CAL POLY POMONA

Major Required Core	78 units	ECE4705L - Communication Systems Laboratory (1) ECE4708 - Digital Signal Processing (3)
Biol110 - Life Science (2) (B2) CHM1210 - General Chemistry I (3) (B1) CHM1210L - General Chemistry Laboratory I (1) (B3) ECE1101 - Electrical Circuit Analysis I (3) ECE1101 - Electrical Circuit Analysis I Laboratory (1) ECE1310 - C For Engineers (3) ECE2101 - Electrical Circuit Analysis II Laboratory (1) ECE2200 - Introduction to Microelectronics Circuits (3) ECE2200 - Introduction to Microelectronics Circuits (3) ECE2300 - Digital Logic Design (3) ECE2300 - Digital Logic Design (3) ECE3300 - Digital Logic Design (3) ECE3300 - Digital Circuit Design Using Verilog (3) ECE3300 - Digital Circuit Design Using Verilog (3) ECE3300 - Digital Circuit Design Using Verilog (3) ECE3301 - Introduction to Microcontrollers (3) ECE3300 - Digital Circuit Design Using Verilog (3) ECE3301 - Introduction to Microcontrollers (3) ECE3300 - Digital Circuit Design Using Verilog (3) ECE3300 - Digital Circuit Design Principles and Applications (3) EGF4480 - Project Design Principles and Applications (1) (B5) EGF4480 - Project Design Principles and Applications (1) (B5) EGF4480 - Project Design Principles and Applications (1) (B5) MAT1140 - Calculus II (4) (B4) MAT1140 - Calculus II (4) (B4) MAT140 - Calculus II (4) (B4) MAT2240 - Elementary Linear Algebra and Differential Equations (3) PHY1510 - Introduction to Newtonian Mechanics (3) (B1) PHY1510 - Introduction to Newtonian Mechanics (3) (B1) PHY1510 - Introduction to Newtonian Mechanics (3) (B1) PHY1510 - Introduction to Newtonian Mechanics (3) (B1) PHY1		ECE4708 - Digital Signal Processing (3) ECE4709 - Digital Communication Systems (3) ECE4719 - Advanced Control Systems (3) ECE4821 - Power Transmission Lines (3) ECE4821 - Power Transmission Lines Laboratory (1) ECE4822 - Power System Analysis (3) ECE4822 - Power System Analysis (3) ECE4868 - Power Systems Electronics (3) ECE4868 - Power Systems Electronics (3) ECE4868 - Power Electronics (3) ECE4868 - Power Electronics (3) ECE4869 - Power Electronics (3) ECE4869 - Power Electronics (3) ECE4869 - Power Electronics (3) ECE4889 - Power Electronics (3) ECE48890 - Illumination Engineering (3) ECE4890L - Introduction to Illumination Engineering Laboratory (1)
PHY1520L - Introductory Laboratory on Electromagnetism and Circuits (1)		
Major Electives	13 units	
Select 13 units from the following list of Technical Elective Courses:		
ECE3101L - Signals and Systems Laboratory (1) ECE3200 - Microelectronic Devices and Circuits (3) ECE3200L - Analog Microelectronics Laboratory (1)		

Name: Plan:

Computer Engineering, B.S.

SubPlan/Option:

Min. Units Required: 124 units

2018-2019 University Catalog Degree Curriculum Sheet

General	Education	nequirements	
		-	

Concerned Education Demulsion anto

Students should consult the Academic Programs website

https://www.cpp.edu/~academic-programs/general-education-course-listings.shtml for current information regarding this requirement. Unless specific courses are required, please refer to the list of approved courses under General Education Requirements, Areas A through E.

Area A. English Language Communication and Critical Thinking (9 units)

- 1. Oral Communication
- 2. Written Communication
- 3. Critical Thinking (Satisfied by completion of undergraduate Engineering degree)

Area B. Scientific Inquiry and Quantitative Reasoning (12 units)

- 1. Physical Sciences
- 2. Life Sciences
- 3. Laboratory Activity
- 4. Mathematics/Quantitative Reasoning
- 5. Science and Technology Synthesis

Area C. Arts and Humanities (12 units)

- 1. Visual and Performing Arts
- 2a. Philosophy and Civilization
- 2b. Literature and Language Other than English
- 3. Arts and Humanities Synthesis

Area D. Social Sciences (12 units)

- 1. U.S. History and American Ideals
- 2. U.S. Constitution and California Government
- 3. Social Sciences: Principles, Methodologies, Value Systems, and Ethics
- 4. Social Science Synthesis
- Area E. Lifelong Learning and Self-Development (3 units)
- Interdisciplinary General Education

21 Units

48 Units

An alternate pattern for partial fulfillment of GE Areas A, C, and D available for students is the Interdisciplinary General Education (IGE) program. Students should see an advisor for specific GE coursework required by their major. Please refer to the University Catalog General Education Program section for additional information.

How IGE fulfills General Education Requirements:				
Year	Completion of IGE Courses	Satisfies GE Requirements		
Freshman	IGE 1100, IGE 1200	A2 and C2b		
Sophomore	IGE 2100, IGE 2200	C1 and C2a		
Junior	IGE 2300, IGE 2400	D1 and D3		
Senior	IGE 3100	C3 or D4		
American Institutions 6 Units				

Courses that satisfy this requirement may also satisfy GE Area D1 and D2.

American Cultural Perspectives Requirement ^{3 Units}

Refer to the University Catalog General Education Program section for a list of courses that satisfy this requirement. Course may also satisfy major, minor, GE, or unrestricted elective requirements.

Graduation Writing Test

All persons who receive undergraduate degrees from Cal Poly Pomona must pass the Graduation Writing Test (GWT). The test must be taken by the semester following completion of 60 units for undergraduates.

ECE4221 - RF Design (3) ECE4220 - Introduction to Photonics (3) ECE4200 - Introduction to Photonics (3) ECE4303 - TCP / IP Internetworking Laboratory (1) ECE4304 - Discrete System Design Using VHDL (3) ECE4305 - Digital Design Using Verilog HDL (3) ECE4305 - Digital Design Using Verilog HDL (3) ECE4305 - Digital Design Using Verilog HDL Laboratory (1) ECE4305 - Digital Design Using Verilog HDL (3) ECE4317 - Intelligence Systems for Engineering (3) ECE4318 - Software Engineering (3) ECE4319 - Application Development Using JAVA (3) ECE4704 - Robotics (3)

ECE3201 - Instrumentation Systems (3) ECE3201L - Instrumentation Systems Laboratory (1)

ECE3250 - Electromagnetic Fields (3)

ECE3709 - Control Systems Engineering (3)

ECE4201 - Advanced Analog Circuit Design (3)

ECE4250 - Fields and Waves in RF Electronics (3)

ECE3320 - Microprocessor-based system design (3) ECE3320L - Microprocessor-based System Design Laboratory (1)

ECE37092 - Control Systems Engineering Laboratory (1) ECE3810 - Introduction to Power Engineering (3) ECE3810L - Power Engineering Laboratory (1) ECE4200 - CMOS Analog Circuits (3) ECE4200L - CMOS Analog Circuits Laboratory (1)

ECE4201L - Advanced Analog Circuit Design (J) ECE4201L - Advanced Analog Circuit Design Laboratory (1) ECE4203 - VLSI (Very Large Scale Integrated) Circuit Design (3) ECE4203L - VLSI (Very Large Scale Integrated) Circuit Design Laboratory (1)