# B.S. in INDUSTRIAL ENGINEERING
## Suggested 2-Year Academic Flowchart for Transfers

This Transfer Student Flowchart assumes equivalents for the courses below have been transferred to Cal Poly. Anything not transferred in needs to be added to this flowchart, which may result in an additional quarter/s. Check your DPR to verify credit:

<table>
<thead>
<tr>
<th>Course Title</th>
<th>GE Area</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MATH 141</td>
<td>GE AREA A1</td>
<td></td>
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<tr>
<td>MATH 142</td>
<td>GE AREA A2</td>
<td></td>
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<tr>
<td>MATH 143</td>
<td>GE AREA C1</td>
<td></td>
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<tr>
<td>MATH 241</td>
<td>GE AREA C2</td>
<td></td>
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<tr>
<td>MATH 244</td>
<td>GE AREA C2</td>
<td></td>
</tr>
<tr>
<td>PHYS 141</td>
<td>GE AREA D1</td>
<td></td>
</tr>
<tr>
<td>PHYS 132</td>
<td>GE AREA D2</td>
<td></td>
</tr>
<tr>
<td>CHEM 124</td>
<td>GE AREA D2</td>
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<tr>
<td>MATE 210</td>
<td>Electro.</td>
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<tr>
<td>MATE 215</td>
<td>Electro.</td>
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<td>ME 211</td>
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<td>ME 212</td>
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<td>CE 204</td>
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<td>EE 251</td>
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<td>CSC 232</td>
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<tr>
<td>PSY 201 or 202 (E)</td>
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<tr>
<td>ENGL 149 (A3)</td>
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<tr>
<td>BIO/BMED 213 (B2)</td>
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</tbody>
</table>

### Notes:
- Most General Education Courses Can Be Taken in Any Order as Long as Prerequisites Are Met
- One Course from Each of the Following GE Areas Must Be Completed: A1, A2, C1, C2, C3, C4, D1, D2, D3, C4 should be taken only after Junior standing is reached (90 units).
- Refer to online catalog for GE course selection, United States Cultural Plurism (USCP) and Graduation Writing Requirement (GWR).
- USCP requirement can be satisfied by some (but not all) courses within GE categories: C1, Upper-Division C, D1, D2, D Elective, or E
- Course can be taken previously or concurrently.
- One course from each of the following GE areas must be completed: A1, A2, C1, Upper-Division C, D1, D2, D Elective.
- One course from each of the following GE areas must be completed: A1, A2, C1, Upper-Division C, D1, D2, D Elective.
- 13 units Technical Electives required. At least 6 units upper level (300-level or above) engineering/computer science. Max 4 units 300-level+ from outside College of Engineering or lower level (100 or 200) engineering/computer science. IME 400/500 require special problems and substitution forms; no more than 4 units permitted. Consultation with advisor recommended prior to selecting courses.
- ENGR 459, ENGR 460, and ENGR 461 (6 units) or ENGR 463, ENGR 464, and ENGR 465 (6 units) may substitute for IME 481, IME 482, IME 483 (6 units)

### Legend:
- Course Title (Prerequisite)
- Major
- Support
- General Ed.

### Year 1

#### Fall
- Intro to IE and Manufacturing (IME 101)
- Mfg. Proc. Net Shape (IME 141)
- Financial Decision Making for Engineers (IME 315)
- Probability & Stats for Engineers & Scientists (STAT 321)
- Operations Research II (IME 305)

#### Winter
- Intro to Design & Manufacturing (IME 144)
- Operations Research I (IME 301)
- GE Upper-Division C (IME 315)
- GE Upper-Division C (IME 315)
- Facility Planning & Design (IME 443)

#### Spring
- Human Factors Engineering (IME 319)
- Data Management & System Design (IME 312)
- Basic Electronics Manufacturing (IME 156)
- Operations Research II (IME 305)
- Facility Planning & Design (IME 443)

### Year 2

#### Fall
- Senior Design Project I (IME 481)
- Simul. Senior Design Project I (IME 481)
- GE Upper-Division C (IME 315)
- GE Upper-Division C (IME 315)
- Facility Planning & Design (IME 443)

#### Winter
- GE Upper-Division C (IME 315)
- Facility Planning & Design (IME 443)

#### Spring
- Senior Design Project II (IME 482)
- Senior Design Project II (IME 482)
- Senior Design Project II (IME 482)
- Senior Design Project II (IME 482)
- Senior Design Project II (IME 482)

### Graduation Writing Requirement
- GWR (Students can attempt to fulfill the requirement after 90 earned units; students should complete the requirement before senior year)