Program: Computational Science
Major: Computer Science
Degree: Professional Science Master’s (P.S.M.)

Center: Center for Research and Education in Interdisciplinary Computation
College: Mathematics and Science
Major Code: 6670

Computational Science - Computer Science, P.S.M.
This major develops graduates that are technical experts in computer science or software engineering. Graduates will lead efforts in the workplace to meet goals using data, quantitative techniques, and business analytics. A graduate's professional and communication skills will allow her/him to serve as lead technical resource for collaboration between units in his/her organization.

Graduate Advisor: Dr. Evan Lemley
Email: elemley@uco.edu
Office: HOH 209
Phone: (405) 974 - 5473

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: *
- Bachelor's degree in any subject area. If not in an area of science, technology, engineering or mathematics, then applicant should demonstrate work or other experience that has prepared them for the PSM program.
- Undergraduate and graduate transcripts from all institutions attended that record a minimum overall GPA of 2.75 and a minimum of 3.00 in the last 60 hours.
- The GRE exam is not required, but a minimum combined verbal and quantitative score of 300 is recommended.
- Two letters of recommendation.
- Meet with the PSM program director to plan the curriculum and Integrative Project prior to enrollment in the first semester of study.
- Establish a professional social media presence (Linkedin.com for example) and link to the PSM program director.

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

Note: Students must meet with faculty mentor/advisor in group or individual advisement session before enrolling.

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 during which they complete their twelfth hour 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:
  - Minimum cumulative graduate GPA of 3.00 in all graduate courses.
  - No more than six (6) graduate credit hours of C grades.
  - Courses with a grade lower than a C do not apply toward graduation.
  - Successful completion of the Integrative Project sequence.
  - In the final semester of study, apply for graduation through the JCGS by the advertised deadline.

Graduation Requirements

Required PSM Courses .........................................12 Hours
Course Prefix | Course No. | Course Title
-------------|------------|----------------
PSM          | 5013       | Computational Science for Professionals I
PSM          | 5113       | Computational Science for Professionals II
PSM          | 5681       | Integrative Project I
PSM          | 5781       | Integrative Project II
PSM          | 5881       | Integrative Project III
PSM          | 5203       | Introduction to Data Science

Required Management Courses...............................7-8 Hours
Course Prefix | Course No. | Course Title
-------------|------------|----------------
ISOM         | 5333       | Project Management OR
MBA          | 5552       | Project and Program Management
MBA          | 5033       | Creative Problem Solving
MBA          | 5352       | Managerial & Operational Analytics

Elective Business Course(s) ............................2-4 Hours
Choose 2-4 hours from the list below:
Course Prefix | Course No. | Course Title
-------------|------------|----------------
MBA          | 5042       | Managerial Economics
MBA          | 5142       | Managerial Finance
MBA          | 5172       | Managerial Accounting
MBA          | 5243       | Leading People in Organizations
MBA          | 5572       | Business Ethics & Sustainability
MBA          | 5642       | Organizational Change & Innovation
MSBA         | 5232       | Data Visualization
MSBA         | 5314       | Applied Analytics
Program: Computational Science
Major: Computer Science

Guided Electives .......................................................... 9 Hours
Choose 9 hours from the list below:

<table>
<thead>
<tr>
<th>Course Prefix</th>
<th>Course No.</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMSC</td>
<td>5043</td>
<td>Applications Database Systems</td>
</tr>
<tr>
<td>CMSC</td>
<td>5193</td>
<td>Introduction to Robotics</td>
</tr>
<tr>
<td>CMSC</td>
<td>5283</td>
<td>Software Engineering I</td>
</tr>
<tr>
<td>CMSC</td>
<td>5303</td>
<td>Mobile Application Programming</td>
</tr>
<tr>
<td>CMSC</td>
<td>5323</td>
<td>Computer and Network Security</td>
</tr>
<tr>
<td>CMSC</td>
<td>5373</td>
<td>Web Server Programming</td>
</tr>
<tr>
<td>CMSC</td>
<td>5423</td>
<td>Software Engineering II</td>
</tr>
<tr>
<td>CMSC</td>
<td>5433</td>
<td>Software Architecture &amp; Design</td>
</tr>
</tbody>
</table>

General Electives ..................................................... 3 Hours
Choose 3 hours from the list below:

<table>
<thead>
<tr>
<th>Course Prefix</th>
<th>Course No.</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO</td>
<td>5xxx</td>
<td>Graduate BIO Course</td>
</tr>
<tr>
<td>BME</td>
<td>5xxx</td>
<td>Graduate BME Course</td>
</tr>
<tr>
<td>CHEM</td>
<td>5xxx</td>
<td>Graduate CHEM Course</td>
</tr>
<tr>
<td>CMSC</td>
<td>5xxx</td>
<td>Graduate CMSC Course</td>
</tr>
<tr>
<td>ENGR</td>
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<td>Graduate ENGR Course</td>
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<tr>
<td>MATH</td>
<td>5xxx</td>
<td>Graduate MATH Course</td>
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<tr>
<td>PHY</td>
<td>5xxx</td>
<td>Graduate PHY Course</td>
</tr>
<tr>
<td>STAT</td>
<td>5xxx</td>
<td>Graduate STAT Course</td>
</tr>
</tbody>
</table>

TOTAL HOURS REQUIRED ............................................. 33-36 HOURS