FT; AA/AS; CSU.

PHOT 220 Portraiture

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Prerequisite: PHOT 201A with a Grade of "C" or better, or equivalent

This course covers camera types and formats, lenses, digital capture, and accessory equipment used for portrait photography. Topics include the physical, psychological, and compositional aspects and characteristics of different portrait styles. Emphasis is placed on different types and sources of light, both in the studio and on location, use of black and white (B/W) and color films and digital capture, posing techniques and proper use of cosmetics, clothing, etc. This course is intended for intermediate and advanced photography students.

FT; AA/AS; CSU.

PHOT 221 Fine Art and Photography

16-18 hours lecture; 1 unit

Grading: Letter Grade or Pass/No Pass

Advisory: PHOT 100 with a Grade of "C" or better, or equivalent or PHOT 143 with a Grade of "C" or better, or equivalent

This course is intended for intermediate and advanced photography students and covers definitions and characteristics of fine art photography. Many fine art photographers are examined throughout various decades and genres, with an emphasis on the visual tools used to create fine art work. Presentation, framing, and marketing are also researched and analyzed.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

PHOT 224 Color Management for Digital Photography

8-9 hours lecture/0.5 hours lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Advisory: PHOT 143 with a Grade of "C" or better, or equivalent

This course is intended for students with previous experience using Lightroom or Photoshop and want to produce prints that match their monitors. Topics include monitor calibration, International Color Consortium (ICC) profiles, inkjet printers, media selection, and profile settings for printing at commercial labs.

FT; AA/AS; CSU.

PHOT 230 Advertising Photography

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Advisory: PHOT 143 with a Grade of "C" or better, or equivalent or PHOT 201A with a Grade of "C" or better, or equivalent

This advanced photography course emphasizes production of photographs to sell a client's products or services. Topics include the photographer's role in the advertising industry. Emphasis is placed on terminology used in the advertising field, layout production, working to layouts, the psychology of advertising design, use of color, lighting equipment, and lighting techniques. This course is designed for photography majors or advanced photography students.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

PHOT 235 Advanced Black and White Photography

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Advisory: PHOT 135 with a Grade of "C" or better, or equivalent

This course concentrates on advanced theory and practice of black and white (B&W) photography including professional applications, specialized processes, and mastery of darkroom skills with an emphasis on individual expression. Topics include advanced printing techniques, film, paper types, toning, archival processing, matting and presentation, digital inkjet printing, and exhibition. This course is designed for advanced photography students.

FT; AA/AS; CSU.

PHOT 243 Advanced Digital Photography

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: PHOT 143 with a Grade of "C" or better, or equivalent

This course enhances the skills obtained in an introductory course. Students explore advanced methods and processes involved in digital image acquisition, optimization, and output. Topics include high dynamic range (HDR), enhanced depth of field imaging / focus stacking, single and multi-row stitching for increased resolution, and shooting tethered, both in studio and on location. This course is designed for advanced photography students with a solid foundation in basic digital acquisition and image editing.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

PHOT 245 Landscape and Nature Photography

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Advisory: PHOT 100 with a Grade of "C" or better, or equivalent or PHOT 105 with a Grade of "C" or better, or equivalent or PHOT 143 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHOT 265C

This course explores the application of film and digital photography in the natural outdoor setting. From images of the "Grand Landscape" to details and abstracts drawn from nature, the class studies how light, exposure, composition, concepts of isolation and context, color theory, and various camera shooting techniques affect the final image. Students also analyze the works of well-known landscape and nature photographers, both historical and contemporary. The class is designed for intermediate and advanced level photo students with basic film or digital skills.

FT; AA/AS; CSU.

PHOT 250 Fashion Photography

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Advisory: PHOT 201A with a Grade of "C" or better, or equivalent or PHOT 220 with a Grade of "C" or better, or equivalent

This advanced course is a hands-on study of fashion photography. Topics include the assembling a photographic team, creating promotional collateral, and preparing a portfolio for use in the field. Emphasis is placed on the use of photographic equipment and lighting techniques specific to the creation of professional photographs suitable for publication in fashion magazines and advertisements. This course is designed for advanced photography students or photographers currently working in the field.

FT; AA/AS; CSU.

PHOT 257 Wedding and Event Photography

16-18 hours lecture/1 hour lab; 2 units

Grading: Letter Grade or Pass/No Pass

Advisory: PHOT 143 with a Grade of "C" or better, or equivalent or PHOT 180 with a Grade of "C" or better, or equivalent or PHOT 201A with a Grade of "C" or better, or equivalent

This course covers the techniques, equipment, and approaches used by wedding and event photographers. Emphasis is placed on "must have" shots, the use of assistants, digital equipment, check-lists, and working with clients. This course is intended for advanced-level photography students.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

PHOT 259A Photographic Portfolio I

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: PHOT 100 with a Grade of "C" or better, or equivalent or PHOT 143 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHOT 265B or PHOT 259. This course covers the design, fabrication, editing, sequencing, assembly, and presentations of portfolios of work for photography students planning to sell their photographic services or products. Art photographers seeking to show their work in galleries or museums also benefit from this course. This course is designed for intermediate and advanced students to create or update their portfolios.

FT; AA/AS; CSU.

PHOT 259B Photographic Portfolio II

32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: PHOT 259A with a Grade of "C" or better, or equivalent

This course is designed for photography students who want to continue the study of photographic portfolio creation at an intermediate portfolio level. Emphasis is placed on fine-tuning their portfolio for specific fine art or commercial job searches or a career change from commercial to fine art photography.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

PHOT 290 Independent Study in Photography

1-3 hours other; 1-3 units

Grading: Letter Grade Only

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is designed for students who wish to pursue special projects or studies in the discipline and is not intended to replace an existing course. A written contract with the instructor is required. This course is designed for students pursuing photography majors and anyone interested in photography industries.

FT; AA/AS.

PHYN-Physical Science

PHYN 100 Survey of Physical Science

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: Concurrent enrollment in: PHYN 101

This course is an introductory survey of the fundamental concepts of astronomy, geology, chemistry and physics. Emphasis is placed on the interrelationships among these disciplines and the ways in which the physical sciences affect modern life. This course is intended for students with a general interest in the physical sciences.

FT; AA/AS; CSU; UC.

PHYN 101 Survey of Physical Science Laboratory

1 hour lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Corequisite: Completion of or concurrent enrollment in: PHYN 100 with a Grade of "C" or better, or equivalent

This course introduces students to the physical science laboratory and is designed to demonstrate the fundamental concepts of astronomy, geology, chemistry, physics and/or the earth sciences. Emphasis is placed on scientific method, real-world application of the physical sciences and collaborative learning. This course is designed for all students interested in the physical sciences.

FT; AA/AS; CSU; UC.

PHYN 114 Weather and Climate

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is an introduction to weather and climate. Emphasis is placed on the principles of solar radiation and energy transfer, atmospheric structure and composition, cloud development, precipitation, atmospheric pressure, and winds. Topics include the origin and development of storms, the greenhouse effect, and Earth's changing climate. The scientific method is illustrated as it relates to analyzing meteorologic problems. This course is appropriate for students with an interest in weather and climate.

FT; AA/AS; CSU; UC.

PHYN 290 Independent Study

1-3 hours other; 1-3 units

Grading: Letter Grade or Pass/No Pass

Advisory: PHYN 100 with a Grade of "C" or better, or equivalent and PHYN 101 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is for students who wish to conduct additional research, a special project, or learning activities in the field of physical science. It is not intended to replace an existing course in the discipline. In this course students will have a written contract with their instructor for activities such as preparing problem analysis, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals.

PHYS-Physics

PHYS 100 Introductory Physics

48-54 hours lecture/1 hour lab; 4 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: Successful completion of Intermediate Algebra with a grade of C or better or appropriate placement based on California Title 5 regulations. This course is designed for transfer-level students or for those wanting to acquire basic knowledge in physics with a minimum preparation in mathematics. A comprehensive coverage of subject matter in physics is presented, including mechanics, wave motions, thermodynamics, optics, electromagnetism, and atomic and nuclear physics. Emphasis is on the conceptual aspects, including explanation of natural phenomena. Concepts are reinforced through laboratory work.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

PHYS 125 General Physics

64-72 hours lecture/1 hour lab; 5 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: MATH 104 with a Grade of "C" or better, or equivalent or MATH 116 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for Physics 120A, Physics 124A, Physics 125A, Physics 180A, Physics 181A or Physics 195

This course is an introductory survey of the concepts and principles of physics. Emphasis is placed on developing an understanding of the properties of matter, mechanics, heat, and sound. This course is intended for students taking liberal arts and/or pre-professional courses that do not require physics with calculus.

FT; AA/AS; CSU; UC; C-ID: PHYS 105.

PHYS 126 General Physics II

64-72 hours lecture/1 hour lab; 5 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: PHYS 125 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYS 120B, 124B, 125B, 181B, 195B or 196.

This second course in a two-part introductory survey explores the concepts and principles of physics. Topics include electricity, magnetism, light, and modern physics. This course is intended for students taking liberal arts and/or pre-professional courses that do not require physics with calculus.

FT; AA/AS; CSU; UC; C-ID: PHYS 110.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

PHYS 180A General Physics I

64-72 hours lecture; 4 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: MATH 121 with a Grade of "C" or better, or equivalent or MATH 150 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYS 120A and PHYS 125A or PHYS 124A.

This course is an introductory survey of the concepts and principles of physics. Emphasis is placed on developing an understanding of the properties of matter, mechanics, heat and sound in order to make calculations and solve fundamental physics problems. This course is designed for students interested in biological sciences.

FT; AA/AS; CSU; UC; C-ID: PHYS 105.

