EE - Digital Signal Processing Plan of Study

Fresh 1 Fall	Qtr 1	MATH 121 Calculus I 4 cr	ENGR 100 CAD 1cr	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 UNIV 101 1 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		ENGL 102 3 cr UNIV 101 .5 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 103 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/Sp	Qtr 6	ECES 301 Transform Methods 4 cr	ECE Elective Electronic Devices 3-4 cr	ECE 361 Probability for Engineers 3 cr	ECEL 301 ECE Lab. I 2 cr	General Education Elective 3 cr	
Pre-J 2 W/Su	Qtr 7	ECES 303 Transform Methods 3 cr	ECE Elective 3-4 cr	MATH 291 (Math Elective) Complex & Vector Analy 4 cr	ECEL 302 ECE Lab. II 2 cr	General Education Elective 3 cr	
Junior 1 Fall/Sp	Qtr 8	ECE Elective 3-4 cr	ECE Elective 3-4 cr	ECES 306 (ECE Elective) Analog and Digital Communications 4 cr	ECEL 303 ECE Lab. III 2 cr	General Ed. Elective PHIL 315 3 cr	ECE 391 Intro to Design 1 cr (Spring or Winter)
Junior 2 W/Su	Qtr 9	Free Elective 3 cr	ECES 352 (ECE Elective) Intro to DSP 4 cr	ECE Elective 3-4 cr	ECEL 304 ECE Lab. IV 2 cr	General Education Elective 3 cr	ECE 391 Intro to Design 1 cr (Winter or Spring)

Senior 1 Fall	**Qtr 10**	**ECE 491 Senior Design I 2 cr**	**General Education Elective 3 cr**	**ECE Elective 3 -4 cr**	**Free Elective 3 cr**	**ECES 434 (ECE Elective) Applied Digital Signal Processing (Pre-req: ECES 352) 4 cr**
Senior 2 Winter	**Qtr 11**	**ECE 492 Senior Design II 2 cr**	**General Education Elective 3 cr**	**ECE Elective 3-4 cr**	**Free Elective 3 cr**	**ECES 435 (ECE Elective) Recent Advances in DSP (Pre-req: ECES 352) 4 cr**
Senior 3 Spring	**Qtr 12**	**ECE 493 Senior Design III 4 cr**	**General Education Elective 3 cr**	**ECE Elective 3-4 cr**	**Free Elective 3 cr**	**ECES 436 (ECE Elective) Multi-Disciplinary DSP (Pre-req: ECES 352) 4 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.
- ECES 301 Transforms Methods I and ECES 303 Transform Methods II are required for all EE majors.
- ECE Electives (ECEX courses) are 13 courses or at least 42 credits of ECEX courses. At least 9 credits must be in the major at the 400-level or higher. Up to 12 credits of ECE Electives may be taken from other COE departments or BIOMED or Computer Science as long as the courses are at the 300-400 level. Note: ECEP 404 or ECEP 371 Intro to Nuclear Engineering does not count as an ECE Elective unless combined with PHYS 330.
- * 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 courses with ECE 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.