Electrical Engineering Track (Entry in Fall 2007)

The following describes the quarter-by-quarter curriculum for students entering in the fall of 2009.

Fresh 1 Fall	**Qtr 1**	**MATH 121** Calculus I 4 cr	**ENGR 100** CAD 1 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** 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/S	**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	General Education Elective 3 cr	
Pre-J 2 W/Su	**Qtr 7**	**MATH 291** Complex & Vector Analy 4 cr	**ECES 304** Dynamic Systems 4 cr	Core Elective 4 cr	**ECEL 302** ECE Lab. II 2 cr	General Education Elective **PHIL 315** Engineering Ethics 3 cr	
Junior 1 Fall/Sp	**Qtr 8**	**ENGR 361** Stat of Engr Systems 3 cr	**ECES 356** Theory of Control 4 cr	Core Elective 4 cr	**ECEL 303** ECE Lab. III 2 cr	General Education Elective 3 cr	
Junior 2 W/Su	**Qtr 9**	Free Elective 3 cr	**ECEP 352** Electric Motor Control 4 cr	Core Elective 4 cr	**ECEL 304** ECE Lab. IV 2 cr	General Education Elective 3 cr	

Senior 1 Fall	**Qtr 10**	**ECE 491** Senior Design I 2 cr	General Education Elective 3 cr	ECE Tech. Elective 3 cr	Free Elective 3 cr	**ECEP 411** Power Systems I 3 cr **and/or** **ECES 444** Sys & Controls I 4 cr
Senior 2 Winter	**Qtr 11**	**ECE 492** Senior Design II 2 cr	General Education Elective 3 cr	ECE Tech. Elective 3 cr	Free Elective 0-3 cr**	**ECEP 412** Power Systems II 4 cr **and/or** **ECES 445** Sys & Controls II 4 cr
Senior 3 Spring	**Qtr 12**	**ECE 493** Senior Design III 4 cr	General Education Elective 3 cr	ECE Tech. Elective 3 cr		**ECEP 413** Power Systems III 3 cr **and/or** **ECES 446** Sys & Controls III 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. General Education Electives are seven courses taken from the COE approved list. One of these courses must be PHIL 315. The COE approved list is available at this link: http://www.drexel.edu/catalog/degree/engineering-gen-ed.htm

* 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.