

Program: Applied Mathematics and Computer Science
Major: Applied Mathematics and Computer Science
Degree: Master of Science (M.S.)

Dept: Mathematics & Statistics / Computer Science
College: Mathematics and Science
Major Code: 6660

Applied Mathematics and Computer Science, M.S.

This major is designed to prepare students to meet the demands of industry, business, and government for individuals with expertise in advanced applications of mathematics and computer science. While ensuring sound mathematical training, the degree program also concentrates on widely applicable computer science principles and provides further development of problem-solving skills.

Graduate Advisor (Math): **Dr. Brittany Bannish**
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 Phone: (405) 974 - 5441

Graduate Advisor (Comp. Sci.): **Dr. Hong Sung**
 Email: hsung@uco.edu
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 Phone: (405) 974 - 5385

NOTE: Request for re-examination will not be granted more than one time.

- 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 submit the thesis' title page, original signature page, summary, and abstract page to the JCGS.
- Final Requirements. Apply for graduation through the JCGS by advertised deadline.

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 minimal 3.00 GPA overall and 3.00 GPA in the last 60 hours attempted.
 - Completion of the following prerequisite courses: Matrix Algebra or Linear Algebra, Differential Equations, Statistical Methods I, and Data Structures and Algorithms, and an upper-division OO design and programming course with design patterns.
- Students with a native language other than English must submit evidence of English language proficiency. See [Admission to Graduate Studies - English Language Proficiency \(p.15\)](#).

*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 program 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 program advisor before it can be considered official.
- Academic Standards. Meet the following course work standards:
 - Overall GPA of 3.00 or higher.
 - No more than 6 hours of "C" or lower.
 - No more than six advisor-approved hours from traditional correspondence courses.
- Competency Examination. Achieve a minimum score of "pass" on competency exam.

Graduation Requirements

Required Courses.....24 Hours

Course Prefix	Course No.	Course Title
CMSC	5043	Applied Database Management
CMSC	5053	Operating Systems, OR
CMSC	5063	Networks
CMSC	5283	Software Engineering
CMSC	5023	Programming Languages, OR
CMSC	5273	Theory of Computing
MATH	5113	Operations Research 1
MATH	5143	Advanced Calculus for Applications 1
MATH	5853	Introduction to Graduate Research
STAT	5263	Computer Applications in Statistics

Guided Electives.....9 Hours

From MATH or STAT Courses 3-6 Hours

From CMSC or SE Courses..... 3-6 Hours

Thesis, Project, or Additional Course Work.....3 Hours

Course Prefix	Course No.	Course Title
MATH	5980	Graduate Project, OR
MATH	5990	Graduate Thesis, OR
CMSC	5980	Graduate Project, OR
CMSC	5990	Graduate Thesis, OR
MATH	5xxx	Graduate MATH Course, OR
STAT	5xxx	Graduate STAT Course, OR
CMSC	5xxx	Graduate CMSC Course, OR
SE	5xxx	Graduate SE Course

TOTAL HOURS REQUIRED 36 HOURS