Current

DEGREE: BACHELOR OF COMPUTER ENGINEERING
MAJOR: COMPUTER ENGINEERING

CURRICULUM

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
First Year Experience (FYE) 0-4
Breadth Requirements 12
Discovery Learning Experience (DLE) 3
Multi-cultural Courses 3

Major Requirements

Breadth Requirements

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 minimum grade of C-.

One of the following four courses must be taken: 3
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 2
MATH 241 Analytic Geometry and Calculus A 4
MATH 242 Analytic Geometry and Calculus B 4
MATH 243 Analytic Geometry and Calculus C 4
MATH 341 Differential Equations with Linear Algebra I 3
MATH 342 Differential Equations with Linear Algebra II 3
CHEM 103 General Chemistry 4
PHYS 207 Fundamentals of Physics I 4
PHYS 208 Fundamentals of Physics II 4
CISC 106 General Computer Science for Engineers 3
CISC 181 Introduction to Computer Science I 3
CISC 220 Data Structures 3
CISC 361 Operating Systems 3
Students with adequate programming experience may substitute 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

Revised

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CPEG 202 Introduction to Digital Systems 3
CPEG 222 Microprocessor Based Systems 428
CPEG 323 Introduction to Computer System Engineering 335
CPEG 324 Computer Systems Design I 338
CPEG 419 Computer Communication Networks 347
ELEG 205 Analog Circuits I 429
ELEG 305 Signals and Systems 334
ELEG 309 Electronic Circuit Analysis I 426
ELEG 310 Random Signals and Noise 338
ELEG 320 Field Theory I 429
ELEG 491 Ethics and Impacts of Engineering 248

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
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

CPEG 222 Microprocessor Based Systems 428
CPEG 323 Introduction to Computer System Engineering 335
CPEG 324 Computer Systems Design I 338
CPEG 419 Computer Communication Networks 347
ELEG 205 Analog Circuits I 429
ELEG 305 Signals and Systems 334
ELEG 309 Electronic Circuit Analysis I 426
ELEG 310 Random Signals and Noise 338
ELEG 320 Field Theory I 429
ELEG 491 Ethics and Impacts of Engineering 248

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

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