ELECTRICAL & COMPUTER ENGINEERING: 4 YR. SEQUENCE	
FALL CLASSES	SPRING CLASSES
FALL: First Semester (16 hours)	SPRING: Second Semester (17 hours)
 SYEN 1210 Introduction to Systems Engineering CHEM 1406 Engineering Chemistry Or CHEM 1402 General Chemistry I MATH 1451 Calculus I Core: Communications - Written Core U.S. Traditions 	 ECEG 1301 Introduction to Computer Systems MATH 1452 Calculus II PHYS 2321/2121 Physics for Scientists and Engineers I and Lab Core: Communications - Written Core: History of Civilization
FALL: Third Semester (17 hours)	SPRING: Fourth Semester (17 hours)
 SYEN 1302 C/C++ Programming for Engineers and Scientists Or CPSC 1375 Programming I MATH 2453 Calculus III PHYS 2322/2122 Physics for Scientists and Engineers II and Lab Core: Social Science Core: Fine Arts 	 ECEG 2110 Computational Engineering Laboratory ECEG 2315/2115 Circuits and Systems and Lab SYEN 3314 Probability Theory and Random Variables MATH 2310 Discrete Mathematics MATH 3322 Introduction to Differential Equations PHIL 2321 Professional Ethics (Core: Humanities)
FALL: Fifth Semester (17 hours)	SPRING: Sixth Semester (16 hours)
 MATH 3312 Linear Algebra ECEG 3330/3130 Digital Systems and Lab ECEG 3332 Communication Networks ECEG 3351 Network Analysis ECEG 3352/3152 Analog and Digital Electronics and Lab 	 SYEN 3301 Engineering Economy ECEG 3334/3134 Microprocessor Systems and Lab ECEG 3336 Computer Architecture Or CPSC 2482 Computer Organization ECEG 3350 Signals and Systems ECEG 3364 Introduction to Control Systems Engineering
FALL: Seventh Semester (15 hours)	SPRING: Eighth Semester (15 hours)
 ECEG 3354/3154 Digital & Analog Communication s and Lab ECEG 3356 Electromagnetic Fields and Waves ECEG 3358/3158 Fundamentals of Power Systems and Lab SYEN 4185 Systems Engineering Capstone Design I SYEN X3XX Major Elective 	 3312 Optimization Methods in Systems Engineering Or SYEN 3316 Discrete Event Systems Modeling and Simulation SYEN 4386 Systems Engineering Capstone Design II SYEN X3XX Major Elective SYEN X3XX Major Elective SYEN X3XX Major Elective