Current		Revised	
DEGREE: HONORS BACHELOR OF COMPUTER ENGINEERING		**DEGREE: HONORS BACHELOR OF COMPUTER ENGINEERING**	
MAJOR: COMPUTER ENGINEERING		**MAJOR: COMPUTER ENGINEERING**	

CURRICULUM	CREDITS	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.

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UNIVERSITY REQUIREMENTS

ENGL 110 Critical Reading and Writing (minimum grade C-)	3^{1F}	ENGL 110 Critical Reading and Writing (minimum grade C-)	3^{1F}
First Year Experience (FYE)	0-4	First Year Experience (FYE)	0-4
Breadth Requirements	12	Breadth Requirements	12
Discovery Learning Experience (DLE)	3	Discovery Learning Experience (DLE)	3
Multi-cultural Courses	3	Multi-cultural Courses	3

Major Requirements

Breadth Requirements   21

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The College of Engineering requires 21 total credits, which includes 9 additional credits above and beyond the 12 University Breadth Requirement credits. Coursework may include courses from the University Breadth Requirement list and the College of Engineering Supplemental Course list. See College of Engineering Breadth Requirements for a detailed description. For timely progress toward degree completion, 3 credits must satisfy the University multi-cultural requirement. All courses must be passed with a minimun grade of C-.

The College of Engineering requires 21 total credits, which includes 9 additional credits above and beyond the 12 University Breadth Requirement credits. Coursework may include courses from the University Breadth Requirement list and the College of Engineering Supplemental Course list. See College of Engineering Breadth Requirements for a detailed description. For timely progress toward degree completion, 3 credits must satisfy the University multi-cultural requirement. All courses must be passed with a minimun grade of C-.

One of the following four courses must be taken:	3^{3F}	One of the following four courses must be taken:	3^{3F}
ENGL 301 Expository Writing		ENGL 301 Expository Writing	
ENGL 312 Written Communications in Business		ENGL 312 Written Communications in Business	
ENGL 410 Technical Writing		ENGL 410 Technical Writing	
ENGL 413 Topics in Professional Writing		ENGL 413 Topics in Professional Writing	
EGGG 101 Introduction to Engineering	2^{1F}	EGGG 101 Introduction to Engineering	2^{1F}
MATH 241 Analytic Geometry and Calculus A	4^{1F}	MATH 241 Analytic Geometry and Calculus A	4^{1F}
MATH 242 Analytic Geometry and Calculus B	4^{1S}	MATH 242 Analytic Geometry and Calculus B	4^{1S}
MATH 243 Analytic Geometry and Calculus C	4^{2F}	MATH 243 Analytic Geometry and Calculus C	4^{2F}
MATH 341 Differential Equations with Linear Algebra I	3^{2S}	MATH 341 Differential Equations with Linear Algebra I	3^{2S}
MATH 342 Differential Equations with Linear Algebra II	3^{3F}	MATH 342 Differential Equations with Linear Algebra II	3^{3F}
CHEM 103 General Chemistry	4^{1F}	CHEM 103 General Chemistry	4^{1F}
PHYS 207 Fundamentals of Physics I	4^{1S}	PHYS 207 Fundamentals of Physics I	4^{1S}
PHYS 208 Fundamentals of Physics II	4^{2F}	PHYS 208 Fundamentals of Physics II	4^{2F}
CISC 106 General Computer Science for Engineers	3^{1F}	CISC 106 General Computer Science for Engineers	3^{1F}
CISC 181 Introduction to Computer Science II	3^{1S}	CISC 181 Introduction to Computer Science II	3^{1S}
CISC 220 Data Structures	3^{2S}	CISC 220 Data Structures	3^{2F}
CISC 361 Operating Systems	3^{3S}	CISC 361 Operating Systems	3^{3S}

Students with adequate programming experience may subsitute the CISC 181, CISC 220, and CISC 280 sequence for CISC 106, CISC 181 and CISC 220 sequence.

CPEG 202 Introduction to Digital Systems	3^{1S}
CPEG 222 Microprocessor Based Systems	4^{2F}
CPEG 323 Introduction to Computer System Engineering	3^{3F}
CPEG 324 Computer Systems Design I	3^{3S}
CPEG 419 Computer Communication Networks	3^{4F}
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 491 Ethics and Impacts of Engineering	2^{4S}

Two of the following five foundation elective courses must be taken: 6

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) 4^{4}

In addition to the normal program, every student must take at least four credits in a CPEG course designated as "design." Regularly offered CPEG design courses include CPEG 410, CPEG 422, and CPEG 460. Other courses may be offered irregularly which satisfy the design requirement. Students should consult with their advisor before selecting their design course or courses.

Technical Electives 12

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 12 technical elective credits must be taken. (3) Of the 12 technical elective credits, at least 6 must be in CPEG or ELEG courses.

CREDITS TO TOTAL A MINIMUM OF 126

HONORS BACHELOR OF COMPUTER ENGINEERING

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

1. All requirements for the Bachelor of Computer 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

One of the following five foundation elective courses must be taken: 3S 3

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 CPEG course designated as "design." Regularly offered CPEG design courses include CPEG 498 offered in the fall and CPEG 499 offered in the spring.

Technical Electives 12

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 12 technical elective credits must be taken. (3) Of the 12 technical elective credits, at least 6 must be in CPEG or ELEG courses.

CREDITS TO TOTAL A MINIMUM OF 125