

CONTINUING EDUCATION CURRICULUM

Computer and Information Sciences (COMP)

<p>*690 Web Programming: Javascript</p> <p>Hours: 180 Advisories: Successful completion of COMM 641 or equivalent prior knowledge or experience.</p> <p>This course incorporates JavaScript into the web development process and serves as a foundation for the Full-Stack Web Development certificate program. Students will learn about modern web architecture and how JavaScript serves as an armature for every component within that ecosystem. More importantly, students will learn how to program for the web using JavaScript. Students will also learn how JavaScript can enhance a webpage, allowing additional interactivity and more precise control of page elements. Techniques used in creating a website and making the content more dynamic will also be taught. (FT)</p>	<p>Action(s) Proposed: New Course</p> <p><i>Approved</i></p> <p>Effective: Spring 2022</p>
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Computer and Information Sciences (COMP)

<p>*691 NoSQL Document Databases</p> <p>Hours: 60 Advisories: None</p> <p>MongoDB is a free and open source document database. It is a NoSQL database that uses a JavaScript Object Notation (JSON)-like schema. It is cross platform and easy to deploy on the cloud or on a server, and it's because of this flexibility that companies like Uber, Lyft, Coinbase, Accenture, Adobe, Cisco, and more choose it over traditional relational database solutions. This course is designed to get students up to speed on MongoDB. Students will learn the basics of the technology, how to work with MongoDB in the cloud, how to create databases and collections, and how to perform basic and advanced create, retrieve, update, and delete (CRUD) operations, and more. (FT)</p>	<p>Action(s) Proposed: New Course</p> <p><i>Approved</i></p> <p>Effective: Spring 2022</p>
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Computer and Information Sciences (COMP)

<p>*692 Building Restful Web APIs</p> <p>Hours: 60 Advisories: Successful completion of COMP 691 NOSQL DOCUMENT DATABASES</p> <p>React and Node are a popular combination for building robust full-stack web applications, powering a host of modern web apps including Netflix, Walmart, LinkedIn, Uber, PayPal, and more. Over the span of two courses, you will learn full-stack development with MongoDB, Express, React, and Node.js, commonly referred to as the MERN stack. In this course you will learn how to build the APIs that connect to data in the database and expose that data to the web apps you build. In all, you will learn how to build data-driven apps using MongoDB, Node, and Express, and test, secure, and deploy your apps. (FT)</p>	<p>Action(s) Proposed: New Course</p> <p><i>Approved</i></p> <p>Effective: Spring 2022</p>
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Computer and Information Sciences (COMP)

<p>*693 Javascript Frameworks</p> <p>Hours: 60 Advisories: Successful completion of COMP 691 NOSQL DOCUMENT DATABASES; and Successful completion of COMP 692 BUILDING RESTFUL WEB APIS</p> <p>React is one piece of the MongoDB, Express, React, and Node (MERN) development stack. React was designed to make the process of building modular, reusable user interface components simple and intuitive. This course will guide students through the foundations of React development, covering setup, components, elements, and state, as well as how to leverage the JSX syntax extension to improve ability to nest elements within each other. React Router, React-Bootstrap, and forms development with React are also covered. (FT)</p>	<p>Action(s) Proposed: New Course</p> <p><i>Approved</i></p> <p>Effective: Spring 2022</p>
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**Curriculum Instructional Council
Actions Approved – May 27, 2021**

PROGRAM CHANGES

Digital Media and Programming

New Program: Effective Spring 2022—*Approved*

***Full-Stack Web Developer Certificate of Completion**