

## **IS 3760: Web Development II**

### **3 Credit Hours**

*Prerequisite: IS 3260, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.*

The architectural model for computer-based application intense software systems centers around component development and deployment. This course will explore concepts related to the development of dynamic component-based web systems including web page connectivity to database systems and the development and utilization of Web Services. Web services include the ability to integrate code written in different programming languages and the emerging platforms, architectures, and technologies (such as XML, SOAP, and WSDL) that have arisen to support the next generation of software systems. Specifically students in this course will have an opportunity to directly interact with an Integrated Development Environment (such as Microsoft's .NET) and will be required to develop and implement dynamic Web pages and Web services.

## **IS 3815: Blockchain for Business**

### **3 Credit Hours**

In this course, students master the essential and foundational technologies of blockchain. Students apply blockchain technologies to multiple business use-cases in sectors across several industries such as governance, finance, education, and healthcare. They use permissioned (private) and permissionless (public) blockchain services. The course engages the learner to apply immutable transaction ledger design to achieve triple-ledger accounting. Students engage in hands-on labs building blockchain use-cases. Activities include writing chaincode (Smart Contracts); creating blockchain business network participants, identities, and access control; coding a client application, as well as designing queries and events; building an interactive front end; and exploring the utility of blockchain deployment.