Engineering Management, BSE

Program Description

The BSE 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. Graduates have a deep understanding of at least one industry sector based upon the focus area courses.


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)

2019 - 2020 Major Map (On-campus)
2019 - 2020 Major Map (Online)
Concurrent Degree Options

This degree is also offered as concurrent degree program with:

Economics, BS

Accelerated Degree Options

This program allows students to obtain both a bachelor's and master's degree in as little as five years. It is offered as an accelerated bachelor's and master's degree with:

Industrial Engineering, MS

Acceptance to the graduate program requires a separate application. During their junior year, 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://admission.asu.edu/international/undergrad-apply), 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 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

Admission requirements for many majors in the Ira A. Fulton Schools of Engineering are higher than university admission standards: [https://engineering.asu.edu/admission-requirements/](https://engineering.asu.edu/admission-requirements/).

Students should refer to [https://changingmajors.asu.edu/request](https://changingmajors.asu.edu/request) for information about how to change a major to 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 Options

ASU is committed to helping students thrive by offering tools that allow personalization of the transfer path to ASU. Students may use the Transfer Map search to outline a list of recommended courses to take prior to transfer.

ASU has transfer partnerships in Arizona and across the country to create a simplified transfer experience for students. These pathway programs include exclusive benefits, tools and resources, and help students save time and money in their college journey. Students may learn more about these programs by visiting the admission site: https://admission.asu.edu/transfer/pathway-programs.

Global Opportunities

Global Experience

With over 250 programs in more than 65 countries (ranging from one week to one year), study abroad is possible for all ASU students wishing to gain global skills and knowledge in preparation for a 21st-century career. Students earn ASU credit for completed courses, while staying on track for graduation, and may apply financial aid and scholarships toward program costs. https://mystudyabroad.asu.edu/

Career Opportunities

An engineering management graduate is prepared to begin a career as a:

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

Graduates are 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></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Position</td>
<td>Average Increase</td>
<td>Average Salary</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>------------------</td>
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</tr>
<tr>
<td>Compliance Manager</td>
<td>8.0%</td>
<td>$105,610</td>
</tr>
<tr>
<td>Construction Manager</td>
<td>11.1%</td>
<td>$91,370</td>
</tr>
<tr>
<td>Environmental Engineer</td>
<td>8.3%</td>
<td>$86,800</td>
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<tr>
<td>General Manager (GM)</td>
<td>9.1%</td>
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<tr>
<td>IT Project Manager</td>
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<td>Information Technology Manager (IT Manager)</td>
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<td>Quality Control Manager</td>
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<tr>
<td>Regulatory Affairs Manager</td>
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<td>$105,610</td>
</tr>
<tr>
<td>Wind Energy Project Manager</td>
<td>8.0%</td>
<td>$105,610</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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