GENERAL CURRICULUM IN ELECTRICAL ENGINEERING

	Technical Electives					
Se	elect from the follow		11			
	EE Senior Design	Lecture/Laboratory Electives				
	EE 410	Power Electronics I				
	EE 411	Power Electronics II				
	EE 413	Advanced Electronic Design				
	EE/CPE 414	Robotic Systems Integration				
	EE 417	Alternating Current Machines				
	EE 420	Sustainable Electric Energy Conversion				
	EE 424	Introduction to Remote Sensing				
	EE/CPE 428	Computer Vision				
	EE 431/CPE 441	Computer-Aided Design of VLSI Devices				
	EE 433	Introduction to Magnetic Design				
	EE 434	Automotive Engineering for a Sustainable Future				
	EE/CPE 439	Introduction to Real-Time Operating Systems				
	EE/CPE 442	Real Time Embedded Systems				
	EE/CPE 446	Design of Fault-Tolerant Digital Systems				
	EE/CPE 447	Stringed Musical Instrument Acoustics, Mechanics, and Transducer Design				
	EE 495	Cooperative Education Experience ⁴				
	EE 502	Microwave Component and System Engineering				
	EE 504	Software Defined Radio				
	EE 516	Pattern Recognition				
	EE 518	Power System Protection				
	EE/CPE 521	Computer Systems				
	EE/CPE 522	Advanced Real-Time Operating Systems Design				
	EE/CPE 523	Digital Systems Design				
	EE 529	Microwave Device Electronics				
	EE 531/CPE 541	Advanced VLSI Design				
	EE 534	Advanced Photonic Systems				
	EE/CPE 542	Advanced Real Time Embedded Systems				
	EE Senior Design	Lecture Electives				
	EE 400	Special Problems ⁵				
	EE 403	Introduction to Photonics and Fiber Optics				
	EE 405	High Frequency Amplifier Design				
	EE 406	Power Systems Analysis I				
	EE 407	Power Systems Analysis II				
	EE 412	Advanced Analog Circuits				
	EE 415	Communication Systems Design				
	EE 416	Digital Communication Systems				

EE 418	Photonic Engineering
EE 419	Digital Signal Processing
EE 423/ BMED 434/ MATE 430	Micro/Nano Fabrication
EE 425	Analog Filter Design
EE/CPE 432	Digital Control Systems
EE 440	Wireless Communications
EE 470	Selected Advanced Topics
EE 502	Microwave Component and System Engineering
EE 509	Computational Intelligence
EE 511	Electric Machines Theory
EE 513	Control Systems Theory
EE 514	Advanced Topics in Automatic Control
EE 515	Discrete Time Filters
EE 518	Power System Protection
EE 519	Advanced Analysis of Power Systems
EE 520	Advanced Solar-Photovoltaic Systems Design
EE 524	Solid State Electronics
EE 526	Advanced Digital Communications
EE 527	Advanced Topics in Power Electronics
EE 528	Digital Image Processing
EE 530	Fourier Optics
EE 533	Antennas
EE 570	Selected Advanced Topics
EE Senior Design I	Laboratory Electives
EE 400	Special Problems ⁵
EE/PHYS 422	Polymer Electronics Laboratory
EE 435	Industrial Power Control and Automation
EE 443	Introduction to Photonics and Fiber Optics Laboratory
EE 444	Power Systems Laboratory
EE 445	High Frequency Amplifier Design Laboratory
EE 452	Advanced Analog Circuits Laboratory
EE 455	Analog Filter Design Laboratory
EE 456	Digital Communication Systems Laboratory
EE 458	Photonic Engineering Laboratory
EE 459	Digital Signal Processing Laboratory
EE 471	Selected Advanced Laboratory
EE/CPE 472	Digital Control Systems Laboratory
EE 473/ BMED 435/MATE 435	Microfabrication Laboratory
EE 475	Communication Networks and Systems Laboratory
EE 480	Wireless Communications Laboratory
EE/CPE 532	VLSI Circuit Testing

EE 544 Advanced Microwave Laboratory EE 5644 Solid-state Electronics and VLSI Laboratory Non-EE Bectives BMED 420 Principles of Biomaterials Design BMED 425 Biomedical Engineering Transport BMED 436 Biomedical Engineering Transport BMED 437 Biomedical Engineering Transport BMED 440 Biodectronics and Instrumentation BMED 440 Biodectronics and Instrumentation BMED 441 Biodectronics and Instrumentation BMED 443 Biopotential Instrumentation BMED 443 Biopotential Instrumentation BMED 444 Biopotential Instrumentation BMED 445 Biopotential Instrumentation PHYS 405 Quantum Mechanics I PHYS 406 Quantum Mechanics I PHYS 406 Quantum Mechanics I PHYS 406 Quantum Mechanics I PHYS 407 Biopotential Endet of the Valve Instrumentation Instrument					
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and Production Engineers MU 312 Advanced Recording, Synthesis, and MATE 210 Materials Engineering					
MU 312 Advanced Recording, Synthesis, and MATE 210 Materials Engineering	MU311		IME 315		
	MU 312		MATE 210		

MATE 215	Materials Laboratory I			
MATE 232	Materials, Ethics, and Society			
MATE 340	Electronic Materials Systems			
MATE 430/ BMED 434/ EE 423	Micro/Nano Fabrication			
MATE/BMED 435/EE 473	Microfabrication Laboratory			
MATH 206	Linear Algebra I			
MATH 248	Methods of Proof in Mathematics			
MATH 304	Vector Analysis			
MATH 306	Linear Algebra II			
MATH 406	Linear Algebra III			
MATH 412	Introduction to Analysis I			
MATH 410	Complex Analysis I			
MATH 411	Complex Analysis II			
MATH 451	Numerical Analysis I			
MATH 452	Numerical Analysis II			
MATH 453	Numerical Optimization			
ME 211	Engineering Statics			
ME 212	Engineering Dynamics			
ME 228	Engineering Design Communication			
ME 251	Introduction to Detailed Design with Solid Modeling			
ME 302	Thermodynamics I			
ME 341	Fluid Mechanics I			
PHYS 212	Modern Physics II			
PHYS 310	Physics of Energy			
PHYS 313	Introduction to Atmospheric Physics			
PHYS 315	Lasers			
PHYS 318	Special Theory of Relativity			
PHYS 323	Optics			
PHYS 403	Particle and Nuclear Physics			
PHYS 405	Quantum Mechanics I			
PHYS 406	Quantum Mechanics II			
PHYS 408	Electromagnetic Fields and Waves I			
PHYS 409	Electromagnetic Fields and Waves II			
PHYS 423	Advanced Optics			
PHYS 425	Solid State Physics			
PHYS 426	Solid State Physics Laboratory			
PHYS 428	Nonlinear Dynamical Systems			
Total units 20				

Consultation with an 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.

A course cannot be double-counted as a Technical Elective and an Approved Engineering Elective.

A minimum of two EE Senior Design Lecture Electives and two EE Senior Design Laboratory Electives.

Four units maximum.

- Four units maximum may count toward Technical Electives; one unit maximum, with approval of department chair, may count towards Senior Design Laboratory Elective.
- The number of units given for transfer credit will not exceed the number of units of the Cal Poly course.