

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
and Computer Science**

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Graduate Certificate in Mobile Apps and Computing



(pending update)

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.umsl.edu.

Required core courses		Availability
CMP SCI 5020/4020	Android Apps: Android Fundamentals	O P
CMP SCI 4220	Introduction to iOS Programming and Apps	O S
CMP SCI 5792/4792	Mobile Computing, Networking and Security	O P
Choose one of the electives		
CMP SCI 4610	Database Management Systems	E FP
CMP SCI 5222	Advanced iOS Apps	O F
CMP SCI 5750/4750	Cloud Computing	O F
Total courses (credit hours)		4(12)

For more info visit umsl.edu/cs. For careers visit umsl.edu/cs/careers.

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

Availability: Online as of FS2020 (O), Evening (E), Summer (S), Fall (F), Spring (P)

 Online.