PHYS 180B General Physics II

64-72 hours lecture; 4 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: PHYS 180A with a Grade of "C" or better, or equivalent and MATH 121 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYS 120B and 125B or credit or concurrent enrollment in PHYS 124B.

This course is an introductory survey of the concepts and principles of physics. Emphasis is placed on developing an understanding of the properties of electricity, magnetism, light and modern physics in order to make calculations and solve fundamental physics problems. This course is designed for students interested in biological sciences.

FT; AA/AS; CSU; UC; C-ID: PHYS 110.

PHYS 181A General Physics Laboratory I

1 hour lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Corequisite: Completion of or concurrent enrollment in: PHYS 180A with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYS 121A

This laboratory course is a hands-on study of the properties of matter, mechanics, heat and sound through laboratory experiments. This course is designed for students interested in the biological sciences.

FT; AA/AS; CSU; UC; C-ID: PHYS 105.

PHYS 181B General Physics Laboratory II

1 hour lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Prerequisite: PHYS 180A with a Grade of "C" or better, or equivalent

Corequisite: Completion of or concurrent enrollment in: PHYS 180B with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYS 121B

This laboratory course is a hands-on study of the principles of electricity, magnetism, light and modern physics through laboratory experiments. This course is designed for students interested in the biological sciences.

FT; AA/AS; CSU; UC; C-ID: PHYS 110.

PHYS 195 Mechanics

64-72 hours lecture/1 hour lab; 5 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: MATH 150 with a Grade of "C" or better, or equivalent

Advisory: Completion of or concurrent enrollment in: MATH 151 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PHYS 195A and 196A

This is the first of a three-semester calculus-based general physics sequence designed for scientists and engineers. Topics include linear kinematics, Newton's Laws, energy, rotational kinematics, rigid-body rotation, momentum, fluid mechanics, gravity, oscillatory motion, and thermodynamics. This course is intended for students majoring in the physical sciences or engineering.

FT; AA/AS; CSU; UC; C-ID: PHYS 205.

PHYS 196 Electricity and Magnetism

64-72 hours lecture/1 hour lab; 5 units

Grading: Letter Grade Only

Prerequisite: PHYS 195 with a Grade of "C" or better, or equivalent and MATH 151 with a Grade of "C" or better, or equivalent

Advisory: MATH 252 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for Phys 195B and 196B. This is the second course of a three-semester calculus-based general physics sequence. Topics include the basic principles and applications of electrostatics; magnetostatics; time-varying electric and magnetic phenomena; direct and alternating current circuits; elementary electronics; and electromagnetic waves. Emphasis is placed on the mathematical analysis of physical problems. Laboratory work on various aspects of electric and magnetic phenomena emphasizing direct current (DC) and alternating current (AC) circuits is included. This course is intended for students majoring in the physical sciences or engineering.

FT; AA/AS; CSU; UC; C-ID: PHYS 210.

PHYS 197 Waves, Optics and Modern Physics

64-72 hours lecture/1 hour lab; 5 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: PHYS 196 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for Physics 195C and 196C. This is the third semester of a three semester calculus-based Physics course designed for prospective scientists and engineers. Topics include the fundamental principles of physics of waves, the behavior of light, and an introduction to relativity, quantum physics and the atomic and nuclear properties of matter.

FT; AA/AS; CSU; UC; C-ID: PHYS 215.

POLI-Political Science

POLI 102 Introduction to American Government see POLS C1000 American Government and Politics

POLI 31 Social and Behavioral Sciences Statistics Support

16-18 hours lecture; 1 unit

Grading: Pass/No Pass Only

Corequisite: POLI 201

Limitation on Enrollment: This course is not open to students with previous credit for PSYC 31. This course provides additional hands-on experience in basic mathematical and statistical concepts. Students review key terms and definitions and practice foundational skills. This course is intended for students who require additional support to succeed in transfer-level Social and Behavioral Science statistics course.

FT.

POLI 101 Introduction to Political Science

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is an introduction to the field of political science. Emphasis is placed on the concepts and methodologies used in the study of political institutions, political participation, public opinion, and the international political system. Other topics include a survey of political theory and the history of American political ideology and culture. This course is intended for students majoring in Political Science and those interested in the field of political science.

FT; AA/AS; CSU; UC; C-ID: POLS 150.

POLI 103 Comparative Politics**48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for POLI 130

This course is an introduction to comparative politics. Emphasis is placed on analyses of various political systems using the fundamental concepts and methodologies of comparative politics. This course is designed for political science majors and anyone interested in comparative and/or international politics.

FT; AA/AS; CSU; UC; C-ID: POLS 130.**POLI 121 American Political Development****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This course provides an overview of American political development. Students engage in a historical analysis of the evolution of governmental institutions in the United States, and study how political ideas, political practices, and political actors (including ethnic groups, women, political parties, interest groups, and social movements) shape and are shaped by these institutional factors. This course is intended for transfer students, political science majors, or students interested in the American political system.

POLI 124 Power and Justice: An Introduction to Political Theory**48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This course is an exploration of the relationship between power and justice in modern society. Topics include various accounts of the meaning of power and justice, how political institutions harness power, and the ways in which political power can both impede and advance justice. Materials include classic and contemporary texts, films, and literature. This course is intended for political science majors, transfer students, and students interested in these topics.

POLI 140 Contemporary International Politics**48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This course is a study of world politics including the various approaches to international relations and international political economy. Emphasis is placed on the roles of nationalism, nation-states, transnationalism and international organizations in the making of contemporary world politics as well as on issues of national security, power and diplomacy, economic competition, international law and the environment. This course is intended for students majoring in political science or anyone with an interest in world politics.

FT; AA/AS; CSU; UC; C-ID: POLS 140.**POLI 201 Elementary Statistics for Political Science****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** Successful completion of Intermediate Algebra with a grade of C or better or appropriate placement based on California Title 5 regulations.**Advisory:** ENGL 101 with a Grade of "C" or better, or equivalent

This is an introductory course on statistical methods for political and social sciences. Emphasis is placed on basic data analysis techniques as well as elementary statistical and probability concepts. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-square and t-tests; and application of technology for statistical analysis based on data from disciplines including business, social and behavioral sciences, life science, health science, and education. This course is designed for Political Science majors, other Social Sciences majors, and anyone interested in statistics.

FT; AA/AS; CSU; UC; C-ID: SOCI 125.**POLI 290 Independent Study****1-3 hours other; 1-3 units****Grading:** Letter Grade or Pass/No Pass**Limitation on Enrollment:** Obtain Permission Number from Instructor

This course is for students who wish to study special topics in political science. It is not intended to replace an existing course in the discipline. In this course students have a written contract with their instructor for activities such as: preparing problem analyses, engaging in primary research, preparing reports and meeting with the instructor at specific intervals.

For additional Political Science courses see POLI

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

**POLS C1000 American Government and Politics
48-54 hours lecture; 3 units**

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for POLI 102

Part 1 (Identical): This course is an introduction to government and politics in the United States and California. Students examine the constitutions, structure, and operation of governing institutions, civil liberties and civil rights, political behaviors, political issues, and public policy using political science theory and methodology. Part 2 (Local): This course is intended for transfer students, political science majors, or students interested in American government. (Formerly POLI 102).

FT; AA/AS; CSU; UC; C-ID: POLS 110.

PSYC-Psychology

PSYC 101 General Psychology has been renumbered to PSYC C1000 Introduction to Psychology

**PSYC 31 Social and Behavioral Sciences Statistics
Support**

16-18 hours lecture; 1 unit

Grading: Letter Grade Only

Corequisite: PSYC 258

Limitation on Enrollment: This course is not open to students with previous credit for POLI 31
This course provides additional hands-on experience in basic mathematical and statistical concepts. Students review key terms and definitions and practice foundational skills. This course is intended for students who require additional support to succeed in transfer-level Social and Behavioral Science statistics course.

FT.

**PSYC 111 Psychological/Social Aspects of
Aging, Death, and Dying**
48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a study of the psychological, physiological and social factors influencing behavior throughout the aging process, including the aspects of death and dying. This course is intended for students majoring in psychology and for all students interested in the psychology of aging.

FT; AA/AS; CSU; UC.

PSYC 130 Introduction to Community Psychology
48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a study of community psychology. Emphasis is placed on the history and role of community psychology in the broader field of psychology. Students apply the key perspectives and fundamentals of the field to case studies and current issues in the community. This course is designed for psychology majors and students pursuing career paths in counseling, public, mental health, and human services.

FT; AA/AS; CSU.

PSYC 135 Marriage and Family Relations
48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a study of the behaviors related to courtship, engagement, marriage, and family life. Emphasis is placed on the historical, cross-cultural, and social perspectives of families. Topics include interpersonal communication, economic management, and sexuality as they relate to the family. This course is intended for psychology and child development majors as well as all students interested in the psychology of interpersonal communication.

FT; AA/AS; CSU; UC.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

PSYC 135 Marriage and Family Relations

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a study of the behaviors related to courtship, engagement, marriage, and family life. Emphasis is placed on the historical, cross-cultural, and social perspectives of families. Topics include interpersonal communication, economic management, and sexuality as they relate to the family. This course is intended for psychology and child development majors as well as all students interested in the psychology of interpersonal communication.

FT; AA/AS; CSU; UC.

PSYC 137 Human Sexual Behavior

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a study of the psychological, social, and physiological dimensions of human sexual behavior. Emphasis is placed on the diversity of human sexual development and current research. This course is designed for psychology majors and all students interested in human sexual behavior and related issues.

FT; AA/AS; CSU; UC.

PSYC 155 Introduction to Personality

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a survey of the fundamental personality theories. Emphasis is placed on the personal life experiences of each of the major personality theorists, their research and assessment methods, and applications of their theories. This course is designed for psychology majors and anyone seeking a stronger understanding of psychological theory.

