



Undergraduate Certificate in Internet and Web

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 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.

A minimum of three courses must be taken from UMSL. Courses may be substituted with the permission of the certificate coordinator.

| Required core courses | | Availability |
|-------------------------------------|---|--------------|
| CMP SCI 3010 | Web Programming | FPS |
| CMP SCI 4010 | Advanced Web Development with Java | FP |
| CMP SCI 4011 | Web Development with Advanced JavaScript | P |
| CMP SCI 4012 | Introduction to Enterprise Web Development | P |
| Choose one of the electives | | |
| CMP SCI 4020 | Introduction to Android Apps: Android Fund. | P |
| CMP SCI 4030 | Introduction to Intelligent Web | TBA |
| CMP SCI 4610 | Database Management Systems | FP |
| CMP SCI 4730 | Computer Networks and Communications | FP |
| CMP SCI 4750 | Introduction to Cloud Computing | F |
| CMP SCI 4794 | Introduction to Security of IoT Systems | F |
| Total courses (credit hours) | | 5(15) |

For more info about Computer Science visit umsl.edu/cs, for careers visit umsl.edu/cs/careers.

For electronic version visit <http://umsl.edu/cs/certificates>.

Availability: Summer (S), Fall (F), Spring (P)

Mode: Online  Evening 

For course rotation visit <https://www.umsl.edu/cmpsci/undergraduate-studies/3yearcourse.html>