

☐ MATH 2420 Calculus II

☐ ECET 4910 Senior Project

Writing Intensive - Two (2) courses are required ☐ ECET 3560 Microprocessor Engineering

Degree: Bachelor of Science

College: Science, Technology, & Business Major: Electrical Engineering Technology

Major Code: ELEC

Concentration: Computer Engineering Technology (CETE)

General Education Program Requirements Foundations: (12 Credits) **Required Major Courses: (46 Credits) Oral Communication (3 Credits)** ☐ ECET 1110 Electric Circuits I ☐ ECET 2160 Electric Circuits II **Quantitative Reasoning (3 Credits)** ☐ ECET 2535 Digital Electronics Design ☐ MATH 1410 Pre-Calculus □ ECET 2570 Intro to Microprocessor Design **Technological Literacy (3 Credits)** ☐ ECET 3535 Microprocessor Interfacing ☐ ENGT 1100 Introduction to Engineering Technology ☐ ECET 3560 Microprocessor Engineering Written Communication (3 Credits) ☐ ENGL 1200 College Composition ☐ ECET 4640 Computer Networking ☐ ECET 4900 Senior Project Proposal **Discoveries:** (29 Credits) ☐ ECET 4910 Senior Project At least two (2) disciplines must be represented within each of the three (3) categories. ☐ CMSC 1240 Computer Programming I **Art/Humanities (9 Credits)** ☐ PHYS 2500 University Physics I Lecture ☐ ~And~ PHYS 2510 University Physics I Lab ☐ PHYS 2600 University Physics II Lecture ☐ ~And~ PHYS 2610 University Physics II Lab ☐ ENGL 3230 Technical Writing Natural Sciences & Technology (11 Credits) Concentration Courses: (24 Credits) ☐ MATH 2420 Calculus II □ ECET 2215 Introduction to Instrumentation ☐ CMSC 2040 Object-Oriented Programming ☐ CMSC 3040 Data Structures Social Sciences (9 Credits) ☐ ECON 1000 Elements of Economics ☐ CMSC 3240 Computer Architecture ☐ ~Or~ ECON 2100 Principles of Microeconomics ☐ CMSC 3320 Technical Computing using JAVA ☐ CMSC 4000 Operating Systems ☐ MATH 1510 Discrete Structures MATH 3210 Linear Algebra I Program Elective/Wellness & Personal Health: (3 Credits) ☐ CMSC 1200 Problem Solving and Programming Constructs **Major Electives: (6 Credits) Competencies:** Choose 2 from: ECET 4950 ECET Internship, ECET 3990 Special Topics **Applied Methodologies** in ECET, CMSC 1380 Introduction to Programming in Python, CMSC 3360 Fortran, CMSC 3140 Analysis of Algorithms, CMSC 4200 Artifi-☐ ECET 2160 Electric Circuits II cial Intelligence, CMSC 4080 Structures of Programming Languages, **Ethical Reasoning** Any ITE course, Any CMSC course over 1240 not listed above, or Any MATH course in statistics or above Calculus II ☐ ECET 4900 Senior Project Proposal **Information Literacy** ☐ ECET 4900 Senior Project Proposal Intercultural Fluency **Keystone Experience** ☐ ECET 4910 Senior Project **Quantitative Applications**

Created: 8/21/2023

Credits Required: 120

Minor: N/A

Minor Code: N/A

Suggested Four Year Course Sequence

Year 1

Fall Semester

CMSC 1200 - Problem Solving and Prog. Concepts

ENGL 1200 - College Composition

ENGT 1100 - Introduction to Engineering Technology

Discoveries: Arts and Humanities Discoveries: Social Sciences

Spring Semester

CMSC 1240 Computer Programming I MATH 1510 Discrete Structures ECET 1110 Electric Circuits I MATH 1410 Pre-Calculus

Foundations: Oral Communication

Year 3

Fall Semester

CMSC 3240 Computer Architecture ECET 3535 Microprocessor Interfacing PHYS 2500 University Physics I PHYS 2510 University Physics I Lab Discoveries: Arts and Humanities or Intercultural Fluency

Spring Semester

CMSC 4000 Operating Systems ECET 3560 Microprocessor Engineering MATH 3210 Linear Algebra I PHYS 2600 University Physics II PHYS 2610 University Physics II Lab

Year 2

Fall Semester

CMSC 2040 Object-Oriented Programming ECET 2160 Electric Circuits II ECET 2535 Digital Electronics Design MATH 2410 Calculus I

Spring Semester

CMSC 3040 Data Structures ECET 2215 Introduction to Instrumentation ECET 2570 Intro to Microprocessor Design ENGL 3230 Technical Writing MATH 2420 Calculus II

Year 4

Fall Semester

ECET 4640 Computer Networking
ECET 4900 Senior Project Proposal
ECON 1000 Elements of Economics
or ECON 2100 Principles of Microeconomics
Major Elective

Discoveries: Arts and Humanities

Spring Semester

CMSC 3320 Technical Computing Using JAVA ECET 4910 Senior Project

Major Elective

Discoveries: Social Sciences

Discoveries: Natural Sciences and Technology



Created: 8/21/2023