FT; AA/AS; CSU; UC.

PSYC 161 Introduction to Counseling

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is an introductory study of the history and complexity of the counseling relationship. Emphasis is placed on the skills required to be an effective counselor. Topics include various counseling approaches and settings as well as related legal and ethical issues. This course is intended for psychology majors and anyone interested in the therapeutic aspects of counseling psychology.

FT; AA/AS; CSU.

PSYC 165 Theories of Consciousness

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course explores various theoretical approaches to the mind-body problem, as well as a broad range of different states of consciousness, including normal waking consciousness, daydreaming, sleeping, dreaming, hypnosis, meditation, and psychedelic drug states. States of consciousness are considered by examining both behavioral experiences as well as neural correlates of those states, including case studies of brain-injured patients and neuroimaging of normal participants in different states of consciousness. This course is intended for all students interested in psychology and/or theories of consciousness.

FT; AA/AS; CSU.

PSYC 166 Introduction to Social Psychology

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

Social psychology examines how individuals are influenced by their social environment. Special attention is given to social cognition and perception, self-justification, conformity, group dynamics, prejudice, aggression, prosocial behavior and applied social psychology. Emphasis will be placed on developing critical and integrative ways of thinking about theory and research in social psychology. This course is for anyone who is interested in the subject of social psychology.

FT; AA/AS; CSU; UC; C-ID: PSY 170.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

PSYC 201 Academic and Career Opportunities in Psychology

16-18 hours lecture; 1 unit

Grading: Pass/No Pass Only

Prerequisite: PSYC 101 with a Grade of "C" or better, or equivalent

Advisory: 30 units of college course work

This course is a study of career options in the field of Psychology. Emphasis is placed on the identification of career-related strengths and interests and information on post-baccalaureate options in psychology and related fields. This course is designed for students interested in majoring in psychology.

FT; AA/AS; CSU.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

PSYC 211 Learning

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: PSYC 101 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for PSYC 210

This course is a study of the basic principles and research in animal and human learning. Topics include scientific versus nonscientific approaches to behavior studies, operant and respondent conditioning, observational and cognitive learning, and motivation as related to self-control. This course is designed for students majoring in psychology or interested in the field.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

PSYC 230 Psychology of Lifespan Development

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: PSYC 101 with a Grade of "C" or better, or equivalent

This course is a study of the psychological development of humans in all their sociocultural diversity from conception to death. Emphasis is placed on the major theoretical paradigms related to growth and change and the variety of factors that shape similarities and differences in life. This course is intended for students majoring in psychology.

FT; AA/AS; CSU; UC.

PSYC 245 Abnormal Psychology

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a comprehensive survey of recognized patterns of abnormal behavior. Emphasis is placed on the theoretical models as they relate to assessment, diagnoses, etiology, treatment, and prognosis of recognized disorders. Topics also include legal and ethical issues related to abnormal psychology. This course is designed for psychology majors and all students interested in abnormal psychology.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

PSYC 255 Introduction to Psychological Research

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: PSYC 101 with a Grade of "C" or better, or equivalent

PSYC 258 with a Grade of "C" or better, or equivalent
MATH 119 with a Grade of "C" or better, or equivalent
BIOL 200 with a Grade of "C" or better, or equivalent
This course is an introduction to scientific methodology in psychology. Emphasis is placed on descriptive, experimental, and applied research. Students use the American Psychological Association writing style for empirical report writing. This course is intended for psychology majors and majors with components of the research process.

FT; AA/AS; CSU; UC; C-ID: PSY 200.

PSYC 258 Behavioral Science Statistics

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: Successful completion of Intermediate Algebra with a grade of C or better or appropriate placement Milestone M40 or M50 based on California Title 5 regulations. Students with Milestone M30 must enroll in LCOM 258X (PSYC 258 and PSYC 31 Learning Community).

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is an introductory study of statistics for the behavioral sciences. Emphasis is placed on acquainting students with the concepts underlying statistical methods and research approaches; basic statistical analyses; and principles. Topics include data collection; descriptive and inferential statistics; sampling distributions; measures of central tendency, dispersion, relative standing, and relationship; probability; prediction; hypothesis evaluation; and tests for treatment effects. This course is intended for students majoring in the behavioral/social sciences or those interested in applied statistics.

FT; AA/AS; CSU; UC; C-ID: SOCI 125, PSYC 258 + 259 = MATH 110, PSYC 258 + 259R = MATH 110.

PSYC 259 Behavioral Science Statistics Laboratory 1 hour lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Corequisite: Completion of or concurrent enrollment in: PSYC 258 with a Grade of "C" or better, or equivalent

This laboratory course offers students practice in using statistical analysis software for the behavioral sciences. Emphasis is placed on data entry, graphing, hypothesis testing and statistical analyses. This course is intended for psychology and other behavioral science majors and anyone interested in using statistical analysis software for research purposes.

FT; AA/AS; CSU; C-ID: PSYC 258 + 259 = MATH 110.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

PSYC 259 Behavioral Science Statistics Laboratory 1 hour lab; 1 unit

Grading: Letter Grade or Pass/No Pass

Corequisite: Completion of or concurrent enrollment in: PSYC 258 with a Grade of "C" or better, or equivalent

This laboratory course offers students practice in using statistical analysis software for the behavioral sciences. Emphasis is placed on data entry, graphing, hypothesis testing and statistical analyses. This course is intended for psychology and other behavioral science majors and anyone interested in using statistical analysis software for research purposes.

FT; AA/AS; CSU; C-ID: PSYC 258 + 259 = MATH 110.

PSYC 260 Introduction to Physiological Psychology

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: PSYC 101 with a Grade of "C" or better, or equivalent

This course is a study of the biological bases of behavioral and cognitive processes. Emphasis is placed on neuroanatomy and neurophysiology as a means for understanding how basic neurological processes impact perception, movement, consciousness, sexual behaviors, ingestive behaviors, emotions, learning, memory, communication, and neurological and psychological disorders. This course is designed for students majoring in psychology and all students interested in physiological psychology.

FT; AA/AS; CSU; UC; C-ID: PSY 150.

PSYC 276 Field Work in Psychological Services 32-36 hours lecture/1 hour other; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This supervised field experience course enables the student to be of service to the community while learning about the function of human care services. Emphasis is placed on providing students with the chance to explore the varied career choices in the field of psychology as well as on practical experience with basic helping skills in current social service situations. This course is intended for students who want to work with people in human care services.

FT; AA/AS; CSU.

PSYC 283 Introduction to Cognitive Psychology**48-54 hours lecture; 3 units****Grading:** Letter Grade Only**Prerequisite:** PSYC 101 with a Grade of "C" or better, or equivalent

This course is a study of the theory and research on cognitive processes. Emphasis is placed on perception, attention, learning, memory, language, thought, visual cognition, problem solving, and applications of cognitive psychology. This course is intended for students majoring in psychology and all students interested in cognitive processes.

FT; AA/AS; CSU; UC.**PSYC 290 Independent Study****1-3 hours other; 1-3 units****Grading:** Letter Grade or Pass/No Pass**Limitation on Enrollment:** Obtain Permission Number from Instructor

This course is for students who wish to conduct additional research, a special project, or learning activities in the field of psychology. It is not intended to replace an existing course in the discipline. In this course students will have a written contract with their instructor for activities such as: preparing problem analysis, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals.

FT; AA/AS; CSU.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

PSYC C1000 Introduction to Psychology**48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Advisory:** ENGL C1000 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for PSYC 101.

Part 1 (CCN Identical): This course is an introduction to psychology, which is the study of the mind and behavior. Students focus on theories and concepts of biological, cognitive, developmental, environmental, social, and cultural influences; their applications; and their research foundations. Part 2 (Local): This course is designed for students planning to take advanced courses in social and behavioral sciences or anyone interested in learning more about the mind, behavior, and mental health. (Formerly PSYC 101).

FT; AA/AS; CSU; UC; C-ID: PSY 110.

REAL-Real Estate

RUSS - Russian

SDGE-San Diego Gas and Electric

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

SDGE 90 Electric Lineman IA

80-90 hours lecture; 5 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for SDGE 302 or ELCT 190
This course provides an orientation in the power distribution and line construction industry. Basic electrical principles and safety on the job are emphasized. Topics include basic mathematical computations, including trigonometry fundamentals, electron theory, and the fundamentals of magnetism. Students combine electrical theory with laboratory and practical applications in the course of study. This course is designed for students interested in the electric power trade and those pursuing careers in the field, including utility, military, and commercial areas.

FT; AA/AS.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

SDGE 91 Electric Lineman IB

80-90 hours lecture; 5 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for SDGE 304 or ELCT 191
This course involves the study of the power distribution and line construction industry. Topics include methods of producing electricity, alternating current (A.C.) and direct current (D.C.) meters, and circuitry and electric batteries. Students also learn about Ohm's Law, Kirchhoff's Law, and electromagnetic induction. This course is designed for students interested in the electric power trade and those pursuing careers in the field, including utility, military, and commercial areas.

FT; AA/AS.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

SDGE 92 Electric Lineman IIA

80-90 hours lecture; 5 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for SDGE 310 or ELCT 192
This course is a study of alternating current circuits, alternating current (A.C.) and direct current (D.C.) motors and generators, pole and overhead construction, and transformers and voltage regulators. Topics include schematics, shunt and series capacitors, and safety issues outlined by the Occupational Safety and Health Act (OSHA). Calculating power used by electrical circuits is also covered. This course is designed for students interested in the electric power trade and those pursuing careers in the field, including utility, military, and commercial areas.

