2014-2015 Catalog Year - MAPP
Industrial Engineering (BSE)

ASU Major
Industrial Engineering, BSE - [Ira A. Fulton Schools of Engineering]

Special Requirements
Completion of the Maricopa to ASU Engineering Pathway and all special requirements meets ASU major map requirements and guarantees admission to the Industrial Engineering BSE degree program. Note: Engineering Core Courses should be completed prior to enrolling in any additional lower division requirement courses. While requirements listed will meet ASU degree requirements, only 64 credit hours are transferable to ASU. Special Requirements: 3.0 transfer GPA as calculated by ASU for admissions. All courses must be completed with a grade of “C” or better.

Maricopa Community College District Course Requirements

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Pathway</th>
<th>AGEC-S</th>
<th>Program Reqs</th>
<th>ASU Trk</th>
<th>ASU LD</th>
<th>Min. Grade</th>
<th>Notes</th>
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<tbody>
<tr>
<td><strong>Engineering Core</strong></td>
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<tr>
<td>ENG 101: First-Year Composition</td>
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<tr>
<td>ENG 1101 OR ENG 107: First-Year Composition for ESL</td>
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<tr>
<td>ECE 102: Engineering Analysis Tools An AND ECE 103: Engineering Problem Solving A</td>
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<td>EGR 1102</td>
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<tr>
<td>MAT 221: Calculus With Analytic Geometry</td>
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<td>Course Code</td>
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<td>Requirement</td>
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<td>MAT 231:</td>
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<td>PHY 121:</td>
<td>University Physics I: Mechanics</td>
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<td>MAT 277:</td>
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<td>PHY 1131</td>
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<td>CHM 151:</td>
<td>General Chemistry I AND CHM 151LL:</td>
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<tr>
<td>CHM 152:</td>
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<tr>
<td>Humanities and Fine Arts AND Social and Behavioral Sciences (HU)</td>
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</tbody>
</table>

Humanities, Arts and Design (HU) and Social Behavioral Sciences (SB) requirements: select courses that ensure completion of all three awareness areas (historical, global and cultural).
### Sciences AND Awareness Area

**Additional Lower Division Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 181</td>
<td>General Biology (Majors) I</td>
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<tr>
<td>BIO 182</td>
<td>General Biology (Majors) II</td>
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<tr>
<td>OR</td>
<td>ECE 111: Bioengineering Systems OR GLG 101:</td>
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<td></td>
<td>Introduction To Geology I - P OR GLG 102: Intro</td>
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<td></td>
<td>To Geology II-Historical OR GLG 110: Geologic</td>
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<td></td>
<td>Disasters &amp; Environment</td>
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<tr>
<td>CSC 110</td>
<td>Introduction To Computer Science</td>
<td>3</td>
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<tr>
<td>CSC 120</td>
<td>Digital Design Fundamentals OR CSC 240: Introduction To Different Pro OR EEE 202: Circuits And Devices</td>
<td>0-5</td>
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<tr>
<td>CSC 205</td>
<td>Object Oriented Programming and Data Structures</td>
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<tr>
<td>ECN 211</td>
<td>Macroeconomic Principles</td>
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<tr>
<td>ECE 214</td>
<td>Engineering Mechanics</td>
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<tr>
<td>MAT 225</td>
<td>Elementary Linear Algebra</td>
<td>3</td>
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</table>

Additional Lower Division Requirements: Complete.
additional lower division requirements not to exceed 64 total transfer credits. Students should complete MAT 225, CSC 110, CSC 205 and ECN 211 before taking other additional courses listed. All other additional requirements listed can be completed after transfer to ASU.

<table>
<thead>
<tr>
<th>Humanities and Fine Arts AND Awareness Area</th>
<th>0-3</th>
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<tbody>
<tr>
<td>Social and Behavioral Sciences AND Awareness Area</td>
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<tr>
<td>Required Credits</td>
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<td></td>
</tr>
</tbody>
</table>

ASU will accept transfer credit for traditional course work you have successfully completed at regionally accredited institutions of higher education. The applicability of the specific course toward a degree depends on the requirements of the department, division, college or school in which you are enrolled at ASU. Students are responsible for working with their advisor to confirm all transfer transcripts are on file with ASU. For more information: https://transfer.asu.edu/credits