

NOTE: This document can be used as a compact display of courses and other curricular requirements. 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.

MAJOR COURSES (80)	<i>Units</i>
IME 101 Intro to Industr & Mfg Engineering	1
IME 140 Graphics Communication & Modeling	2
IME 141 Manufacturing Processes: Net Shape	1
IME 144 Intro to Design & Mfg	4
IME 156 <i>or</i> IME 157 ⁶	2-4
IME 223 Process Improvement Fundamentals	4
IME 239 Industrial Costs & Controls	3
IME 301 Operations Research I	4
IME 303 Project Organization & Management	4
IME 312 Data Management & System Design	4
IME 314 Engineering Economics	3
IME 319 Human Factors Engineering	3
IME 326 Engineering Test Design & Analysis	4
IME 405 Operations Research II	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 Project Design Laboratory I	2
IME 482 Senior Project Design Laboratory II	3
Technical Electives ^{2,3,4,5,6} (<i>Select from list</i>)	9-11

SUPPORT COURSES (74/75)

BIO 213 <i>and</i> ENGR/BRAE 213 (B2) ¹	2
CE 204 Mechanics of Materials I	3
CHEM 124 General Chem for the Engineering I (B3/B4) ¹	4
CSC 232 Computer Programming for Scientists & Engineers	3
EE 201 Electric Circuit Theory	3
EE 251 Electric Circuits Laboratory	1
EE 321 Electronics	3
ENGL 149 Technical Writing for Engineers (A3) ¹	4
MATH 141 Calculus I (B1) ¹	4
MATH 142 Calculus II (B1) ¹	4
MATH 143 Calculus III (Add'l Area B) ¹	4
MATH 241 Calculus IV	4
MATH 244 Linear Analysis I	4
ME 211 Engineering Statics	3
ME 212 Engineering Dynamics	3
ME 302 Thermodynamics I <i>or</i> MATE 210 Materials Engr <i>and</i> MATE 215 Materials Lab	3 <i>or</i> 3/1
PHYS 141 General Physics IA (Add'l Area B) ¹	4
PHYS 132 General Physics II	4
PHYS 133 General Physics III	4
PSY 201/202 General Psychology (D4) ¹	4
STAT 321 Probability and Stats for Engineers & Scientists (B6) ¹	4

GENERAL EDUCATION (GE)

36

72 units required, 36 of which are 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)¹

Area B Science and Mathematics (no add'l units req'd)

28 units are listed in Support

Area C Arts and Humanities

16

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

Area D/E Society and the Individual

12

- D1 The American Exp (40404) 4
- D2 Political Economy 4
- D3 Comp Social Institutions 4
- D4 Self Dev (CSU Area E) (4 units in Support)¹.....

FREE ELECTIVES **0**

OTHER DEGREE REQUIREMENTS:

- **Cal Poly, Higher Ed, and Major GPA must all be at least 2.00**

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^{2,3,4,5,6}

- CE 207;
- BUS 310, 311, 326, 382, 402, 404, 488;
- AG/HUM/EDES/ENGR/SCM/UNIV 350;
- EE 361, 434;
- IME 142, 313, 335, 336, 351, 356, 401, 407, 408, 409, 411, 416, 417, 418, 427, 428, 431, 435, 437, 441, 442, 455, 457, 470, 471, 541, 542, 543, 544, 546, 556, 577;
- IME/AERO 510, 511;
- IME/MATE 458/488
- IT 341, 406, 428;
- ME 302, 305, 328, 341;
- MATE 210, 215, 410;
- MATH 344, 350;
- PSY 350

¹ Required in Support; also satisfies GE

² IME 400 and IME 500 require a course substitution form and no more than 4 total units are allowed.

³ The courses selected to satisfy this requirement may not be used to satisfy other major, support, or general education requirements (no double counting of coursework).

⁴ 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.

⁵ At least 6 units must be upper level (300-level or above) engineering courses (AERO, BMED, CE, EE, IME, MATE, ME)

⁶ Students who choose IME 157 from above take 9 units of electives while students who choose IME 156 take 11 units.