

General Education

Foundations: (13 Credits)

Oral Communication: (3 Credits)

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Quantitative Reasoning: (4 Credits)

☐ MATH 1410 Pre-Calculus

Technological Literacy: (3 Credits)

☐ ENGT 1100 Introduction to Engineering Technology

Written Communication: (3 Credits)

☐ ENGL 1200 College Composition

Discoveries: (Credits 29)

At least two (2) disciplines must be represented within each of the three (3) categories.

Art/Humanities: (9 Credits)

☐ ENGL 2230 Writing and the Natural Sciences

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Natural Sciences & Technology: (11 Credits)

☐ MATH 2410 - Calculus I

☐ MATH 2420 - Calculus II

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Social Sciences: (9 Credits)

☐ ECON 2100 Principles of Microeconomics

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Elective/Wellness & Personal Health: (3 Credits)

☐ CMSC 1200 - Problem Solving and Programming Constructs

Competencies:

Applied Methodologies

☐ ECET 2160 Electric Circuits II

Ethical Reasoning

☐ ECET 4900 Senior Project Proposal

Information Literacy

☐ ECET 4900 Senior Project Proposal

Intercultural Fluency

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Keystone Experience

☐ ECET 4910 Senior Project

Quantitative Applications

☐ MATH 2420 - Calculus II

Writing Intensive - Two (2) courses are required

☐ ECET 3560 Microprocessor Engineering

☐ ECET 4910 Senior Project

Program Requirements

Required Major Courses: (71 Credits)

- ☐ ECET 1110 Electric Circuits I
- ☐ ECET 2160 Electric Circuits II
- ☐ ECET 2210 Linear Electronics I
- ☐ ECET 2535 Digital Electronics Design
- ☐ ECET 2570 Intro to Microprocessor Design
- ☐ ECET 3110 Engineering Analysis Methods
- ☐ ECET 3120 Network Analysis
- ☐ ECET 3265 Linear Electronics II
- ☐ ECET 3325 Introduction to Electric Power
- ☐ ECET 3535 Microprocessor Interfacing
- ☐ ECET 3560 Microprocessor Engineering
- ☐ ECET 4210 Instrumentation Design I
- ☐ ECET 4410 Automatic Control Systems
- ☐ ECET 4900 Senior Project Proposal
- ☐ ECET 4910 Senior Project
- ☐ CMSC 1240 Computer Programming I
- ☐ PHYS 1500 General Physics I Lecture
 - ☐ PHYS 1510 General Physics I Lab
- ☐ PHYS 1600 General Physics II Lecture
 - ☐ PHYS 1610 General Physics II Lab
- ☐ ENGL 3230 Technical Writing

Major Electives: (6 Credits) Select two (2) from the following:

- ECET 4220 - Instrumentation Design II
- ECET 4235 - Power System Analysis
- ECET 4326 - Power System Management
- ECET 4327 - Industrial Applications of Power Electronics
- ECET 4430 - RF Communications
- ECET 4460 - Digital Signal Processing
- CMIS 3250 - CISCO CCNA 1
- ECET 4950 - ECET Internship
- ECET 3990 Special Topics in ECET

Free Electives: (2 Credits)

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Suggested Four Year Course Sequence

Year 1

Fall Semester

CMSC 1200 Problem Solving and Prog. Concepts
ENGL 1200 College Composition
ENGT 1100 Intro to Engineering Technology
Any Arts/Humanities Course
Any Social Sciences Course

Spring Semester

CMSC 1240 Computer Programming I
ECET 1110 Electric Circuits I
ENGL 3230 Technical Writing
MATH 1410 Pre-Calculus
Any Approved Oral Communication

Year 3

Fall Semester

ECET 3265 Linear Electronics II
ECET 3325 Introduction to Electric Power
ECET 3535 Microprocessor Interfacing
PHYS 1500 General Physics I Lecture
PHYS 1510 General Physics I Lab

Spring Semester

ECET 3110 Methods in Engineering Analysis
ECET 3120 Network Analysis
ECET 3560 Microprocessor Engineering
PHYS 1600 General Physics II Lecture
PHYS 1610 General Physics II Lab

Year 2

Fall Semester

ECET 2160 Electric Circuits II
ECET 2535 Digital Electronics Design
MATH 2410 Calculus I
Any Arts/Humanities Course
~Or~ Any Intercultural Fluency Course *

**Any Arts/Humanities course that also satisfies the inter-cultural fluency competencies menu*

Spring Semester

ECET 2210 Linear Electronics I
ECET 2570 Intro to Microprocessor Design
MATH 2420 Calculus II
ECON 1000 Elements of Economics
~Or~ ECON 2100 Principles of Microeconomics

Year 4

Fall Semester

ECET 4210 Instrumentation Design I
ECET 4410 Automatic Control Systems
ECET 4900 Senior Project Proposal
Program Elective
Any Arts/Humanities Course

Spring Semester

ECET 4910 Senior Project
Major Elective
Any Social Sciences Course
Any Natural Sciences & Technology course