FT; AA/AS.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

SDGE 93 Electric Lineman IIB

80-90 hours lecture; 5 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for SDGE 312 or ELCT 193
This course covers state safety orders for line construction and maintenance, transmission and distribution systems, and conductors and electrical systems faults. Students also learn about short circuits, system protective concepts, and how to identify control circuits from wiring diagrams. This course is designed for students interested in the electric power trade and those pursuing careers in the field, including utility, military, and commercial areas.

FT; AA/AS.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

SDGE 94 Electric Lineman IIIA

80-90 hours lecture; 5 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for SDGE 320 or ELCT 194. This course covers advanced theory of electrical distribution lines and systems. Other topics include phasing, system groundings, substations, and the use of electrical instruments. Students also learn how to connect transformers in accordance with the state code. Usage of fusing tables and reference tables, including technical symbols are also covered. This course is designed for students interested in the electric power trade and those pursuing careers in the field, including utility, military, and commercial areas.

FT; AA/AS.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

SDGE 95 Electric Lineman IIIB

80-90 hours lecture; 5 units

Grading: Letter Grade Only

Limitation on Enrollment: This course is not open to students with previous credit for SDGE 322 or ELCT 195. This course is a continuation of advanced theory of electrical distribution lines and systems. Topics include the use of "hot sticks" and special equipment, repair and maintenance of poles and lines - both cold and energized, and safety practices and local/state requirements. Students are expected to master competencies, such as those included in elements of electricity, overhead pole and electrical line construction, safety codes and applications, electric power system, transformer and meter installations, and exploration of underground electrical distribution. This course is designed for students interested in the electric power trade and those pursuing careers in the field, including utility, military, and commercial areas.

FT; AA/AS.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

SDGE 302 Electric Lineman IA

80-90 hours lecture; 5 units

Grading: Letter Grade Only

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade. This course is not open to students with previous credit for ELCT 190 or SDGE 90. This course provides an orientation in the power distribution and line construction industry. Basic electrical principles and safety on the job are emphasized. Topics include basic mathematical computations, including trigonometry fundamentals, electron theory, and the fundamentals of magnetism. Students combine electrical theory with laboratory and practical applications in the course of study. This course is designed for students interested in the electric power trade and those pursuing careers in the field, including utility, military, and commercial areas.

FT; AA/AS.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

SDGE 304 Electric Lineman IB

80-90 hours lecture; 5 units

Grading: Letter Grade Only

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade. This course is not open to students with previous credit for ELCT 191 or SDGE 91. This course involves the study of the power distribution and line construction industry. Topics include methods of producing electricity, alternating current (A.C.) and direct current (D.C.) meters, and circuitry and electric batteries. Students also learn about Ohm's Law, Kirchhoff's Law, and electromagnetic induction. This course is designed for students interested in the electric power trade and those pursuing careers in the field, including utility, military, and commercial areas.

FT; AA/AS.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

SDGE 310 Electric Lineman IIA

80-90 hours lecture; 5 units

Grading: Letter Grade Only

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course is not open to students with previous credit for ELCT 192 or SDGE 92

This course is a study of alternating current circuits, alternating current (A.C.) and direct current (D.C.) motors and generators, pole and overhead construction, and transformers and voltage regulators. Topics include schematics, shunt and series capacitors, and safety issues outlined by the Occupational Safety and Health Act (OSHA). Calculating power used by electrical circuits is also covered. This course is designed for students interested in the electric power trade and those pursuing careers in the field, including utility, military, and commercial areas.

FT; AA/AS.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

SDGE 320 Electric Lineman IIIA

80-90 hours lecture; 5 units

Grading: Letter Grade Only

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course is not open to students with previous credit for ELCT 194 or SDGE 94

This course covers advanced theory of electrical distribution lines and systems. Other topics include phasing, system groundings, substations, and the use of electrical instruments. Students also learn how to connect transformers in accordance with the state code. Usage of fusing tables and reference tables, including technical symbols are also covered. This course is designed for students interested in the electric power trade and those pursuing careers in the field, including utility, military, and commercial areas.

FT; AA/AS.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

SDGE 312 Electric Lineman IIB

80-90 hours lecture; 5 units

Grading: Letter Grade Only

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course is not open to students with previous credit for ELCT 193 or SDGE 93

This course covers state safety orders for line construction and maintenance, transmission and distribution systems, and conductors and electrical systems faults. Students also learn about short circuits, system protective concepts, and how to identify control circuits from wiring diagrams. This course is designed for students interested in the electric power trade and those pursuing careers in the field, including utility, military, and commercial areas.

FT; AA/AS.

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

SDGE 322 Electric Lineman IIIB

80-90 hours lecture; 5 units

Grading: Letter Grade Only

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course is not open to students with previous credit for ELCT 195 or SDGE 95

This course is a continuation of advanced theory of electrical distribution lines and systems. Topics include the use of "hot sticks" and special equipment, repair and maintenance of poles and lines - both cold and energized, and safety practices and local/state requirements. Students are expected to master competencies, such as those included in elements of electricity, overhead pole and electrical line construction, safety codes and applications, electric power system, transformer and meter installations, and exploration of underground electrical distribution. This course is designed for students interested in the electric power trade and those pursuing careers in the field, including utility, military, and commercial areas.

FT; AA/AS.

SDGE 330 Substation Electrician IIIA

80-90 hours lecture; 5 units

Grading: Letter Grade Only

This course is a continuation of advanced theory of electrical substations that includes a practical overview of electrical apparatus designed for third-year Electrician Apprentices. Topics include descriptions and examples of different types of apparatus and their functions, where they are encountered, under what circumstance, typical maintenance, and typical approaches to the equipment. Students will be expected to pass a final examination.

FT; AA/AS.

SDGE 332 San Diego Gas and Electric Substation Electrician IIIB

80-90 hours lecture; 5 units

Grading: Letter Grade Only

This course is a continuation of advanced theory of electrical substations that includes a practical overview of electrical and structural drawings designed for third-year Electrician Apprentices. Topics include descriptions and examples of different types of drawings and their functions, wiring nomenclature, IEEE device numbers and functions, relay functions, alternating current (AC) circuit symbols, direct current (DC) circuit symbols, physical layouts, grounding, foundations, and steel. Students will be expected to master the reading and appropriate use of drawings in various substation situations.

FT; AA/AS.

SOCO-Sociology

SOCO 101 Principles of Sociology

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

This course is an introductory study of the basic concepts, theoretical approaches, and methods of sociology. Topics include the scientific study of social interaction, structure, and organization; groups; socialization and the self; social stratification; culture and diversity; social change; and global dynamics. Topics and examples emphasize present-day America, including cross-cultural and multicultural analysis. This general education course is intended for students interested in the social sciences and those considering careers in counseling, teaching, social work or nursing.

FT; AA/AS; CSU; UC; C-ID: SOCI 110.

SOCO 110 Contemporary Social Problems

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course requires students to identify and analyze present day social problems in the United States, with emphasis on sociological factors involved, including cross-cultural and multicultural analysis. Students use scientific methods and criteria for evaluating proposals for social betterment. This course is useful for students pursuing careers in criminology, counseling, education, law, and medicine.

FT; AA/AS; CSU; UC; C-ID: SOCI 115.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

SOCO 125 Sociology of the Family

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

This course is a study of the structures and functions of the family as a social, cultural and historical institution in the United States and throughout the world. Emphasis is placed on an analysis of the family's relationship to economic structures, political institutions and belief systems. Topics include definitions of family, gender roles and family stability. This course is intended for students majoring in sociology, psychology, social work and counseling as well as any student interested in the study of the family as an institution.

FT; AA/AS; CSU; UC; C-ID: SOCI 130.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

SOCO 145 Health and Society

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: Completion of or concurrent enrollment in: ENGL 101 with a Grade of "C" or better, or equivalent

This course presents a broad introduction of sociological concepts and ideas related to the study of health and illness in the United States (US). Emphasis is placed on the relationship between social forces and health, the cultural meanings associated with health and illness, and the social behavior of health care professionals and patients. Further focus includes the political and economic consequences and effects surrounding health care and the structure of social institutions that constitute the health care industry. In addition, race, gender, age, social class, sexuality, and disability are a focal point of analysis throughout this course as these identities influence the experience of health and illness. This course is designed for sociology majors and/or those interested in better understanding health and illness as social experiences in the US.

FT; AA/AS; CSU; UC.

SOCO 150 Sociology of Latinos/Latinas

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is an in-depth sociological examination of Latino communities in the United States. Topics include family structure, gender roles, and sexuality; religion; economics; racism; social movements; U.S./Mexico border issues and immigration policy; and education. Emphasis is placed on social interactions, the politics of identity formation, and social processes impacting the status of U.S. Latinos. This course is intended for sociology majors or any student interested in the social sciences.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

SOCO 201 Advanced Principles of Sociology

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent

This course is a study of the origins of sociological theory. Principal contributors are presented and examined in detail, with special attention to their model of human action, the nature of empirical fact, and implications for public policy. With an emphasis on critical analyses of science and the humanities, this course is designed to provide a standard theory foundation for transfer students majoring in the arts, sciences, or social sciences.

SOCO 207 Introduction to Race and Ethnicity

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course is a sociological analysis of race, ethnicity, racism, and discrimination. Students examine the cultural, political, and economic practices and institutions that support or challenge racism and discrimination and racial and ethnic inequalities. Other topics include the historical and contemporary patterns of interaction between various racial and ethnic groups. This course is intended for students majoring in sociology or ethnic studies, or those interested in race and ethnicity.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

SOCO 220 Introduction to Research Methods in Sociology

48-54 hours lecture; 3 units

Grading: Letter Grade Only

Prerequisite: SOCO 101 with a Grade of "C" or better, or equivalent

Advisory: PSYC 258 with a Grade of "C" or better, or equivalent

This course introduces students to the fundamental elements of sociological research. Topics include the role of theory in research, issues of ethics, key steps of research design, a review of data collection methods, quantitative and qualitative analyses, and development of a research report. This course is intended for students majoring in Sociology or other fields of social science.

