

## 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 1000 Elements of Economics

☐ ~Or~ 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

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#### 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 Power Electronics
- ECET 4430 - RF Communications
- ECET 4460 - Digital Signal Processing
- CMIS 3250 - CISCO CCNA 1
- ECET 4950 - ECET Internship

### 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

