Engineering Management, BSE

ESEMGBSE

Program Description

The program in engineering management is designed to provide the graduate with skills for effective management and leadership of engineering-driven enterprises. The curriculum provides a breadth of engineering science and design with depth in one specific area suitable for practice. This knowledge is augmented with an understanding of business practices, organizational behavior and management skills to enable the graduate to succeed in the management of a scientific or engineering enterprise. Topics covered include project and resource management, financial engineering, risk management, configuration management, service plans, product liability, entrepreneurship and operations management, in addition to product design and process development. The graduate will leave with a deep understanding of at least one industry sector based upon the focus area courses selected by the student.


At a Glance

- **College/School:** Ira A. Fulton Schools of Engineering
- **Location:** Tempe campus or online

- **Additional Program Fee:** Yes
- **Second Language Requirement:** No
- **First Required Math Course:** MAT 265 - Calculus for Engineers I
- **Math Intensity:** Substantial

Required Courses (Major Map)

2017 - 2018 Major Map (On-campus)
2017 - 2018 Major Map (Online)
Concurrent Option
Major Map (Archives)
Concurrent Degrees

This degree is also offered as concurrent degree program with:

Economics, BS

See degrees side by side

Concurrent Degree Major Map

Accelerated Degrees

This degree is also offered in an accelerated format with:

Industrial Engineering, MS

Acceptance to the graduate program requires a separate application. During their junior and senior years, eligible students will be advised by their academic departments to apply.

Admission Requirements

General University Admission Requirements:

All students are required to meet general university admission requirements.

Freshman | Transfer | International | Readmission

Additional Requirements:

The admission requirements for majors in the Ira A. Fulton Schools of Engineering are higher than minimum university admission requirements. Students should select a second major choice when applying for admission to a degree program in the Ira A. Fulton Schools of Engineering.

International students may have an additional English-language proficiency criterion. Foreign nationals must meet the same admission requirements shown below with the possible additional requirement of a minimum TOEFL score. If the university requires a TOEFL score from the applicant (see https://students.asu.edu/international/future/undergrad), then admission to engineering requires a minimum TOEFL score of 550 (paper-based), 79 on iBT (Internet-based) or a minimum IELTS score of 6.5.

Freshman Admission:

1. minimum 1210 SAT combined evidence-based reading and writing plus math score (or 1140 if taken prior to March 5, 2016) or minimum 24 ACT combined score or 3.00 minimum ABOR GPA or class ranking in top 25 percent of high school class, and
2. Admission may be granted with one deficiency in no more than two competency areas. Deficiencies in both math and laboratory science are not acceptable.
Transfer Admission Requirements

Transfer students with fewer than 24 transferable college credit hours:

1. minimum transfer GPA of 2.75 for less than 24 transfer hours, and
2. satisfy the freshmen admission requirements

Transfer students with more than 24 transferable college credit hours:

1. minimum transfer GPA of 2.75 for 24 or more transfer hours, and
2. if Admission Services requires submission of a high school transcript, admission may be granted with one deficiency in no more than two competency areas. Deficiencies in both math and laboratory science are not acceptable.

Concurrent degree admission requirements: Engineering Management, BSE and Economics, BS:

1. minimum 1250 SAT combined evidence-based reading and writing plus math score (650 minimum on SAT math) or minimum 29 ACT combined score (29 minimum on ACT math), and
2. 3.00 minimum ABOR GPA

Change of Major Requirements

Current ASU students should refer to https://engineering.asu.edu/admission-requirements/ for the major change requirements for this program.

Attend Online

ASU offers this program in an online format with multiple enrollment sessions throughout the year. Applicants may view the program description and request more information here.

Transfer Agreements

Career Opportunities
The engineering management graduate will be prepared to begin as a:

- production supervisor
- project management team member or lead
- supply logistics engineer
- system specification and customer relationship management specialist or similar role

The graduate will be ready to progress through successively higher levels of management responsibility.

Career examples include but are not limited to those shown in the following list. Advanced degrees or certifications may be required for academic or clinical positions.

<table>
<thead>
<tr>
<th>Career</th>
<th>*Growth</th>
<th>*Median Salary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compliance Manager</td>
<td>3.9%</td>
<td>$105,060</td>
</tr>
<tr>
<td>Construction Manager</td>
<td>4.8%</td>
<td>$85,630</td>
</tr>
<tr>
<td>Environmental Engineer</td>
<td>12.4%</td>
<td>$83,360</td>
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<tr>
<td>General Manager (GM)</td>
<td>7.1%</td>
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<tr>
<td>IT Project Manager</td>
<td>3.3%</td>
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<tr>
<td>Information Technology Manager (IT Manager)</td>
<td>15.4%</td>
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<tr>
<td>Quality Control Manager</td>
<td></td>
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<tr>
<td>Regulatory Affairs Manager</td>
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<td>$105,060</td>
</tr>
<tr>
<td>Wind Energy Project Manager</td>
<td>3.9%</td>
<td>$105,060</td>
</tr>
</tbody>
</table>

* Data obtained from the Occupational Information Network (O*NET) under sponsorship of the U.S. Department of Labor/Employment and Training Administration (USDOL/ETA).

☀ Bright Outlook ☀ Green Occupation

Contact Information

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