

BS EE Degree Requirements

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	ENGR 121 Computation Lab I 2 cr ENGR 122 Computation Lab II 1 cr	ENGL 101 3 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		UNIV 101 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		ENGL 102 3 cr UNIV 101 .5 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 Evaluation & Presentation of Experimental Data 3 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	ENGR 202 Evaluation & Presentation of Experimental Data 3 cr	
Pre-J 1 Fall/S	Qtr 6	ECES 301 Transform Methods 4 cr	ECE Elective 3-4 cr	ECE 361 Probability for Engineers 3 cr	ECEL 301 ECE Lab I 2cr	General Education Elective 3 cr	
Pre-J 2 W/Su	Qtr 7	ECES 303 (ECE Elective) Transform Methods II 3 cr	ECE Elective 3-4 cr	ECE Elective 3-4 cr	ECEL 302 ECE Lab II 2 cr	MATH Elective 3 cr	General Education Elective 3 cr
Junior 1 Fall/Sp	Qtr 8	Free Elective 3 cr	ECE Elective 3-4 cr	ECE Elective 3-4 cr	ECEL 303 ECE Lab III 2 cr	General Education Elective PHIL 315 3 cr	ECE 391 Intro to Engineering Design Methods 1 cr
Junior 2 W/Su	Qtr 9	Free Elective 3 cr	ECE Elective 3-4 cr	ECE Elective 3-4 cr	ECEL 304 ECE Lab IV 2 cr	General Education Elective 3 cr	General Education Elective (Spring or Winter) 1 cr

Senior 1 Fall	Qtr 10	ECE 491 Senior Design I 2 cr	ECE Elective 3-4 cr	ECE Elective (ECES, ECEE or ECEP 400 level) 3-4 cr	Free Elective 3 cr	General Education Elective 3 cr
Senior 2 Winter	Qtr 11	ECE 492 Senior Design II 2 cr	ECE Elective 3-4 cr	ECE Elective (ECES, ECEE or ECEP 400 level) 3-4 cr	Free Elective 3 cr	General Education Elective 3 cr
Senior 3 Spring	Qtr 12	ECE 493 Senior Design III 4 cr	ECE Elective 3-4 cr	ECE Elective (ECES, ECEE or ECEP 400 level) 3-4 cr	Free Elective 3 cr	General Education Elective 3 cr

Notes:

- 192 Credits are needed for graduation. In addition, an ECE student must have a 2.0 cumulative overall GPA and a 2.0 cumulative GPA in their ECE courses.
- General Education Electives are seven courses taken from the COE approved list. One of these courses must be PHIL 315.
- ECE Electives (ECEX Elective) are at least 45 credits of ECE courses. At least 9 credits must be in the major at the 400-level or higher. Up to 12 credits may be taken from other COE or BIOMED majors.
- * Choice courses may include PHYS 202 Fundamentals of Physics IV, ENGR 210 Thermodynamics, MATH 221 Discrete Math, CHEM 103 Chemistry III or a BIO/BMES course with department approval.
- Math Elective is a 3-4.5cr course from MATH at a 200-level or higher. MATH 291 (Complex & Vector Analysis) is encouraged for EE Majors, and MATH 221 (Discrete Math) is encouraged for CE Majors.
- The number of free elective credits will depend on the individual plan of study. Students who have taken 4 credit ECE 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.