FT; AA/AS; CSU; UC; C-ID: SOCI 120.

SOCO 223 Globalization and Social Change

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: SOCO 101 with a Grade of "C" or better, or equivalent and ENGL 101 with a Grade of "C" or better, or equivalent

This course evaluates the social and political changes brought on by globalization among industrialized, industrializing, and underdeveloped nations. It presents arguments and theories for and against globalization supplemented with empirical examples. The course is useful for those considering careers in law, politics, business, teaching, or non-profit organizations dealing with human rights issues, political advocacy, or international affairs.

FT; AA/AS; CSU; UC.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

SOCO 290 Independent Study

1-3 hours other; 1-3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is designed for students who wish to conduct additional research, a special project, or learning activities in the field of sociology. It is not intended to replace an existing course in the discipline. In this course students have a written contract with their instructor for activities such as: preparing problem analyses, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals.

SOLR-Solar

SOLR 349 Solar Work Experience

4 hours other; 4 units

Grading: Pass/No Pass Only

Limitation on Enrollment: Student must be a state registered apprentice in this trade and concurrently enrolled in a related apprenticeship class.

One unit of credit may be earned for every 54 hours of work experience. A maximum of fourteen credit hours for all work experience subject areas may be earned during one enrollment period.

FT; AA/AS.

SPAN-Spanish

SPAN 101 First Course in Spanish**80-90 hours lecture; 5 units****Grading:** Letter Grade or Pass/No Pass**Limitation on Enrollment:** This course is not open to students with previous credit for or concurrent enrollment in SPAN 100

This interactive course introduces students to the Spanish language and the cultures of the Spanish speaking world. Students use basic Spanish language structures and vocabulary to speak, listen, read, and write in cultural context at the novice level. This course is intended for all students interested in gaining proficiency in the Spanish language for academic purposes and/or personal enrichment.

FT; AA/AS; CSU; UC; C-ID: SPAN 100.**SPAN 102 Second Course in Spanish****80-90 hours lecture; 5 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** SPAN 101 with a Grade of "C" or better, or equivalent or two years of high school Spanish with a grade of 'C' or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for or concurrent enrollment in SPAN 100.

This interactive course is the second in the Spanish language series. Students use increasingly complex Spanish language structures to speak, listen, read, and write in cultural context at the novice-high level. This course is intended for all students interested in gaining proficiency in the Spanish language for academic purposes and/or personal enrichment

FT; AA/AS; CSU; UC; C-ID: SPAN 110.**SPAN 201 Third Course in Spanish****80-90 hours lecture; 5 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** SPAN 102 with a Grade of "C" or better, or equivalent or three years of high school Spanish
This interactive course is the third in the Spanish language series. Students use increasingly complex language structures and vocabulary to develop the functional competence required to communicate beyond survival needs and to discuss and express opinions on abstract topics related to the arts, lifestyle, linguistics, and literature at the intermediate level. This course is intended for students majoring in Spanish and anyone interested in gaining proficiency in the Spanish language for academic purposes and/or personal enrichment.**FT; AA/AS; CSU; UC; C-ID: SPAN 200.****SPAN 202 Fourth Course in Spanish****80-90 hours lecture; 5 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** SPAN 201 with a Grade of "C" or better, or equivalent**Limitation on Enrollment:** This course is not open to students with previous credit for SPAN 200
This interactive course is the fourth in the Spanish language series. Emphasis is placed on the use of complex language structures and vocabulary to communicate beyond casual conversation and to express opinions and offer hypothetical possibilities related to abstract issues and plans, cultural norms and values, and interpersonal relationships. Students are encouraged to think critically by analyzing linguistic structures and making cross cultural comparisons related to the Spanish speaking world. This course is intended for students majoring in Spanish and anyone interested in gaining proficiency in the Spanish language for academic purposes and/or personal enrichment.**FT; AA/AS; CSU; UC; C-ID: SPAN 210.****SPAN 210 Conversation and Composition Spanish I****I****48-54 hours lecture; 3 units****Grading:** Letter Grade or Pass/No Pass**Prerequisite:** SPAN 102 with a Grade of "C" or better, or equivalent

This course further develops oral comprehension and fluency as well as written communication at a mid-intermediate level in Spanish through culturally relevant materials. Students increase vocabulary, dramatize everyday topics of conversation, interpret and describe materials, and compare and contrast Latin American and Spanish cultures with U.S. culture both orally and in writing. Writing strategies are emphasized and literature is introduced. This course is intended for students who want to enhance their skills in the Spanish language.

FT; AA/AS; CSU; UC.

SPAN 211 Conversation and Composition Spanish II

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: SPAN 210 with a Grade of "C" or better, or equivalent

This course further develops oral comprehension and fluency as well as written communication at an advanced-intermediate level in Spanish through culturally relevant materials. Students further increase vocabulary; dramatize everyday topics of conversation; interpret and describe materials; and compare and contrast Latin American and Spanish cultures with U.S. culture both orally and in writing. Pre-reading strategies introduced in the prerequisite course are used as a basis upon which to build course emphasis in reading. In addition, more literature is introduced. This course is intended for students who want to further enhance their skills in Spanish.

FT; AA/AS; CSU; UC.

SPAN 215 Spanish for Spanish Speakers I

80-90 hours lecture; 5 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: This course is not open to students with previous credit for SPAN 201

This course is designed for students who are fluent in spoken, informal Spanish and who need to improve their writing, reading, and grammar skills. Emphasis is placed on formal, written communication skills in Spanish at the intermediate level, and the study of Hispanic and Chicano culture through contemporary reading materials. The course focuses on language challenges particular to Spanish speakers such as orthography, the inappropriate mix of English and Spanish, and contrasts between standard Spanish and regional variations. This course is conducted entirely in Spanish.

FT; AA/AS; CSU; UC; C-ID: SPAN 220.

SPAN 216 Spanish for Spanish Speakers II

80-90 hours lecture; 5 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: SPAN 215 with a Grade of "C" or better, or equivalent

Limitation on Enrollment: This course is not open to students with previous credit for SPAN 202, nor to Spanish speakers who have received the equivalent of a high school degree in a Spanish speaking country.

This course is the second of a two-course sequence in Spanish for Spanish Speakers. It is designed for students who are fluent in spoken, informal Spanish and who need to improve their writing, reading, and grammar skills. It furthers the mastery of formal, written communication in Spanish at the intermediate-advanced level, while integrating instruction in Hispanic and Chicano culture through increased practice in intermediate-advanced level readings, relevant, and authentic materials. The course focuses on language challenges that Spanish speakers still encounter at intermediate-advanced level, such as orthography, the inappropriate mix of English and Spanish in specific contexts, and standard Spanish as contrasted with regional variations. This course is conducted entirely in Spanish.

FT; AA/AS; CSU; UC; C-ID: SPAN 230.

SPAN 290 Independent Study in Spanish

1-3 hours other; 1-3 units

Grading: Letter Grade or Pass/No Pass

Limitation on Enrollment: Obtain Permission Number from Instructor

This course is designed for intermediate students who wish to work on special projects and to further develop their communication skills in Spanish. It is not intended to replace an existing course in the discipline. In this course students have a written contract with their instructor for activities such as: preparing problem analyses, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals.

STAT-Statistics

For additional Mathematics courses see [MATH](#)

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

STAT C1000 Introduction to Statistics

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Prerequisite: Placement as determined by the college's multiple measures assessment process or completion of a course taught at or above the level of intermediate algebra. Students with a Milestone M30 must enroll in STAT C1000X (Statistics C1000 and Mathematics 15A learning community).

Limitation on Enrollment: This course is not open to students with previous credit for MATH 119

Part 1: This course is an introduction to statistical thinking and processes, including methods and concepts for discovery and decision-making using data. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-squared, and t-tests; and application of technology for statistical analysis including the interpretation of the relevance of the statistical findings. Students apply methods and processes to applications using data from a broad range of disciplines. Part 2 (Local): This is a clarification of information listed in Part 1. This course covers descriptive and inferential statistics. The descriptive portion analyzes data through graphs, measures of central tendency and dispersion. The inferential statistics portion covers statistical rules to compute basic probability, including binomial, normal, Chi-squares, and t-distributions. This course also covers estimation of population parameters, hypothesis testing, linear regression, correlation, and ANOVA. Emphasis is placed on applications of technology, using software packages, for statistical analysis and interpretation of statistical values based on data from disciplines including business, social sciences, psychology, life science, health science, and education. This course is intended for transfer students interested in statistical analysis. (Formerly MATH 119).

FT; AA/AS; CSU; UC; C-ID: MATH 110.

SUST-Sustainability

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

SUST 101 Introduction to Sustainability

48-54 hours lecture; 3 units

Grading: Letter Grade or Pass/No Pass

Advisory: ENGL 101 with a Grade of "C" or better, or equivalent or ENGL 105 with a Grade of "C" or better, or equivalent

This course introduces students to an interdisciplinary examination of the theory and practices of sustainability. Sustainability can be defined as meeting the needs of the present generation without compromising the ability of future generations to meet their own needs. Topics include restoring ecological and environmental health, creating just economic systems, and ensuring social justice. This course is intended for students interested in sustainability, environmental ethics, and peace studies.

FT; AA/AS; CSU; UC.

