

Internet and Web, Undergraduate Certificate

The undergraduate certificate in Internet and Web is a five-course (15 credit hour) program. It is designed to provide broad training in web technologies ~~related to Internet and Web, with flexibility allowing a student to satisfy specific interests~~ at both the client and server sides, including various stack architectures and frameworks, recent technologies such as REST and trends such as microservices. A minimum GPA of 2.5 is required for admission.

Required Courses		
CMP SCI 3010	Web Programming	3
CMP SCI 4010	Advanced Web Development with Java	3
CMP SCI 4011	Web Development with Advanced JavaScript	3
CMP SCI 4012	Introduction to Enterprise Web Development	3
Elective		
Choose one of the following courses:		3
CMP SCI 4020	Introduction to Android Apps: Android Fundamentals	
CMP SCI 4030	Introduction to Intelligent Web	
CMP SCI 4610	Database Management Systems	
CMP SCI 4730	Computer Networks and Communications	

CMP SCI 4750

Introduction to Cloud Computing

Total Hours

15

A minimum of three courses must be taken from UMSL. Courses may be substituted with the permission of the certificate coordinator. For more information, students can contact the department chair or email info@arch.umsl.edu.

Sign-offs from other departments affected by this proposal

Department	Contact Person	Phone #	Objections
S005150	Dinesh Mirchandani	7354	No

Rationale

Updated the courses for newest technologies, updating the certificate description