Engineering and Manufacturing Management Certificate

Requirements: 12 Credit Hours

Program

A certificate at the graduate level is a coherent set of courses related to work in a particular field. The Graduate Certificate program offers two certificate options each of which consists of 12 credits. Either option consists of two required courses and two courses chosen from a list of restricted electives. The two options are Engineering and Manufacturing Management and Occupational Safety and Environmental Compliance.

In the case of the Engineering and Manufacturing Management graduate certificate, Industrial Production Manager, Engineering Manager, and Industrial Engineer are position titles that traditionally include responsibility for managing engineering and manufacturing operations in the public and private sectors. A related degree or post-secondary and/or graduate academic preparation is highly desirable or required. The intent of the Graduate Certificate in Occupational Safety and Environmental Compliance is to enhance the academic training of technical managers and engineers specifically in the field of safety and environmental compliance. Health and Safety Engineer, Environmental Engineer, and Industrial Safety Manager are position titles that traditionally include responsibility for occupational safety and environmental compliance. Although a degree in safety or environmental compliance is not typically required in such positions, post-secondary and/or graduate academic preparation in these areas is highly desirable or required.

Admission Requirements

Students seeking a Graduate Certificate would be admitted by COGS under a Non-Degree Certificate admission status. Students pursuing the Graduate Certificate in Engineering and Manufacturing Management would be required to hold an undergraduate or graduate degree from an accredited institution. They would be required to have an undergraduate GPA of 2.75 or higher and/or a graduate GPA of 3.0 or higher. Standardized test scores such as the GMAT or GRE would not be required for the Graduate Certificate. Admission as Non-Degree Certificate does not guarantee subsequent admission to a graduate degree program. That is a separate process and different criteria must be met.

- Upon recommendation of the Graduate Program Director and approval from the Dean of the College of Graduate Studies, credit earned in a certificate program may be applied to a graduate degree program.
- Upon recommendation of the Graduate Program Director and approval from the Dean of the College of Graduate Studies, a maximum of six (6) credits earned before the student entered the certificate program may be applied to that program.
- The minimum grade requirements for the graduate certificate are the same as those for graduate degrees. For graduate credit, the grade in a course must be "C" or higher. To remain in good standing, a student must maintain a cumulative GPA of 3.0 or higher.
- To be awarded a graduate certificate, the student
  a. must not be on probation,
  b. must have a cumulative GPA of 3.0 or higher on graduate coursework and on coursework applied to the certificate,
  c. must meet all the requirements of the College of Graduate Studies and the student's certificate program, and
  d. must be enrolled during the semester in which the certificate requirements are completed.

- The College of Graduate Studies residence requirements and the requirements for a comprehensive final examination do not automatically apply to the graduate certificate program.

Program of Study

The Graduate Certificate in Engineering and Manufacturing Management would require a total of 12 credits. This would include 6 credits of required courses and 6 credits of restricted electives. The proposed courses are as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TMAE 5134G</td>
<td>Lean World Class Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>TMAE 7531</td>
<td>Technical Management and Leadership</td>
<td>3</td>
</tr>
<tr>
<td>BUSA 7030</td>
<td>Special Topics in Business</td>
<td></td>
</tr>
<tr>
<td>MGNT 7430</td>
<td>Management of Operations for Competitive Advantage</td>
<td></td>
</tr>
<tr>
<td>TMAE 5133G</td>
<td>Production Planning and Facilities Design</td>
<td></td>
</tr>
<tr>
<td>TMAE 7430</td>
<td>Industrial Case Study Analysis</td>
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<tr>
<td>TMAE 7431</td>
<td>Advanced Quality Control</td>
<td></td>
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<tr>
<td>TMAE 7432</td>
<td>Advanced Engineering Economy</td>
<td></td>
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<tr>
<td>TMFG 5230G</td>
<td>International Manufacturing</td>
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</tbody>
</table>

Total Credit Hours 12

Advisement

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