TROL-Trolley, San Diego

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

TROL 301 San Diego Trolley Light Rail Vehicle I

24-27 hours lecture/0.5 hours lab; 2 units

Grading: Letter Grade Only

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course is an introduction to the San Diego Trolley Light Rail Vehicle apprenticeship program. Topics include organization of the company, on-the-job safety, use of tools and test equipment, lubrication and maintenance, and vehicle layout and component identification.

FT; AA/AS.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

TROL 302 San Diego Trolley Light Rail Vehicle II

16-18 hours lecture/0.5 hours lab; 1.5 units

Grading: Letter Grade Only

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course covers beginning levels of maintenance and inspection of Light Rail Vehicles in the San Diego Trolley Light Rail Vehicle apprenticeship program. Topics include mechanical concepts, planned and unplanned maintenance, component inspections, and use of support equipment.

FT; AA/AS.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

TROL 303 San Diego Trolley Light Rail Vehicle III
32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course covers intermediate levels of maintenance and inspection of Light Rail Vehicles in the San Diego Trolley Light Rail Vehicle apprenticeship program. Topics include electrical theory, electrical measurement, schematic drawings, control systems, and system troubleshooting.

FT; AA/AS.

A version of this course that was created after this version is set to begin before this course. This may cause the wrong version of the course to appear in the catalog.

TROL 304 San Diego Trolley Light Rail Vehicle IV
32-36 hours lecture/1 hour lab; 3 units

Grading: Letter Grade Only

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course covers advanced levels of maintenance and inspection of Light Rail Vehicles in the San Diego Trolley Light Rail Vehicle apprenticeship program. Topics include electrical component and circuit theory, number systems, logic, small to large scale circuit integration, and analysis and troubleshooting of vehicle controls.

FT; AA/AS.

WORK-Work Experience

This course is currently in process. It has the status of Approved and is scheduled to be included in this catalog.

WORK 270 Occupational Work Experience

1-4 hours other; 1-4 units

Grading: Letter Grade Only

Limitation on Enrollment: Obtain Permission Number-Work Exp. Coordinator

This course provides on-the-job learning experiences for students employed in a job or internship related to an occupational major. Students develop workplace competencies, critical thinking skills, and problem solving abilities through the creation and achievement of job-related behavioral learning objectives. One unit of credit may be earned for every 54 hours of work experience. A maximum of fourteen credit hours for all work experience subject areas may be earned during one enrollment period. This course is intended for students majoring or interested in an occupational field of study.

San Diego City College Community

San Diego City College Faculty/ Administrators

ACEDO, Christopher

Associate Professor, Radio/TV

ADEN, Ahmed (Rasheed)

Associate Professor, Counseling
B.A., M.S., San Diego State
University

AKERS-CHACON, Justin

Professor, Chicano Studies
B.A., M.A., Ed.D., San Diego State
University Teaching Credential,
University of Phoenix

AL ANI, Mohammed

Assistant Professor, Business
Studies
B.S., Tufts University
M.B.A., San Diego State University

- ALEXANDER, Paul**
Professor, English
A.A., San Diego City College
B.A., M.A., San Diego State University
- ALSORAIMI-ESPIRITU, Mona**
Associate Professor, English
B.A., San Diego State University
M.A., Georgia State University
- ANZURES, Marco**
Assistant Professor, PLC
Coordinator
B.A., University of California, Los Angeles
M.A., Pennsylvania Western University
- ARMSTRONG, Dometrives**
Associate Dean, Nursing Education
A.S.N., San Diego City College
B.S.N., University of Phoenix
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San Diego City College Faculty/Administrators Emeritus

Abiña, Armando, Administrator
Alexander, Roberta, Faculty
Andersen, Elizabeth, Faculty
Atherton, Jeanne, Administrator
Baldwin, Harry L. Jr., Faculty
Barnes, Randy, Administrator

Battad, Hestor, Faculty
Bauer, John, Faculty
Bell, Jacklyn, Administrator
Berg, Deborah Jo, Faculty
Berkley, James, E., Faculty
Boghos, Moheb E., Faculty

Boley, Rita A., Faculty
Bollinger, John C., Faculty
Bouscaren, Stephen J., Faculty
Brady, Leroy, Faculty
Brashars, Janet, Faculty
Brill, Jack A., Faculty

Brown, Larry J., Administrator
 Brown, Michael, Administrator
 Burd, Marvin L., Administrator
 Burgess, Terrance, Administrator
 Burton, James M., Faculty
 Bush, Louis F., Faculty
 Butler, Winston, Administrator
 Cary, Nancy, Faculty
 Castenada, Laura, Faculty
 Ceccacci, Vince, Faculty
 Czerwonka, Kim, Faculty
 Cheung, Cecilia Y.K., Faculty
 Clancy, John, Administrator
 Clark, Ken A., Faculty
 Clowers, Myles, Faculty
 Colbert, Jim, Faculty
 Cooper, Sherry, Faculty
 Coppola, Joseph, Faculty
 Cordell, Dotti, Faculty
 Corona, Laurel, Faculty
 Costello, Joyce, Faculty
 Couch, John, Faculty
 Crabtree, Lyle Fred, Faculty
 Crispen, Nancy, Faculty
 Crowe, Alicia, Faculty
 Cydell, Alice H., Faculty
 Dailard, Doug, Faculty
 Dark, James, Administrator
 Davalos, Enrique, Faculty
 Davies, Thomas, Faculty
 Davis, Jerry, Administrator
 Dawes, Betty R., Faculty
 Deaton, Marilyn S., Faculty
 Decker, Mary, Administrator
 Dexheimer, Carol, Administrator
 Downs, Robert L., Faculty
 Dubon, Armando J., Faculty
 Duke, Joe W., Faculty
 Eichinger, David, Faculty
 Elias, Helen, Administrator
 Enright, Gwyn, Faculty
 Erreca, Lori, Administrator
 Escalante, Virginia, Faculty
 Escamilla, Augustine, Faculty
 Evans, James, Faculty
 Fenwick, Jerry, Faculty
 Finkel, Pamela, Faculty
 Flaherty, Bernard, Faculty
 Fontana, Susan, Faculty
 Forman, Lawrence, Faculty
 Forman, Sidney, Faculty
 Francis, Theresa, Faculty
 Fredericks, Nancy, Faculty
 Galas, James, Faculty
 Geddes, John, Faculty
 Gerald, Trudy, Administrator
 Gooden, Frances, Faculty
 Gosewisch, Vincent Robert, Faculty
 Gray, Ansel, Faculty/Administrator
 Gorumurthy, Ram, Faculty
 Halbeisen, Merla, Faculty
 Hale, Kris, Faculty
 Hammond, John, Faculty
 Hansen, Barbara, Faculty
 Hardison, James M., Faculty
 Harkness, Shirley, Faculty
 Harlow, Catherine, Faculty
 Harms, Marie-Louise Lind, Faculty
 Harris, Berta, Faculty
 Harron, Vince, Faculty
 Hayward, Peggy F., Administrator
 Helt, Nancy, Faculty
 Henderson, Charles B., Faculty
 Hendry, Willoene, Faculty
 Heredia, Gloria, Faculty
 Hicks, Barry, Faculty
 Hiel, Edwin Ramon, Faculty
 Hildebrand, John, Faculty
 Hock, Betty, Faculty
 Hoeschen, Robert, Faculty
 Howard, Dennis, Faculty
 Howell, Catherine, Faculty
 Hudlemeyer, Elsie B., Faculty
 Hunter, Jerry, Administrator
 Irwin, Alfred L., Faculty
 Jenkins, Marian B., Faculty
 Johnson, Anita, Faculty
 Julian, Fred, Faculty
 Kane, Herald, Faculty
 Kater, David, Faculty
 Katungi, Nathan, Faculty
 Kaye, Robert, Faculty
 Keeseey, Miriam, Faculty
 Kersey, Pamela, Faculty
 Kim, Yoonchung, Faculty
 Korsedal, Susan, Faculty
 Korski, Victor, Faculty
 Kosiba, Walter L., Faculty
 La Rosa, Frank, Faculty
 Lahijani, Roya, Faculty
 LaMuraglia, Rose, Administrator
 Lang, Curtis E., Faculty
 Leavitt, Daniel David, Faculty
 Leboffe, Michael J., Faculty
 Leiseth, Barbara, Faculty
 Lemons, Lemuel W., Faculty
 Leon, Sylvia, Faculty
 Leslie, Gary E., Faculty
 Lewis, Fred G., Faculty
 Lim, Patricia, Faculty
 Linder, Betty Joe, Administrator
 Liska, Paula, Faculty
 Lombardi, Jan, Faculty
 Long, James H., Faculty
 Lopez, Candice, Faculty
 Lopez, Catherine, Faculty
 Lynch, Donna, Faculty
 Lynch, Jeremiah, Faculty
 Lyon, Gloria, Faculty
 Lyons-Dailard, Cynthia, Faculty
 Macias, Cassie, Faculty
 MacRenato, Ternot, Faculty
 Maes-Erickson, Patsy, Faculty
 Mahoney, Pat, Faculty
 Manzoni, Ron, Administrator
 Margolin, Elias L., Faculty
 Markley, John, Faculty
 Martin, Fred, Faculty
 Martin, Sue, Faculty
 Mason, Barbara, Faculty
 Massa, Richard N., Administrator
 McCarty, Curt, Faculty
 McCommins, Patricia, Faculty
 McDowell, Madeline E., Faculty
 McGinnis, Kathy M., Faculty
 Medina, Tanya, Faculty
 Menchaca, Miguel, Faculty
 Meyers, Lorraine, Faculty
 Miller, Carl V., Faculty
 Molina, Jake, Faculty
 Morgan, Barbara, Faculty
 Morton, Cassie, Faculty
 Murugesan, Poovan, Faculty
 Nelson, H. J., Administrator
 Nimmo, Leslie, G., Faculty
 Nulton, James D., Faculty
 Oblya, Alex, Faculty
 Ocen-Odoge, Linda, Faculty
 Ortega, Veronica, Faculty
 Ottaviano, Pete, Administrator
 Owens, Donna, Faculty
 Peterson, Catherine Libert, Faculty
 Phillips, Sudabeh, Faculty
 Pludow, Julie, Faculty
 Pruitt, Robert, Faculty
 Rangel, Cruz, Faculty
 Rangus, Joseph, Faculty
 Reid, Josephine F., Faculty
 Renker, Laura, Faculty
 Repashy, Allen J., Administrator
 Richards, Freddie, Faculty
 Richards, June, Faculty
 Richardson, James R., Administrator
 Ripley, Robert, Faculty
 Riva, Barbara, Faculty
 Roach, Edward, Faculty
 Roach, Thomas W., Faculty
 Robinson, Patricia, Faculty
 Romero-Huerta, Maria Clara, Faculty
 Rossitto, JoAnn, Faculty/
 Administrator

