Applied Mathematical Science – Teaching, 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
Email: bbannish@uco.edu
Office: STEM 246
Phone: (405) 974 - 5441

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.
• 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 (JCGS) 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 six 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.

<table>
<thead>
<tr>
<th>Course Prefix</th>
<th>Course No.</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH</td>
<td>5113</td>
<td>Operations Research 1</td>
</tr>
<tr>
<td>MATH</td>
<td>5143</td>
<td>Advanced Calculus for Applications 1</td>
</tr>
<tr>
<td>MATH</td>
<td>5453</td>
<td>Mathematical Modeling</td>
</tr>
<tr>
<td>MATH</td>
<td>5843</td>
<td>Teaching of Secondary Math</td>
</tr>
<tr>
<td>MATH</td>
<td>5853</td>
<td>Introduction to Graduate Research</td>
</tr>
<tr>
<td>STAT</td>
<td>5263</td>
<td>Computer Applications in Statistics</td>
</tr>
</tbody>
</table>

Guided Electives..................................................15 Hours
From MATH or STAT Courses................................9-12 Hours
From PTE courses..................................................3-6 Hours

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

<table>
<thead>
<tr>
<th>Course Prefix</th>
<th>Course No.</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH</td>
<td>5980</td>
<td>Graduate Project, OR</td>
</tr>
<tr>
<td>MATH</td>
<td>5990</td>
<td>Graduate Thesis, OR</td>
</tr>
<tr>
<td>MATH</td>
<td>5xxx</td>
<td>Graduate MATH Course, OR</td>
</tr>
<tr>
<td>STAT</td>
<td>5xxx</td>
<td>Graduate STAT Course</td>
</tr>
</tbody>
</table>

TOTAL HOURS REQUIRED...........................................36 HOURS