

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

Updated 5/15/20

		YEAR 1			YEAR 2							
		Fall	Winter	Spring	Fall	Winter	Spring					
<p>Introduction to Computing CPE/CSC 123 (4) (or Technical Elective) **</p> <p>** CPE Transfer Students with articulated community college coursework equivalent to CPE 203 or additional STEM transfer college coursework, will have credit applied to the CPE 123 requirement. CPE Transfer students that do not have articulated community college coursework equivalent to CPE 203 or additional STEM transfer college coursework, will take an additional 4 units of Technical Electives in a future quarter.</p> <p>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:</p> <p><input type="checkbox"/> MATH 141 <input type="checkbox"/> GE AREA A1</p> <p><input type="checkbox"/> MATH 142 <input type="checkbox"/> GE AREA A2</p> <p><input type="checkbox"/> MATH 143 <input type="checkbox"/> GE AREA C1</p> <p><input type="checkbox"/> MATH 241 <input type="checkbox"/> GE AREA C2</p> <p><input type="checkbox"/> MATH 244 <input type="checkbox"/> GE AREA LOWER-DIVISION C ELECTIVE</p> <p><input type="checkbox"/> PHYS 141 <input type="checkbox"/> GE AREA D1</p> <p><input type="checkbox"/> PHYS 132 <input type="checkbox"/> GE AREA D2</p> <p><input type="checkbox"/> PHYS 133 <input type="checkbox"/> GE AREA D ELECTIVE</p> <p><input type="checkbox"/> CHEM 124 <input type="checkbox"/> GE AREA E</p> <p><input type="checkbox"/> EE 112 (113)</p> <p><input type="checkbox"/> EE 211</p> <p><input type="checkbox"/> EE 241</p> <p><input type="checkbox"/> CPE 101</p> <p><input type="checkbox"/> ENGL 149 (A3)</p> <p><input type="checkbox"/> BIO/BMED 213 (B2)</p> <p><input type="checkbox"/> Approved Elective (CSC, EE, Math or Science)***</p>	<p>Computer Engineering Orientation CPE 100 (1)</p> <p>Project-Based Object-Oriented Programming & Design CPE 203 (4) <small>CSC</small></p> <p>Digital Design CPE 133 (4)³ <small>(CPE 100; 101)</small> <small>EE</small></p> <p>Electric Circuit Analysis & Lab III EE 212 (3) AND EE 242 (1) <small>(MATH 244, EE 211)</small></p> <p>Electronics Manuf. & Circuit Analysis Lab EE 143 (1)[^] <small>(Math 142; Concurrent EE 113; Recom: EE 111, EE 151; PHYS 133)</small></p>	<p>Upper Division C (4) <small>(combine with USCP requirement if still needed)</small></p> <p>Choose One: Signals and Systems CPE 327 (3) & CPE 367 (1) OR EE 228 (4) *</p> <p>Computer Design and Assembly Language Programming CPE 233 (4) <small>(CPE 133)</small> <small>EE</small></p> <p>Semiconductor Device Electronics & Lab EE 306 (3) AND EE 346 (1) <small>(CHEM 124; EE 212 & 242; IME 156, 157, or 458; PHYS 211. Rec: ENGL 134)</small></p>	<p>Systems Programming CPE 357 (4) <small>(CPE 202 & 203 w/ a C- or better; CPE 233 or CSC 225) <small>CSC</small></small></p> <p>Digital Electronics & Integrated Circuits EE 307 (3) AND EE 347 (1) <small>(CPE 133, EE 306 & 346. Coreq: CPE 233. Concur: EE 347)</small></p> <p>Probability and Random Processes for Engineers STAT 350 (4)² <small>(MATH 241, EE 228)</small> <small>[B6]</small></p>	<p>Introduction to Computer Networks CPE 464 (4) <small>(CPE 357. Recommended: STAT 312, 321, or 350)</small></p> <p>Capstone I □ CPE 350 (4)⁵ <small>(CPE 316† or 329† or 336†)</small></p> <p>Microcontrollers & Embedded Applications CPE 316 (4)⁹ □ <small>(CPE 357; Coreq: EE 211)</small> <small>EE</small></p> <p>Approved Technical Elective (4)^{4,6} *** <small>CPE</small></p>	<p>Choose One Series: Senior Project I & II CPE 461 (3) <small>(CPE 350)</small> CPE 462 (2) <small>(CPE 450)</small></p> <p>OR</p> <p>Research Senior Project I & II CSC 497 (2) <small>(CSC 307 or 309)</small> CSC 498 (2) <small>(CSC 497)</small></p> <p>Capstone II □ CPE 450 (3)⁵ <small>(CPE 350)</small></p> <p>Discrete Structures CSC 348 (4) <small>(w/ min C- in CPE 102 & 103; or CPE 202 & 203; or Instr. consent)</small></p> <p>Approved Technical Elective (4)^{4,6} *** <small>CPE</small></p>	<p>Introduction to Operating Systems CPE 453 (4) <small>(CPE 357; CPE 225, 229, or 233)</small> <small>CSC</small></p> <p>Computer Hardware Architecture & Design CPE 333 (4)⁸ <small>(CPE 101, 233)</small></p> <p>Approved Technical Elective (4)^{4,6} *** <small>CPE</small></p>						
							<p>Graduation Writing Requirement GWR* <small>(Students can attempt to fulfill the requirement after 90 earned units; students should complete the requirement before senior year)</small></p>					
							14	16	12	16	13-14	14

Notes:

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

* Refer to current catalog for prerequisites.

**Refer to online catalog for GE course selection, United States Cultural Pluralism (USCP) and Graduation Writing Requirement (GWR).

†* Refer to current catalog for course selection.

USCP requirement can be satisfied by some (but not all) courses within GE categories: C1, Upper-Division C, D1, D2, D Elective, or E

SOME CPE COURSES WILL NEED TO BE ENROLLED IN BY PERMISSION NUMBER ONLY. MAKE SURE TO READ ALL THE SECTION NOTES IN SCHEDULE BUILDER EACH QUARTER TO IDENTIFY THESE COURSES.

† Course can be taken previously or concurrently.

^ Or can take IME 156

³ CPE 133 and EE 112 are often offered as 100% online courses during the summer.

⁴ See catalog for course options. 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. No course credits may be used simultaneously to satisfy both engineering support and technical elective requirements.

⁵ ENGR 459, 460, 461, & CPE 400, or ENGR 463, 464, 465, & CPE 400 may substitute for CPE 350 and CPE 450

⁶ The following courses may not be used to satisfy this requirement: COOP units; BUS 499; CSC 302, CSC 303, CSC 310, CSC 400, CSC 500; EE 321, EE 322, EE 361, EE 400, EE 460, EE 500, EE 563.

⁸ Take CPE 333 (4) or CPE 315 (4).

⁹ Take CPE 316 (4); or CPE/EE 329 (4); or EE 336 (4)

Legend:

Course Title	
Course # (Units)	Major
(Prerequisite)	Support
[GE Area]	General Ed.
Home Dept	