

Program:	Computer Science	Dept:	Computer Science
Major:	Computer Science	College:	Mathematics and Science
Degree:	Master of Science (M.S.)	Major Code:	6680

Computer Science, M.S.

This program is designed to prepare students to meet the demands of a Ph.D. study in Computer Science or a professional position in advanced computing applications in the IT industry. The curriculum offers four optional concentration areas for the students to further develop their problem-solving skills and expertise beyond the baccalaureate level.

Graduate Advisor: Dr. Hong Sung
 Email: hsung@uco.edu
 Office: MCS 132
 Phone: (405) 974 - 5385

Admission Requirements

Submit the following items to:

Jackson College of Graduate Studies
 100 N. University Drive, NUC 404
 Edmond, OK 73034

- Online application for admission (www.uco.edu/graduate/).
- Official copies of undergraduate and graduate transcripts from each institution attended with all degrees posted. All transcripts must be from accredited institutions.
- Undergraduate transcripts must show a minimum GPA of 3.0 overall or 3.0 GPA in the last 60 hours attempted.*
- Request for conditional admission may be made by students having an overall undergraduate GPA of at least 2.50 or at least 2.25 with five years of experience in the discipline since the date of their first bachelor's degree.
- An undergraduate degree in Computer Science or evidence of completion of all prerequisites (if any), as determined by the graduate advisor.
- Students with a native language other than English must submit evidence of English language proficiency.

*Students falling below these standards may qualify for conditional admission. See [Admissions to Graduate Studies \(p.13\)](#).

Other Requirements

- Plan of Study. Each student must file a plan of study with his/her graduate advisor and the Jackson College of Graduate Studies by the end of the first semester of graduate work. The plan must be signed and dated by the student and the graduate advisor before it can be considered official.
- Academic Standards. Meet the following course work standards:
 - Minimum cumulative graduate GPA of 3.00 in all graduate courses.
 - No more than six (6) graduate credit hours of C or lower grades.
 - Courses with a grade lower than a C do not apply toward graduation
 - Apply for graduation through the Jackson College of Graduate Studies by the advertised deadline.
- Thesis (optional). If applicable, complete an acceptable thesis and successfully defend it in public, two paper copies of the thesis and one electronic copy to the library through Proquest and the thesis' original title page, original signature page, summary and abstract page to the JCGS.

Graduation Requirements

Required Courses..... 18-21 Hours

Course Prefix	Course No.	Course Title
CMSC	5043	Applications of Database Mgmt. Systems
CMSC	5283	Software Engineering I
CMSC	5053	Operating Systems
CMSC	5023	Programming Languages
CMSC	5950	Internship in Computer Science (3 hours)
CMSC	5980 or 5990	Graduate Project (3 Hours) or Thesis (6 hours)

Choose One Concentration Below9 Hours

Software Engineering Concentration (Choose 9 hours)

Course Prefix	Course No.	Course Title
CMSC	5423	Software Engineering II
CMSC	5433	Software Architecture & Design
CMSC	5323	Computer and Network Security
CMSC	5910	Special Topics in Software Engineering (3 hrs)

Enterprise Development Concentration (Choose 9 hours)

Course Prefix	Course No.	Course Title
CMSC	5303	Mobile Apps Programming
CMSC	5373	Web Server Programming
CMSC	5323	Computer and Network Security
CMSC	5910	Special Topics in Ent. Development (3 hrs)

Intelligent Systems Concentration (Choose 9 hours)

Course Prefix	Course No.	Course Title
CMSC	5193	Introduction to Robotics
CMSC	5033	Concepts of Artificial Intelligence
STAT	5263	Computer Applications in Statistics
CMSC	5910	Special Topics in Intelligent Systems (3 hrs)

Systems/Theory Concentration (Choose 9 hours)

Course Prefix	Course No.	Course Title
CMSC	5273	Theory of Computing
CMSC	5063	Networks
CMSC	5073	Translator Design
CMSC	5910	Special Topics in Systems or Theory (3 hrs)

Guided Electives Hours 3-6 Hours

CMSC 5xxx courses or courses chosen in consultation with the graduate advisor.

TOTAL HOURS REQUIRED..... 33 HOURS