2013-2015

updated 10.30.13

Units Required 194

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 (87)	Units
EE 111 Intro to Electrical Engineering	1
EE 151 Intro to Electrical Engineering Lab	1
EE 112 Electric Circuit Analysis I	2
EE 129, 169 Digital Design, Lab (3)(1) <i>or</i>	3,1 <i>or</i>
CPE/EE 133 Digital Design (4)	4
EE 211 Electric Circuit Analysis II	3
EE 241 Electric Circuit Analysis Lab II	1
EE 212 Electric Circuit Analysis III	3
EE 242 Electric Circuit Analysis Lab III	1
EE 228 Continuous-Time Signals and Systems	4
EE 229, 269 Comp Design & Assem Prog (3)(1) or	3,1 <i>or</i>
CPE/EE 233 Comp Design & Assem Prog	4
EE 255 Energy Conv Electromag	3
EE 295 Energy Conv Electromag Lab	1 3
EE 302 Classical Control Syst EE 342 Classical Control Syst Lab	1
EE 306 Semiconduc Dev Elect	3
EE 346 Semiconduc Dev Elect Lab	1
EE 307 Digital Elec & Integ Circ	3
EE 347 Digital Elec & Integ Circ Lab	1
EE 308 Analog Elec & Integ Circ	3
EE 348 Analog Elec & Integ Circ Lab	1
EE 314 Intro to Communications Syst	3
EE 328 Discrete Time Signals & Syst	3
EE 368 Signals & Systems Lab	1
EE 329 Prog Logic & Micropro-Based Systems or	4
EE 336 Microprocessor System Design	
EE 335 Electromag Fields & Trans	4
EE 375 Electromag Fields & Trans Lab	1
EE 402 Electromag Waves	4
EE 409 Electronic Design	3
EE 449 Electronic Design Lab	1
EE 460 Senior Project Prep	2
EE 461 Senior Project I or	3 <i>or</i>
EE 463 Senior Project Design Lab I EE 462 Senior Project II <i>or</i>	3 2 <i>or</i>
	2 or 2
EE 464 Senior Project Design Lab II Technical Electives ¹	12
A minimum of 2 EE senior design laboratories and 2 EE	12
senior design lectures (See list on reverse.)	
series design rectances (see that on reverse.)	

SUPPORT COURSES (67)

BIO 213 and	2
ENGR/BRAE 213 (B2) ⁶	2
CHEM 124 General Chem for the Engineering I (B3/B4) ⁶	4
CSC 101 Fundamentals of Computer Science I	4
ENGL 149 Technical Writing for Engineers (A3) ⁶	4
IME 156 <i>or</i> IME 157	2
MATH 141 Calculus I (B1) ⁶	4

MATH 142 Calculus II (B1) ⁶	4
MATH 143 Calculus III (Add'l Area B) ⁶	4
MATH 241 Calculus IV	4
MATH 244 Linear Analysis I	4
PHYS 141 General Physics IA (Add'l Area B) ⁶	4
PHYS 132 General Physics II	4
PHYS 133 General Physics III	4
PHYS 211 Modern Physics I	4
STAT 350 Prob & Random Processes for Engrs (B6) ⁶	4
Approved engineering support electives ^{1,7,8} Select at least 3 courses from the following:	9
BIO 111; BMED 212, 310, 450, 460; CHEM 125, 212, 216, 313; CSC 141, 341, 342; CSC/CPE 102, 103, 315; IME 142, 143, 301, 314, 405, 407; MATE 210, 215, 232, 340, 430, 435; MATH 206, 304, 306, 406, 408, 409, 412, 413, 414, 418, 451, 452, 453; ME 211, 212, 302, 341, 343; PHYS 212, 310, 313, 315, 317, 322, 323, 340, 341, 342, 403, 405, 406, 408, 409, 412, 417, 423, 424, 452; STAT 426, 427	

GENERAL EDUCATION	(GE)	40
72 units required, 32 of which	h are in Major/Support	
Refer to <u>current schedule</u> or <u>http://www</u> You will <u>not</u> receive credit for courses r	not on the approved lists.	
Minimum of 8 units require	ed at the 300 level.	
Area A Communication		8
A1 Expository Writing	4	
A2 Oral Communication	4	
A3 Reasoning, Argu & W	Vriting (4 units in Support) ⁶	
Area B Science and Mather	natics (no add'l units req'd)	
28 units are listed in Supp	ort	
28 units are listed in Supp Area C Arts and Humanitie	·	16
Area C Arts and Humanitie	·	16
Area C Arts and Humanitie C1 Literature	es	16
Area C Arts and Humanitie C1 Literature C2 Philosophy	es4	16
Area C Arts and Humanitie C1 Literature C2 Philosophy C3 Fine/Performing Arts	es44	16
Area C Arts and Humanitie C1 Literature C2 Philosophy C3 Fine/Performing Arts	es 4 4 4 4 4 4	16
Area C Arts and Humanitie C1 Literature	es 4 4 4 4 4 4	
Area C Arts and Humanitie C1 Literature	2S 4 4 4 4 4 ve. 4	
Area C Arts and Humanitic C1 Literature	28 4 4 4 	

See reverse for footnotes.

OTHER DEGREE REQUIREMENTS:

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

FREE ELECTIVES

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 ELECTIVES¹

Select from the following:

EE lecture/laboratory electives

EE 410, 411,413, 417, 420, 424, 433, 434, 495³;

EE/CPE 427, 428, 439, 521, 522, 523;

EE 431/ CPE 441

EE Lecture Electives

EE 400⁴, 403, 405, 406, 407, 412, 415, 416, 418, 419, 421, 425, 440,

470, 502, 509, 511, 513, 514, 515, 518, 519, 520, 524, 526, 527, 528,

529, 530, 533, 570;

EE/CPE 432, 438

EE Laboratory Electives

EE 400⁵, 422, 443, 444, 445, 452, 455, 456, 458, 459, 471, 472, 480,

541, 544;

Non-EE Electives

BMED 410, 420, 425, 430, 440, 445;

BUS 311:

CHEM 313;

CPE 482;

CSC 341, 342;

CSC/CPE 315, 416, 453, 454, 458, 464, 471;

ECON 330, 337, 403, 413;

ENVE 331;

 $IME\ 301,\ 303,\ 319,\ 322,\ 326,\ 401,\ 405,\ 407,\ 427,\ 435,\ 457,\ 458;$

MATE 340, 430, 435;

MATH 304, 306, 406, 408, 409, 412, 413, 414, 418, 451, 452, 453;

ME 302, 318, 326, 343, 405, 415, 423, 450, 488;

MU 311, 312, 411;

PHYS 302, 303, 310, 313, 317, 322, 340, 341, 342, 403, 405, 406, 408,

409, 412, 417, 423, 424, 452;

STAT 426, 427

¹ Consultation with advisor is recommended prior to selecting technical electives or approved electives; bear in mind your selections may impact pursuit of post-baccalaureate studies and/or goals.

² A minimum of 2 EE senior design laboratories and 2 EE senior design lectures

³ Taken Fall 2009 or later; max 4 units.

⁴ Four units max count toward technical electives. Course substitution form required.

 $^{^{5}}$ One unit max, with approval of department chair, as lab elective. Course substitution form required.

⁶ Required in Support; also satisfies GE

 $^{^{7}}$ No course may be used to simultaneously satisfy both engineering support and technical elective requirements.

⁸ The number of units given for transfer credit will not exceed the number of units of the Cal Poly course.