

<b>Program:</b>	Computer Science	<b>Dept:</b>	Computer Science
<b>Major:</b>	Computer Science	<b>College:</b>	Mathematics and Science
<b>Degree:</b>	Master of Science (M.S.)	<b>Major Code:</b>	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.

<b>Graduate Advisor:</b>	<b>Dr. Myung-Ah Park</b>
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### 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/](http://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.\*
- An undergraduate degree in Computer Science or evidence of completion of all prerequisites (if any), as determined by the graduate advisor.
- A GRE score is not required. However, we recommend a minimum combined GRE verbal and quantitative: score of 290 with a minimum quantitative score of 150.
- Request for conditional admission may be made by 1) students having an overall undergraduate GPA of at least 2.50 and a minimum combined GRE verbal and quantitative score of 310 with a minimum quantitative score of 155; or 2) students having an overall undergraduate GPA of at least 2.25 with five years of experience in the discipline since the date of their first bachelor's degree.
- 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 [Admission to Graduate Studies \(p.17\)](#).

### Other Requirements

- Plan of Study. Each student must file a plan of study with their 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. Submit 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 Database Systems
CMSC	5283	Software Engineering I
CMSC	5053	Operating Systems
CMSC	5023	Programming Languages, OR
CMSC	5063	Computer Networks
CMSC	5950	Internship in Computer Science (3 hours)
CMSC	5980	Graduate Project (3 hours), OR
CMSC	5990	Thesis (6 hours)

**Choose One Concentration Below .....9 Hours**

*Software Engineering Concentration (Choose 9 hours)*

Course Prefix	Course No.	Course Title
CMSC	5423	Software Engineering II
CMSC	5433	Software Architecture & Design
CMSC	5083	Cybersecurity
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	Cloud Web Apps Development
CMSC	5223	Cyber Infrastructure and Cloud Computing
CMSC	5313	Internet of Things
CMSC	5083	Cybersecurity
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
CMSC	5143	Algorithms for Machine Learning
CMSC	5313	Internet of Things
STAT	5263	Computer Applications in Statistics
CMSC	5910	Special Topics in Intelligent Systems (3 hrs)

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**Program:**  
**Major**

*Cybersecurity Concentration (Choose 9 hours)*

Course Prefix	Course No.	Course Title
CMSC	5083	Cybersecurity
CMSC	5163	Secure System Administration and Certification
CMSC	5223	Cyber Infrastructure and Cloud Computing
CMSC	5323	Network Security
CMSC	5333	Incident Analysis and Response I
CMSC	5343	Cyber Operations
CMSC	5353	Incident Analysis and Response II

*Systems/Theory Concentration (Choose 9 hours)*

Course Prefix	Course No.	Course Title
CMSC	5273	Theory of Computing
CMSC	5063	Computer Networks**
CMSC	5073	Translator Design
CMSC	5163	Secure System Administration and Certification
CMSC	5910	Special Topics in Systems or Theory (3 hrs)

*\*\*CMSC 5063 can be taken in the Systems/Theory Concentration if it is not taken as a required course.*

**Guided Electives Hours ..... 3-6 Hours**

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

**TOTAL HOURS REQUIRED..... 33 HOURS**