Rossmuessler, Pauline M., Faculty
Saldivar, Jose, Administrator
Salgado, Jose, Faculty
Salinas, Elva, Faculty
Sauer, June C., Faculty
Schutte, George A., Faculty
Scott, Kathryn Jane, Faculty
Seiler, James, Faculty
Shaff, Jimmie L., Faculty
Shannon, Mary, Faculty
Shaw, Hope W., Faculty
Shina, Abraham, Faculty
Short, Robert, Faculty
Singer, Andrea, Faculty
Singer, David L., Faculty
Skillen, Shirley, Faculty
Sloan, Ella, Faculty
Smith, Dorothy, Faculty
Smith, Robert L., Faculty
Soler-Tossas, José Antonio, Faculty

Spafford, Paul, Faculty
Strecker, Robert, Faculty
Sullivan, Jack, Faculty
Sullivan, Norma, Faculty
Sun, Yu-Hua A., Faculty
Swenson, Darrell, Faculty
Teeple, Kerry J., Faculty
Tepper, Albert, Faculty
Theis, Edward L., Faculty
Thomas, Carolyn, Faculty
Thomas, Edward L., Faculty
Turkel, Ellen, Faculty
Valenzuela, Dora, Administrator
Van Tassel, Lowell T., Faculty
Von Sein, Edward C., Faculty
Wade, Juanita M., Faculty
Walelign, Adamu, Faculty
Waltz, Candace, Faculty
Weiner, William, Faculty
Weiss, Robert, Faculty

Welch, Douglas R., Faculty
Wellnitz, Jerry N., Faculty
Wemple, Don K., Faculty
West, Harry, Faculty
West, Leo, Administrator
White, Peter, Administrator
Whittleton Jr., H. Mark, Faculty
Willis, John R., Faculty
Wilson, Bobby, Administrator
Wilson, Kenneth, Faculty
Withers, Carol M., Faculty
Wisehart, Gary, Faculty
Witt, Betty, Faculty
Witt, John, Faculty
Wong, Raymond M., Faculty
Worley, Ronald C., Faculty
Wright-Howard, Debra, Administrator
Young, Dwight, Faculty

San Diego City College Contract Classified Professionals

Abbott, Sylvette

Senior Student Services Assistant,
Financial Aid

Aguilera Arredondo, Jahaziel I

Program Support Technician,
Mental Health Counseling/
Student Health Center
B.S., University of California, San
Diego

Antonio, Alyssa

Supervisor, Student Services
Admissions & Records

Arellano, Bianca E.

Student Services Technician,
HUBU, Puente, Umoja
A.A., San Diego City College
B.A., University of California,
Berkeley
M.A., University of San Diego

Arreola, Arturo

Sales Clerk, Bookstore

Arriola, Paolo Joseph

Student Assistance Technician,
Financial Aid

Avila-Franco, S. Charlene

Administrative Assistant III, Title V

Bakit, Lydia

Supervisor, Business Office
Support, Business Services

Balintec, Regie

Supervisor, Accounting, Student
Accounting

Balboa, Brin

Senior Student Services Assistant,
Welcome Center

Banzon-Tuazon, Alvin B.

Custodian, Facilities

Bassa, Overath

Custodian, Facilities

Bayisa, Megersa

Instructional Lab Technician, ILC
A.A., San Diego City College
B.A., San Diego State University
M.H.A., National University
M.Ed., Ed.D., Alliant International
University

Beck, Gary

Broadcast Operations Specialist,
KSDS

Benjamin, Juliet

Senior Account Clerk, Accounting

Bigley, Justin

Administrative Assistant III,
Professional Development

Blas, Francisco

Student Services Assistant,
Enrollment Services

Bonner, Jacqueline

Custodian, Facilities

Boyce, John

Occupational, Environmental
Health & Safety Coordinator,
Business Services

Broussard, Ginger

Administrative Technician - Civic
Center, Business Services

Brown, Eugene

Instructional Assistant, Graphics

Browne, Darwin

Program Support Technician,
DSPS

Burch, Ashley

Program Support Technician,
NextUP/EOPS
B.A., Cal Poly Pomona

Calbeck, Katrina

Custodian, Facilities

Canales, Ivan

Senior Tutor, Tutoring Center

Carroll, Brittney

Research and Planning Analyst
B.A., University of California, Irvine
M.S., San Diego State University

Castellanos, Wendy L.

Senior Tutor, English Center

Castro-Lopez, Gustavo

Custodian, Facilities

Castro Guerrero, Gustavo
Custodian, Facilities

Catarius, Jerimiah
Grounds Crewleader, Facilities

Chandler, Susan
Administrative Assistant III,
Nursing Education

Chatfield, Craig H.
Broadcast Engineer, Radio and
Television

Chau, Helen
Sales Clerk, Bookstore

Chea, Melissa
Instructional Lab Technician, TSG

Cheshire, Debbie
Lead Food Service Worker, Food
Services

Chhabra, Devika (Deka)
Instructional Learning Technician,
DSPS

Cordeiro, Alberto DaSilva
Micro Specialist Supervisor, TSG

Corro Flores, Magaly
Student Support Services Officer

Custodio, Kathleen
Research Associate, Institutional
Effectiveness and Research
B.A., University of Southern
California
M.A., University of California, Los
Angeles

Da Rosa, Adam
Custodian, Facilities

Da Rosa, Rogerio
Custodian, Facilities

Davis, Lilia
Student Services Technician,
Admissions & Records
M.A., Point Loma Nazarene

Davis, Sheila
Student Services Technician,
Financial Aid

D'Ambro, Joseph
Senior Student Services
Assistant, Student Transition
Services

Day, Alan Jr.
Custodian I, Facilities

de Alba, Ana
Production Services Assistant,
Digital Print Production and
Mailroom Services

De Alba, Roberto
Gardener/Groundskeeper,
Facilities

Devers, Stephen A.
Custodian, Facilities

Dhanifu, Ronald
Broadcast Operations Specialist,
KSDS

Disnew, Marie
Administrative Assistant I –
Instruction, Business

Dolfo, Jessica
Student Services Technician,
Welcome Center
B.A., Arizona State University
M.A., Point Loma Nazarene
University

Dominguez, Nydia
Student Support Services Officer

Donato, Javier G.
Custodian, Facilities

Dunham, Jerry L.
Custodian, Facilities

Duong, Son
Instructional Lab Technician,
Electronics

Dupard, Edwidge
Acting Student Services
Technician, Scholarship

Ebner, Leslie
Administrative Technician, KSDS

Eddington, Bernetta
Senior Account Clerk, Accounting

Fernandez, Patricia
Supervisor, Digital Print
Production and Mailroom
Services

Fernandez, Richard
Instructional Assistant, Library

Fox, Chad
Lead Broadcast Operations
Specialist, KSDS

Franklin, Todd
Custodian, Facilities

Franklin, Troy
Custodian, Facilities

Frost, Valerie
Administrative Assistant III,
Facilities

Garcia, Iramarie
Administrative Assistant IV,
Outreach & Enrollment Services

Garcia, Javier
Custodian, Facilities

Garduno, Elena
Senior Student Services Assistant,
Enrollment Services
A.A., San Diego City College

Garibay, Susanna
Student Service Assistant,
Financial Aid

Gomez, Gustavo
Athletic Equipment Attendant,
Athletics

Gonzales, Gabriella
Instructional Lab Technician, Child
Development
B.A., California State University,
Chico

Gonzales, Lydia
Administrative Assistant V,
Instruction
A.A., San Diego City College
B.A., Sacramento State University

Gonzalez, Daniel
Instructional Support Supervisor,
Library

Goodman, Alan
Administrative Technician, KSDS
Radio/TV Station

Gradilla, John
Student Services Assistant,
Counseling
A.S., San Diego City College
B.S., M.S., National University

Green, Tammy
Sales Clerk, Bookstore

Guardado, Carolina
Student Services Supervisor I, VA/
Veterans Service Center

Gumapas, Cesar
Information Officer
B.A., San Diego State University

Gutierrez, Rosangela
Instructional Lab Technician, Child Development
A.S., San Diego City College
B.A., Pacific Oaks College

Guzman, Salvador
Administrative Technician,
Business Services

Habeck, Kimberly D.
Athletic Equipment Attendant,
Athletics

Hamilton, Jacqueline D.
Custodian, Facilities

Hardwick-Cervantes III, Lawson
Student Support Services Officer,
Title III HSI STEM

Hernandez, Abel
Gardener/Groundskeeper,
Facilities

Hernandez, Rachel
Student Services Assistant,
Admissions & Records

Hicks, Deanna
Administrative Assistant I,
Admissions & Records

Hill, Josolyn
Student Services Supervisor,
Counseling, Evaluation
A.A., San Diego Mesa College
B.S., MBA, Ed.D., Alliant
International University

