8/29/2023

Computer Engineering Curriculum Flowchart

Offered Fall

Offered Fall & Spring

Offered Spring

→ Prerequisite

C → C or better Prerequisite

⟿ Corequisite

C- → C- or better Prerequisite

★ Course partially satisfies senior project prerequisites

ECE 101 Intro to ECE

ECE 100 Seminar

PHY 121 Physics I

MAT 126 Calculus I

CMJ 103 Public Communication

Fall

C-

C

Spring

ECE 177 Intro to Programming

PHY 122 Physics II

MAT 127 Calculus II

ENG 101 College Composition

Fall

ECE 271 ★ Microcomputer Arch & Apps

ECE 198 Object Oriented Programming

ECE 210 Electric Circuits

C

MAT 228 Calculus III

Spring

ECE 275 Sequential Logic

ECE 214 Electrical Networks Lab

C

MAT 258 Diff. Equations & Linear Alg

Statistics Elective (Select one)

CHE 350 Statistical Process Control

Fall

C-

C-

C

ECE 473 ★ Computer Arch & Organization

ECE 342 ★ Electronics I

ECE 314 Signals and Systems

STS 332 Statistics

ECE 316 Random Signal Analysis

Spring

ECE 331 Intro to Unix System Admin

★ *Prerequisite: ECE 271 and any **two** of: ECE 342, ECE 471, ECE 473*

ECE 405 CEN Design Project I

Fall

C

ECE 471 ★ Embedded Systems

COS 331 Operating Systems

COS 250 Discrete Structures

MAT 481 Discrete Mathematics

Discrete Math Elective (Select one)

ECE 406 CEN Design Project II

Spring

Operating Systems Elective (Select one)

ECE 486 Digital Signal Processing

ECE 403 ECE Design Project III

Human Values and Social Context Electives (15 credits in addition to CMJ 103).

HV&SC

HV&SC

HV&SC

HV&SC

HV&SC Elective

- Each course satisfies at least one of five sub-categories.
- Each sub-category must be satisfied at least once.
- Include "Ethics" in at least one course if not elsewhere in course selections.

Technical Electives (19 credits)

ECE Technical Electives (16 credits)

Computer Focus Technical Electives (10 credits)

Computer Focus

Computer Focus

Computer Focus

Computer Focus Electives

Computer Focus o

Computer Focus or other ECE Electives

Computer Focus or other ECE or Generic Elective