

GRADUATE Certificate in Mobile Apps and Computing



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



College of Arts and Sciences

**Department of
Computer Science**

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Graduate Certificate in Mobile Apps and Computing

The graduate certificate in Mobile Apps and Computing is a four-course (12 credit hours) program. It provides training in technologies and frameworks for mobile apps and computing. All students must take three required courses and one elective, subject to the [graduate school regulations](#).

A minimum of three courses must be taken from [UMSL](#). A maximum of two courses can be used from the 4000-level. Courses may be substituted with the permission of the certificate coordinator. For more information, students can contact the department chair or email info@arch.umsi.edu.

Required core courses		Availability
CMP SCI 5020	Android Apps: Android Fundamentals	P
CMP SCI 4220	Introduction to iOS Programming and Apps	S
CMP SCI 5792	Mobile Computing, Networking and Security	P
Choose one of the electives		
CMP SCI 4610	Database Management Systems	FP
CMP SCI 5222	Advanced iOS Apps	F
CMP SCI 5750	Cloud Computing	F
CMP SCI 5794	Security of IoT Systems	F
Total courses (credit hours)		4(12)

For more information visit umsi.edu/cs. For career information visit umsi.edu/cs/careers.

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

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

Mode: Online Evening

For course rotation visit <https://www.umsi.edu/cmpsci/graduate-studies/3yeacourse.html>