

**NOTE:** This document can be used as a compact display of courses and other curricular requirements at the time of publication of the 2019-2020 catalog. The Degree Progress Report must be used to track students' progress in all degree requirements, throughout their Cal Poly career.

**Note: No major or support courses may be selected as credit/no credit.**

<b>MAJOR COURSES (82)</b>	<i>Units</i>
IME 101 Intro to Industr & Mfg Engineering	1
IME 141 Manufacturing Processes: Net Shape	1
IME 144 Intro to Design & Mfg	4
IME 156 Basic Electronics Manufacturing	2
IME 212 Intro. To Enterprise Analytics	4
IME 223 Process Improvement Fundamentals	4
IME 301 Operations Research I	4
IME 305 Operations Research II	4
IME 312 Data Management & System Design	4
IME 315 Financial Decision Making for Eng.	3
IME 319 Human Factors Engineering	3
IME 326 Engineering Test Design & Analysis	4
IME 372 Applications of Enterprise Analytics	4
IME 410 Production Planning & Control Sys	4
IME 417 Supply Chain & Logistics Management	4
IME 420 Simulation	4
IME 429 Ergonomics Laboratory	1
IME 430 Quality Engineering	4
IME 443 Facilities Planning and Design	4
IME 481 Senior Design Project I <sup>5,6</sup>	2
IME 482 Senior Design Project II <sup>5,6</sup>	2
IME 483 Senior Design Project III <sup>5,6</sup>	2
Technical Electives <sup>2,3</sup> (Select from list on reverse)	13

**SUPPORT COURSES (72)**

Select from the following <sup>7</sup> : CE 204, EE 321, ME 212	6
BIO 213 <i>and</i> BMED 213 (B2) <sup>1</sup>	2
CHEM 124 General Chem for Phy Sci & Eng I (B3/B4) <sup>1</sup>	4
CSC 232 Computer Programming for Scientists & Engineers	3
EE 201 Electric Circuit Theory	3
EE 251 Electric Circuits Laboratory	1
ENGL 149 Technical Writing for Engineers (A3) <sup>1</sup>	4
MATE 210 Materials Engineering <i>and</i> MATE 215 Materials Laboratory I	3
MATH 141 Calculus I (B1) <sup>1</sup>	4
MATH 142 Calculus II (B1) <sup>1</sup>	4
MATH 143 Calculus III (Add'l Area B) <sup>1</sup>	4
MATH 241 Calculus IV	4
MATH 244 Linear Analysis I	4
ME 211 Engineering Statics	3
PHYS 141 General Physics IA (Add'l Area B) <sup>1</sup>	4
PHYS 132 General Physics II	4
PHYS 133 General Physics III	4
PSY 201 General Psv. or PSY 202 General Psychology (E) <sup>1</sup>	4
STAT 321 Probability and Stats for Engineers & Scientists (B6) <sup>1</sup>	4

**GENERAL EDUCATION (GE)**

**36**

72 units required, 36 of which are specified in Major/Support

Refer to current schedule or <http://www.ge.calpoly.edu> to choose GE courses. You will not receive credit for courses not on the approved lists.

**Minimum of 8 units required at the 300 level.**

**Area A Communication**

**8**

A1 Expository Writing .....	4
A2 Oral Communication .....	4
A3 Reasoning, Argu & Writing (4 units in Support) <sup>1</sup>	

**Area B Math, Science, & Quantitative Reasoning**

28 units are listed in Support<sup>1</sup>

**Area C Arts and Humanities**

**16**

C1 Literature .....	4
C2 Philosophy .....	4
C3 Fine/Performing Arts .....	4
C4 Upper-division elective.....	4

**Area D Society and the Individual**

**12**

D1 The American Exp (40404) .....	4
D2 Political Economy .....	4
D3 Comp Social Institutions .....	4

**Area E Lifelong Learning and Self-Dev (4 units in Support)<sup>1</sup>**  
(formerly Area D4)

**FREE ELECTIVES .....**

**0**

<sup>1</sup> Required in Support; also satisfies GE

<sup>2</sup> Courses meeting technical electives may not be used to satisfy other major, support, or general education requirements (no double counting of coursework).

<sup>3</sup> Consultation with advisor is recommended prior to selecting technical electives; bear in mind your selections may impact pursuit of post-baccalaureate studies and/or goals. Upper division courses not on this list may substitute as technical electives if approved by advisor and IME department chair.

<sup>4</sup> IME 400 requires a special problems form and no more than 4 total units are allowed.

<sup>5</sup> ENGR 459, ENGR 460, and ENGR 461 (6) may substitute for IME 481, IME 482, IME 483 (6).

<sup>6</sup> ENGR 463, ENGR 464, ENGR 465 (6) may substitute for IME 481, IME 482, and IME 483 (6).

<sup>7</sup> No course credits may be used simultaneously to satisfy both engineering and technical elective requirements.

**OTHER DEGREE REQUIREMENTS:**

- Cal Poly, Higher Ed, and Major GPA must all be at least 2.00
- For students admitted Fall 2016 and after, a grade of C- or higher is required in GE A1, A2, A3, and one GE B1 course

**All students must complete:**

- United States Cultural Pluralism Requirement
- Graduation Writing Requirement
- 60 units Upper Division (any 300-400 level classes)
- Upper Division units in the Major: 27
- Residency Requirements: See Degree Progress Report for details

**TECHNICAL ELECTIVES<sup>2,3,7</sup>**

Select from Category A (8-13 units) & Category B (0-5 units) below:

## Category A (8-13 units)

EE 321, 361, 434;

IME 303, 335, 336, 356, 400<sup>4</sup>, 408, 409, 416, 418, 424, 428, 432,  
435, 451, 457, 458, 470, 471, 510, 511, 520, 527, 541, 542, 543  
544, 545;

MATE 410;

ME 302, 305, 341

## Category B (0-5 units)

AG/ISLA/EDES/ENGR/SCM/UNIV 350;

BUS/ENGR 310;

BUS 311, 346, 382, 402;

CE 204, 207;

IME 401, 421, 441, 460;

MATH 344, 350;

ME 212;

PSY 350;

STAT 324, 330, 331, 416