Holloway, Joan
Senior Food Service Worker

Hurst, Robert
District Network Specialist

Ignacio, Jennifer
Media Technician, Library

Isidro, Emmanuel
Senior Accounting Technician,
Student Accounting

Iwuaba, Cyprian
Multimedia Specialist,
Communications

Jackson, Terri
Student Services Technician, EOPS

Jenkins, Jamie
Athletic Trainer, HES Program

Johnson, Nicolas
Student Services Technician,
Veterans

Johnson, Michelle Y.
Administrative Assistant IV,
School of Health, Exercise Science,
and Athletics

Jones, Charlene
Clerical Assistant, Tutorial/
Learning Center
A.A., A.S., San Diego City College

Juarez, Rudy
Media Technician, Library

Kabonaizi, Robyn
Senior Student Services Assistant,
Admissions & Records

Kapchinsky, Svetlana
Senior Student Services Assistant,
Admissions & Records

Kocherhans, Joseph
Radio KSDS, Broadcast
Operations Specialist
A.A. San Diego City College

Laredo, Cynthia
Senior Clerical Assistant, Tutorial
Learning Services
B.A., San Diego State University

Lee, Lynn
Administrative Assistant III, EOPS
B.S., California State University,
Long Beach

Lemus, Ellyzah
Administrative Assistant IV,
Academic Senate

Leon, Martha
Administrative Assistant III,
College Police

Lewis, Guillemina
Media Technician, Library

Leyva, Noah
Administrative Technician,
Institutional Effectiveness

Ligsay, Kathleen Joyce
Instructional Lab Technician,
Chemistry

Lollis, Jeffery
Broadcast Operations Specialist,
KSDS

Lopez Garcia, Nohely
ILT/Chemistry

Lopez-Rivera, Andrea
Student Services Assistant,
Admissions

Lozares, Robert A.
Custodian and Crewleader,
Facilities

Lundy, Bruce
Course Materials Buyer, Bookstore

Mansinon-Salazar, Donovan
Instructional Assistant, Graphic
Design

Margetta, Vince
Food Service Supervisor, Food
Services

Maua, Angelle
Executive Assistant to the
President/Exec VC, Office of the
President

McClain, Terrellray
Instructional Lab Technician,
Information Services

McCulloch, James
Theater Technician

Mello, Irene
Administrative Technician,
Athletics

Mendoza, Lorenza
Student Services Assistant,
Financial Aid

Meza, Dora
Director, Enrollment Services

Michel, Edward G.
Senior Custodial Crewleader,
Facilities

Milbrand, Grant
Gardener/Groundskeeper,
Facilities

Millan, Maritza
Revenue Assistant, Bookstore

Monsen, Roseana
Instructional Lab Technician, Child
Development

Montano, Sofia
Student Assistant Technician,
Financial Aid

Morgan, Brent
Gardener/Groundskeeper,
Facilities

Morgan, Byron
Instructional Lab Technician,
HVAC/R Program

Mouer, Kamini B.
Administrative Technician,
Instruction

Muniz Ramirez, Nancy
Administrative Technician, CTE
Strong Workforce

Munoz, Mayra
Student Assistant Technician,
Financial Aid

Murray, Larry
Broadcast Operations Specialist,
KSDS

Najimy, Temmy
Administrative Assistant IV,
School of Information and
Learning Technology
A.A., San Diego Miramar College
B.A., San Diego State University

Nasrawi, Majeda
Instructional Support Supervisor/
ILC & Office of Classroom
Technology Management
B.A., University of California, San
Diego
M.S., National University

Navarro, Cecilia
Student Assistant Technician,
Financial Aid

Oldham, Lori L.
Coordinator, Student Affairs
A.S., San Diego City College
B.A., The Union Institute and
University
M.S., National University

Ortegon, Elda
Instructional Assistant, Child
Development

Oviedo, Arlene
Student Services Assistant,
Financial Aid

Padilla, Clarissa
Director, Outreach, Welcome
Center, and Promise

Patton, Janay
Senior Student Services Assistant,
Enrollment Services
M.A., San Diego State University

Payne, Mark
Custodian, Facilities

Petty, Yvette
Senior Food Service Worker, Food
Services

Phillip, Louay
Senior Accounting Clerk, Student
Accounting

Pickens, Sontia
Administrative Assistant IV, Office
of the President

Pitcher, Nathaniel Andrew
Theatre Technician, Dramatic Arts

Pittman, Maria
Student Services Assistant,
Financial Aid

Pizana, Lydia
Custodian, Facilities

Ponce, Kenia
Administrative Technician,
Business Services

Poston, Kenneth
Radio Station Operations
Supervisor, KSDS

Prater, Dena
Administrative Assistant V,
Administrative Services

Pugnier, Patricia
Student Services Technician,
College Evaluations and
Counseling Department

Purnell, Jay
Regional Facilities Officer,
Facilities

Quoi, Stephen
Custodian, Facilities

Rangel-Salas, Silvia
Food Service Worker

Rincon, Alisia
Supervisor, Financial Aid
B.A., University of Phoenix
M.B.A., University of Phoenix

Rincon, Cristian
Senior Accounting Technician,
Business Services

Rivera, Anthony
Custodian, Facilities

Rivers, Murjaz
Administrative Assistant III,
Student Health Clinic

Rodriguez Capilla, Jair
Production Services Assistant,
Digital Print Production and
Mailroom Services

Rodriguez, Marian
Student Services Assistant,
Student Affairs
B.A., San Diego State University

Rodriguez, Yanira
Administrative Technician, TANF

Rofaeel, Nisreen
Student Services Assistant,
Counseling
A.A., Grossmont College
B.A., University of Baghdad

Rojas, Rachel
Student Services Technician,
Promise

Romero, Berenise
Senior Accounting Technician,
Business Services

Rovatsos, Michael
Lead Broadcast Operations
Specialist, KSDS

Ruelas, Veronica
Instructional Assistant, Child
Development

Russell, Claudia
Lead Broadcast Operations
Specialist, KSDS

Ruvalcaba, Jose
Instructional Lab Technician, TSG

Ryan, Sean
Multimedia Specialist, OCTM

Saldana, Evelyn
Instructional Lab Technician,
Biology

Saldivar, Angel
Child Development Director

Sanchez, Jose
Job Placement Coordinator, CTE
Strong Workforce

Sandoval, Eric
Multimedia Specialist, OCTM

A.S., San Diego City College
B.A., M.A., San Diego State
University
Certificates: Certified Technology
Specialist; InfoComm
International

Sataua, Maria
Instructional Lab Technician, TSG

Sebring, Ed
Instructional Lab Technician,
Physical Science

Segala, Andre
Student Services Assistant,
Admissions & Records

Segura, Cory
Instructional Lab Technician,
MACT

Silva, Albert
Student Assistance Technician,
Financial Aid
Silva, Victor
Graphic Artist/Photographer,
Communications

Sim, Neary
Administrative Assistant IV,
School of Behavioral and Social
Sciences and Consumer and
Family Studies

Sniff, David
Chief Broadcast Engineer, KSDS
Radio/TV Station

Solis, Nicolas
Gardener/Groundskeeper,
Facilities

Soukhaseum, Anourack (Lance)
Director, Tutorial Center
B.A., Cal State Fullerton
M.A., San Diego State University

Steininger-Paxton, Laura J.
Instructional Lab Technician,
Biology

Stephens, Peter
Custodian, Facilities

Stewart, Jr., Samuel L.
Instructional Lab Technician, TSG

Thibeault, Cecilia
Program Support Technician, Title
III HSI STEM

Thibeault, Richard
Network Specialist, TSG

Tirpak, Andrew
Athletic Groundskeeper, Health,
Exercise Science & Athletics

Titus, Joseph
Custodian, Facilities

Tong, Nancy
Student Services Assistant, EOPS

Torres, Brenda
Student Services Technician,
Extended Opportunity Programs
& Services (EOPS), Cooperative
Agencies Resources for Education
(CARE)
A.A., San Diego City College

Torres Alvarez, Natali
Senior Accounting Technician,
Business Services

Tubon, George
Instructional Lab Technician,
Photography

Valdes Rankin, Franchesca
Student Services Technician, Basic
Needs Center

Valdez, Cecilia
Senior Student Services Assistant,
Financial Aid

Valentine, Rich
Graphic Artist/Photographer,
Communications Office
B.A., The Art Institute of
Pittsburgh

Van Patten, Vanessa
Administrative Assistant I, College
Police

Van Saanen, Desiree
Administrative Assistant V,
Student Services
A.A., San Diego City College
A.A., San Diego Mesa College

Vargas, Elizabeth
Director, Upward Bound
B.S., Bellevue University
M.A., Point Loma Nazarene
University

Vazquez, Rebecca
Instructional Lab Technician,
Chemistry

Vela-Osuna, Eric
Student Services Assistant,
Admissions & Records

Vidrio, Carlota
Administrative Assistant IV,
School of Business, Information
Technology, Cosmetology,
Engineering, and Trades

Vilaboy, Itza
Student Services Assistant,
Financial Aid

Villaescusa, Carlos
Gardener/Groundskeeper,
Facilities

Washington, Maria
Custodian, Facilities

Welton, William
Facilities Custodial Supervisor II,
Facilities

Wilmer, Robert
Custodian, Facilities

Woodward, Kathleen
Administrative Technician,
Mathematics

Xu, Yifan (Joseph)
Student Assistant Technician,
Financial Aid
B.A., University of California, San
Diego

Xiong, Trusty
Student Services Technician,
Financial Aid
B.S., San Diego State University

Zhang, Erica
Instructional Lab Technician,
Biology

San Diego City College Campus Map

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