

GRADUATE

**Certificate in Mobile
Apps and Computing**

UMSL

UMSL is a NSA/DHS National
Center of Academic Excellence in
Cyber Defense Education



College of Arts and Sciences

**Department of Mathematics
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Graduate Certificate in Mobile Apps and Computing - *Pending*



The graduate certificate in Mobile Apps and Computing is a five-course (15 credit hours) program. It is designed to provide training in technologies and frameworks for mobile apps and computing. All students must take three required courses and choose two electives, subject to the [graduate school regulations](#).

Courses may be substituted with the permission of the program director.

Required core courses	3
CMP SCI 5020/4020	Android Apps: Android Fundamentals
CMP SCI 4220	Introduction to iOS Programming and Apps
CMP SCI 5222/4222	Advanced iOS Apps
Choose two of the electives	2
CMP SCI 5012/4012	Enterprise Web Development
CMP SCI 4610	Database Management Systems
CMP SCI 4792	Mobile and Ubiquitous Computing
CMP SCI 5750/4750	Cloud Computing
Total courses (credit hours)	5(15)

For more information visit umsl.edu/cs.

For career information visit umsl.edu/cs/careers.

For electronic version of this document and more info visit <http://www.umsl.edu/cs/certificates>

UMSL|NOW : All courses available in the evening - some every semester some on rotation.