MASTER OF SCIENCE IN ENGINEERING MANAGEMENT

Master of Science in Engineering Management

Point of Contact: Yong Zhu, Ph.D.

The Master of Science in Engineering Management is a 30 credit-hour program that integrates 15 hours of mandatory engineering management courses with 15 hours of technical electives or graduate project. The program is committed to the successful development of the upward-bound technical talent in industry. Entering students enjoy a curricular breadth and flexibility unique to Wilkes University.

The program emphases include decision processes, systems modeling, uncertainty analysis and risk assessment. Graduates will learn to effectively address and communicate the growing complexities of organizational performance and decision processes as they prepare for leadership roles in technical staff and technology management such as project planning and execution, production flow, logistics, demand forecasting, and quality improvement. The program also prepares students for further academic endeavors that may lead to post-graduate or doctoral studies in Engineering Management, Industrial Engineering or other related disciplines.

Admission Requirements

An ABET-accredited baccalaureate Engineering degree is preferred but not required. Applicants with other four-year degree preparations (e.g. BS or BA) may meet entrance requirements once the necessary foundation content is satisfied. Entry standards include the following:

1. Experience:
   Post-baccalaureate industrial/professional work experience preferred.

2. Application:
   Submitted with payment of appropriate application fee. (International students: Refer to the International Students section of this bulletin for additional admission requirements).

3. Academic Preparation-Official Transcripts are Required:
   - Demonstrate satisfactory performance as an undergraduate as evidence with a complete set of official undergraduate transcripts to be submitted to the Graduate Admissions Office.
   - To be accepted on a regular basis, candidates for the degree must have obtained a cumulative GPA of at least 3.0. Prospective students with a GPA of less than 3.0 may be conditionally accepted into the program. To be reclassified to regular status, the conditionally accepted student must attain no less than a 3.0 for each of the first six credit hours of graduate coursework taken. Failure to maintain the minimum 3.0 in any course will result in dismissal of the conditionally accepted student.

Applicants not holding an ABET-accredited undergraduate or graduate engineering degree must demonstrate or accrue the following preparation prior to enrolling in EGM courses:

   - Mathematics: 12 hours (calculus, differential equations and statistics, or approved equivalent)
   - Engineering economy or equivalent; 3 hours
   - Science (chemistry and/or physics): 12 hours of approved coursework
   - Engineering: 12 hours of approved coursework
   - Demonstrated ability with computer programming and/or numerical analysis techniques

4. Professional Recommendations:
   Applicants must submit two letters of professional recommendation.

Degree Requirements

The Masters of Science Degree in Engineering Management requires a minimum of thirty (30) credit hours consisting of fifteen (15) credits in CORE courses and fifteen (15) elective credit hours.

Typical Course Sequence

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>[[EGM-536]] – Product Design &amp; Development</td>
<td>[[EGM-515]] – Quality Processes for Design and Production</td>
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<tr>
<td>Technical Elective</td>
<td>Technical Elective</td>
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<tr>
<th>Third Semester</th>
<th>Fourth Semester</th>
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<tbody>
<tr>
<td>[[EGM-516]] – Management Science</td>
<td>[[EGM-580]] – Graduate Project</td>
</tr>
<tr>
<td>Technical Elective</td>
<td>OR Technical Elective</td>
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<td>Technical Elective</td>
<td>Technical Elective</td>
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Technical Elective Courses

- [[EGM-525]], [[EGM-530]], [[EGM-534]], [[EGM-536]], [[EGM-538]], [[EGM-540]], [[EGM-544]], [[EGM-545]] and other advisor approved electives.

Financial Aid

A limited number of assistantships are available for full-time students. Applicants should possess superior academic qualifications and provide good scores in the GRE.