## Telecommunications/DSP Track (Entry in Fall 2006-07)

The following describes the quarter-by-quarter curriculum for students entering in fall of 2006-07.

Fresh 1 Fall	Otr 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
Fresh 2 Winter	Otr 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	11 cr
Soph 1 Fall/Sp	Otr 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	Otr 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	Otr 7	MATH 291 Complex & Vector Analy 4 cr	ECES 352 Intro Dig Sig Proc 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	ECES 306 Modulation & Coding 4 cr	ECEL 303 ECE Lab. III 2 cr	Liberal Elective 3 cr	
Junior 2 W/Su	Otr 9	Free Elective 3 cr	ECES 354 Wireless Communications 4 cr	Core Elective 4 cr	ECEL 304 ECE Lab. IV 2 cr	Liberal Elective 3 cr	
Senior 1 Fall	Otr 10	ECE 491 Senior Design I 2 cr	Liberal Elective 3 cr	ECE Tech. Elective 3 cr	Free Elective 3 cr	ECES 434  Deterministic Signal  Processing  4 cr  and/or  ECES 421  Communications I  3 cr	
Senior 2 Winter	Otr 11	ECE 492 Senior Design II 2 cr.	Liberal Elective 3 cr	ECE Tech. Elective 3 cr	Free Elective 0-3 cr**	ECES 435 Statistical Signal Processing 4 cr and/or ECES 422 Communications II 3 cr	
Senior 3 Spring	Otr 12	ECE 493 Senior Design III 4 cr.	Liberal Elective 3 cr	ECE Tech. Elective 3 cr		ECES 436 Speech and Image Signal Interp 4 cr and/or ECES 423 Communications III 3 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.

<sup>\*</sup> 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.