

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

DATE UPDATED:

Please note: This flowchart is one example of how students can graduate in 2 years. Many times transfer students need longer than this. We encourage students to use this as a tool in creating their own unique quarter by quarter graduation plan.

Updated 7/23/19

	YEAR 1			YEAR 2			
	Fall	Winter	Spring	Fall	Winter	Spring	
<p><b>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:</b></p> <p> <input type="checkbox"/> MATH 141      <input type="checkbox"/> GE AREA A1  <input type="checkbox"/> MATH 142      <input type="checkbox"/> GE AREA A2  <input type="checkbox"/> MATH 143      <input type="checkbox"/> GE AREA C1  <input type="checkbox"/> MATH 241      <input type="checkbox"/> GE AREA C2  <input type="checkbox"/> MATH 244      <input type="checkbox"/> GE AREA LOWER-DIVISION C  <input type="checkbox"/> PHYS 141      <input type="checkbox"/> GE AREA D1  <input type="checkbox"/> PHYS 132      <input type="checkbox"/> GE AREA D2  <input type="checkbox"/> PHYS 133      <input type="checkbox"/> GE AREA D ELECTIVE  <input type="checkbox"/> CHEM 124  <input type="checkbox"/> MATE 210  <input type="checkbox"/> MATE 215  <input type="checkbox"/> ME 211  <input type="checkbox"/> ME 212  <input type="checkbox"/> CE 204  <input type="checkbox"/> EE 201  <input type="checkbox"/> EE 251  <input type="checkbox"/> CSC 232  <input type="checkbox"/> PSY 201 or 202 (E)  <input type="checkbox"/> ENGL 149 (A3)  <input type="checkbox"/> BIO/BMED 213 (B2)                 </p>	<p><i>Intro to IE and MFGE</i> <b>IME 101 (1)</b></p>	<p><i>Intro to Design &amp; Manufacturing</i> <b>IME 144 (4)</b> <small>(Recom: IME 140 or ME 129)</small></p>	<p><i>Human Factors Engineering</i> <b>IME 319 (3)</b> <small>(PSY 201 or 202; Jr Standing)</small></p>	<p><i>Senior Design Project I</i> <b>IME 481 (2)<sup>2</sup></b> <small>(Sr. Standing, Instr. consent)</small></p>	<p><i>Senior Design Project II</i> <b>IME 482 (2)<sup>2</sup></b> <small>(IME 481)</small></p>	<p><i>Senior Design Project II</i> <b>IME 483 (2)<sup>2</sup></b> <small>(IME 482)</small></p>	
	<p><i>Mfg. Proc: Net Shape</i> <b>IME 141 (1)</b></p>	<p><i>Operations Research I</i> <b>IME 301 (4)</b> <small>(MATH 244)</small></p>	<p><i>Data Management &amp; System Design</i> <b>IME 312 (4)</b> <small>(CSC 232)</small></p>	<p><i>Applications of Enterprise Analytics</i> <b>IME 372 (4)</b> <small>(IME 212, 312, 326 &amp; MATH 244)</small></p>	<p><i>Production Planning &amp; Control Systems</i> <b>IME 410 (4)</b> <small>(IME 342 or 305)</small></p>	<p><i>Supply Chain &amp; Logistics Management</i> <b>IME 417 (4)</b> <small>(IME 342 or 410)</small></p>	
	<p><i>Process Improvement Fundamentals</i> <b>IME 223 (4)</b> <small>(MATH 141, Recom: IME 101)</small></p>	<p><i>Intro to Enterprise Analytics</i> <b>IME 212 (4)</b> <small>(CSC 232)</small></p>	<p><i>Engineering Test Design &amp; Analysis</i> <b>IME 326 (4)</b> <small>(STAT 321 w/min C-)</small></p>	<p><i>Simulation</i> <b>IME 420 (4)</b> <small>(IME 305; 326 or 327)</small></p>	<p><b>Approved Technical Elective (4)<sup>1</sup></b></p>	<p><i>Quality Engineering</i> <b>IME 430 (4)</b> <small>(IME 326, 327, 503, STAT 302, or 312)</small></p>	
	<p><i>Financial Decision Making for Engineers</i> <b>IME 315 (3)</b> <small>(MATH 142)</small></p>	<p><b>GE Upper-Division C (4)**</b> <small>(combine with USCP if still needed)</small></p>	<p><i>Basic Electronics Manufacturing</i> <b>IME 156 (2)</b></p>	<p><b>Approved Technical Elective (2)<sup>1</sup></b></p>	<p><i>Ergonomics Laboratory</i> <b>IME 429 (1)</b> <small>(IME 319; &amp; 326 or 327)</small></p>	<p><b>Approved Technical Elective (4)<sup>1</sup></b></p>	
	<p><i>Probability &amp; Stats for Engineers &amp; Scientists</i> <b>STAT 321 (4)</b> <small>(MATH 142) [B6]</small></p>		<p><i>Operations Research II</i> <b>IME 305 (4)</b> <small>(IME 301 or STAT 321)</small></p>	<p><i>Facilities Planning &amp; Design</i> <b>IME 443 (4)</b> <small>(IME 144; 223; 314; &amp; 305 or 342. Recom: IME 319 &amp; 420)</small></p>	<p><i>Facilities Planning &amp; Design</i> <b>IME 443 (4)</b> <small>(IME 144; 223; 314; &amp; 305 or 342. Recom: IME 319 &amp; 420)</small></p>	<p><b>Approved Technical Elective (3)<sup>1</sup></b></p>	
	<p><b>Graduation Writing Requirement GWR*</b> <small>(Students can attempt to fulfill the requirement after 90 earned units; students should complete the requirement before senior year)</small></p>						
		13	16	17	16	15	17

**Notes:**

**MOST GENERAL EDUCATION COURSES CAN BE TAKEN IN ANY ORDER AS LONG AS PREREQUISITES ARE MET**

\* Refer to current catalog for prerequisites.

\*\* 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 Pluralism (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.

<sup>1</sup> 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.

<sup>2</sup> 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	
Course # (Units)	Major
(Prerequisite)	Support
[GE Area]	General Ed.