

Program:	Applied Mathematical Science	Dept:	Mathematics and Statistics
Major:	Applied Mathematical Science - Mathematics	College:	Mathematics and Science
Degree:	Master of Science (M.S.)	Major Code:	6621

Applied Mathematical Science – Mathematics, M.S.

This major is designed to prepare students to meet the demands of industry, business, and government for individuals with expertise in the applications of the mathematical sciences. While ensuring sound mathematical training, the degree program concentrates on the development of widely applicable intellectual skills and provides experience with concrete problems.

Graduate Advisor (Math):	Dr. Brittany Bannish
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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/). 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, and Statistical Methods I.
- 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.
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.

Graduation Requirements

Required Courses.....18 Hours

Course Prefix	Course No.	Course Title
MATH	5113	Operations Research 1
MATH	5143	Advanced Calculus for Applications 1
MATH	5263	Numerical Linear Algebra, OR
MATH	5363	Applied Numerical Analysis
MATH	5453	Mathematical Modeling
MATH	5853	Introduction to Graduate Research
STAT	5263	Computer Applications in Statistics

Guided Electives.....15 Hours

From MATH or STAT Courses

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

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

TOTAL HOURS REQUIRED 36 HOURS