Electrical Engineering (Electronics)

The following describes the quarter-by-quarter curriculum for students entering in the Fall of 2006.

Fresh 1 Fall	**Qtr 1**	**MATH 121** Calculus I 4 cr		**CHEM 101** Chemistry I 3.5 cr	**ENGR 101** Freshman Design I 2 cr	**CS 121** Computation Lab I 1 cr	**ENGL 101, 102, 103; UNIV 101** Liberal Studies and Seminars 11 cr
Fresh 2 Winter	**Qtr 2**	**MATH 122** Calculus II 4 cr	**PHYS 101** Physics I 4 cr	**CHEM 102** Chemistry II 4.5 cr	**ENGR 102** Freshman Design II 2 cr	**CS 122** Computation Lab II 1 cr	
Fresh 3 Spring	**Qtr 3**	**MATH 200** Multivariable Calculus 4 cr	**PHYS 102** Physics II 4 cr	**BIO 141** Essential Biology 4.5 cr	**ENGR 103** Freshman Design III 2 cr	**CS 123** Computation Lab III 1 cr	
Soph 1 Fall/Sp	**Qtr 4**	**ENGR 231** Linear Eng Systems 3 cr	**PHYS 201** Physics III 4 cr	**ENGR 220** Materials 4 cr	**ECE 200** Logic 3 cr	**ENGR 201, 202** Evaluation & Presentation of Experimental Data 6 cr	
Soph 2 W/Su	**Qtr 5**	**ENGR 232** Dynamic Eng Systems 3 cr	Choice* 3 cr	**ECE 203** Programming for Eng 3 cr	**ECE 201** Circuits 3 cr		
Pre-J 1 Fall/Sp	**Qtr 6**	Free Elective 3 cr	**ECES 302** Transform Methods 4 cr	**ECEE 302** Electronic Devices 4 cr	**ECEL 301** ECE Lab. I 2 cr	**HIST 285** Tech in Hist Perspective 3 cr	
Pre-J 2 W/Su	**Qtr 7**	**MATH 291** Complex & Vector Analy 4 cr	**ECEE 352** Analog Electronics 4 cr	Core Elective 4 cr	**ECEL 302** ECE Lab. II 2 cr	**PHIL 315** Engineering Ethics 3 cr	
Junior 1 Fall/Sp	**Qtr 8**	**ENGR 361** Stat of Engr Systems 3 cr	**ECEE 304** EM Fields and Waves 4 cr	Core Elective 4 cr	**ECEL 303** ECE Lab. III 2 cr	Liberal Elective 3 cr	
Junior 2 W/Su	**Qtr 9**	Free Elective 3 cr	**ECEE 354** Wireless & Optical Elect 4 cr	Core Elective 4 cr	**ECEL 304** ECE Lab. IV 2 cr	Liberal Elective 3 cr	

Senior 1 Fall	**Qtr 10**	**ECE 491** Senior Design I 2 cr	Liberal Elective 3 cr	ECE Tech. Elective 3 cr	Free Elective 3 cr	**ECEE 421** Adv Electronics I 4 cr ***and/or*** **ECEE 471** HF Passive Circuits 4 cr
Senior 2 Winter	**Qtr 11**	**ECE 492** Senior Design II 2 cr	Liberal Elective 3 cr	ECE Tech. Elective 3 cr	Free Elective 0-3 cr**	**ECEE 422** Adv Electronic Circuits I 3 cr ***and/or*** **ECEE 472** RF Electronics 4 cr
Senior 3 Spring	**Qtr 12**	**ECE 493** Senior Design III 4 cr	Liberal Elective 3 cr	ECE Tech. Elective 3 cr		**ECEE 434** Digital Electronics 4 cr ***and/or*** **ECEE 473** Antennas and Radiating Systems 4 cr

Notes:

1. Core Electives are 300-level ECE courses from other EE tracks or computer engineering.
2. ECE Tech Electives are 300- or 400-level ECE courses from any EE track or computer engineering.
3. One liberal elective must be ECON 201 (4 cr). Two liberal studies courses must be in the same area (HIST, PSY, etc.). Economics courses cannot make a sequence.

* Courses here may include PHYS 202 Modern Physics, ENGR 210 Thermodynamics, MATH 221 Discrete Math, CHEM 103 Chemistry III or a BIO/BMES course with Dept. approval

** The number of free elective credits will depend on the individual plan of study. Students who have taken 4 credit EE sequence or technical elective courses will need fewer free elective credits. Those who took 3 credit courses will need more. The total of all credits taken must add to at least 192 for the EE degree.