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

Revised 6/5/2021