Current

DEGREE: HONORS BACHELOR OF ELECTRICAL ENGINEERING

MAJOR: ELECTRICAL ENGINEERING

CURRICULUM	**CREDITS**
Superior figures indicate year (1 = freshman, 2 = sophomore, 3 = junior, 4 = senior) and semester (F = fall, S = spring) in which the course should be taken.	
UNIVERSITY REQUIREMENTS	
ENGL 110 Critical Reading and Writing (minimum grade C-)	3(1F)
First Year Experience (FYE)	0-4
Breadth Requirements	3
Discovery Learning Experience (DLE)	12
Multi-cultural Courses	3
Major Requirements	
Breadth Requirements	21
College of Engineering Breadth Requirements The College of Engineering requires 21 total Breadth Requirement credits (essentially 9 credits in addition to the University Breadth Requirement.) • If chosen carefully, up to 3 credits from each of the University Breadth Requirement categories may be used to simultaneously satisfy the College of Engineering Breadth Requirements for this major. • Of the 21 credits, 6 credits must be at the Upper Level (usually 300-level or higher) as designated on the College of Engineering Breadth Requirement list. • Of the 21 credits, 3 credits may be used to satisfy the University Multicultural Requirement (recommended for timely progress toward degree completion.) • All Breadth Requirement coursework must be passed with a minimum grade of C-.	
One of the following four courses must be taken:	3(3F)
ENGL 301 Expository Writing	
ENGL 312 Written Communications in Business	
ENGL 410 Technical Writing	
ENGL 413 Topics in Professional Writing	
EGGG 101 Introduction to Engineering (FYE)	2(1F)
MATH 241 Analytic Geometry and Calculus A	4(1F)
MATH 242 Analytic Geometry and Calculus B	4(1S)
MATH 243 Analytic Geometry and Calculus C	4(2F)
MATH 341 Differential Equations with Linear Algebra I	3(2S)
MATH 342 Differential Equations with Linear Algebra II	3(3F)
CHEM 103 General Chemistry	4(1F)
PHYS 207 Fundamentals of Physics I	4(1S)
PHYS 208 Fundamentals of Physics II	4(2F)
CISC 106 General Computer Science for Engineers	3(1F)
CISC 181 Introduction to Computer Science II	3(1S)
CISC 220 Data Structures	3(2F)

Revised

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PHYS 207 Fundamentals of Physics I	4(1S)
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CISC 106 General Computer Science for Engineers	3(1F)
CISC 181 Introduction to Computer Science II	3(1S)
CISC 220 Data Structures	3(2F)

CPEG 202 Introduction to Digital Systems	3(1S)
CPEG 222 Microprocessor Based Systems	4(2S)
ELEG 205 Analog Circuits I	4(2F)
ELEG 305 Signals and Systems	3(2S)
ELEG 309 Electronic Circuit Analysis I	4(2S)
ELEG 310 Random Signals and Noise	3(3S)
ELEG 320 Field Theory I	4(3F)
ELEG 340 Solid State Electronics	3(3F)
ELEG 491 Ethics and Impacts of Engineering	2(4S)
Three of the following five foundation elective courses must be taken: 3S, 4F	9
ELEG 306 Digital Signal Processing	
ELEG 312 Electronic Circuit Analysis II	
ELEG 403 Communication Systems Engineering	
ELEG 413 Field Theory II	
ELEG 418 Digital Control Systems	
Design Requirement (DLE)	6(4F&S)
In addition to the content of the normal program, every student must take at least six credits in ELEG course designated as "design." Regularly offered ELEG design courses include ELEG 498 offered in the fall and ELEG 499 offered in the spring.	
Technical Electives	15
In addition to the design requirement, each student, in consultation with their advisor, must select a program of technical electives satisfying the following: (1) With some exceptions, technical electives consist of 300-level or above engineering, mathematics, natural sciences, and computer science courses. With the permission of the student's advisor, certain 200-level courses, such as PHYS 211, are permitted. (2) At least 15 technical elective credits must be taken. (3) Of the 15 technical elective credits, at least 9 must be in CPEG or ELEG courses. (4) Of the 9 credits in ELEG or CPEG, at least 6 must be in 400-level or above ELEG or CPEG courses.	
CREDITS TO TOTAL A MINIMUM OF	125

CPEG 202 Introduction to Digital Systems	3(1S)
CPEG 222 Microprocessor Based Systems	4(2S)
ELEG 205 Analog Circuits I	4(2F)
ELEG 305 Signals and Systems	3(2S)
ELEG 309 Electronic Circuit Analysis I	4(2S)
ELEG 310 Random Signals and Noise	3(3S)
ELEG 320 Field Theory I	4(3F)
ELEG 340 Solid State Electronics	3(3F)
ELEG 491 Ethics and Impacts of Engineering	3(4S)
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CREDITS TO TOTAL A MINIMUM OF	126

HONORS BACHELOR OF ELECTRICAL ENGINEERING

A recipient of the Honors Bachelor of Electrical Engineering must satisfy the following:

1. All requirements for the Bachelor of Electrical Engineering degree.
2. All generic University requirements for the Honors Degree. Graduate courses approved for this purpose by the department may be counted as Honors courses