

STUDENT:



STUDENT ID NUMBER:

**COLLEGE OF LIBERAL ARTS & SCIENCES • MS • COMPUTER SCIENCE: SOFTWARE DEVELOPMENT**

Program Code: GLASCSC

Version Number: 2188 - Fall2018

Effective Date: August 27, 2018

**Program Requirements for Master of Science in Computer Science: Software Development**

<b>Required: 3 credits</b>	Grd	Term
CSC 402: Data Structures II		

<b>Foundational Courses: 12-27 credits</b>	Grd	Term
CSC 421: Web-Based Design and Develop		
CSC 425: Compiler Design I		
CSC 447: Artificial Intelligence I		
CSC 456: Database Mgmt Systems I		
CSC 458: Data Mining & Predictive Anal. I		
CSC 459: Introduction to Big Data		
CSC 510: Advanced Operating Systems		
CSC 520: Adv Object Oriented Program		
CSC 521: Adv Web-Based Software Devel.		
CSC 526: Compiler Design II		
CSC 543: Multiprocessing&Concurrent Prg		
CSC 548: Artificial Intelligence II		
CSC 552: Advanced UNIX Programming		
CSC 556: Database Mgmt Systems II		
CSC 558: Data Mining & Predictive Anal. II		

<b>Optional Thesis: 0 or 6 credits</b>	Grd	Term
CSC 599: Thesis – 6 credits		

<b>Elective Courses: 0-9 credits</b>	Grd	Term

**Depth Component Requirement: Choose at least two courses (one or more 500-level) from one depth area.**

<b>Depth Area</b>	<b>Courses</b>
Compiler	425, 526
AI	445, 447, 548
Database	456, 556
Web	421, 464, 521
OO/Functional Design and Develop	520, 543
Operating Systems	543, 552
Data Analytics	458, 558

Note: Selected Topics CSC 480 and CSC 580 are classified as foundational or elective based upon the specific topic

**Advisement Notes:**

- Candidates for the MS degree in Computer Science must complete a total of 30 credits, selected in consultation with your advisor. A candidate must complete all degree requirements for the MS within six (6) calendar years after his or her acceptance into the program.
- Students may elect for the thesis option, which requires the completion of 24 credits of courses and 6 credits of thesis. Students who do not complete a thesis must pass the MS comprehensive exam, which is comprised of four one-hour exams over the material of four regularly scheduled 500-level courses in a student's program of study (POS). A student first becomes eligible to take the comprehensive exam during the term in which they complete a fourth regularly-scheduled 500-level course(s) in their POS. The comprehensive exam is administered during the last week of class in the Fall and Spring semesters.
- Students must complete at least 18 credits of 500-level courses, which can include 6 hours of CSC 599 for students electing the thesis option. No more than four 400-level courses may be taken for graduate credit.
- Students must complete at least one depth component in their program. (see chart above)