Computer Engineering (CPE) 2022 Curriculum Guide

Term 1 (17)

EN 1103 Eng Comp I
ACT English ≥ 17 req.

CH 1213 Fund. Of Chem I
ACT Math ≥ 24 req.

CSE 1284 Intro to Comp. Programming
ACT Math ≥ 24 req.

CH 1211 Invest. In Chem I (lab)

CSE 1384 Interm. Comp. Programming (lab)

Term 2 (18)

EN 1113 Eng. Comp II

CSE 2383 Data Structures

PH 2213 Physics I

MA 1713 Calculus I
ACT Math ≥ 26 req.

MA 1723 Calculus II

MA 2733 Calculus III

ECE 1013 Intro to ECE Design I (lab)

Term 3 (16)

CSE 2813 Discrete Structures

ECE 3714 Digital Devices & Logic Design

ECE 3724 Microprocessors (lab)

MA 3113 Linear Algebra

MA 2723 Calculus II

MA 2733 Calculus IV

MA 3253 Diff. Equations I

ECE 1022 Intro to ECE Design II (lab)

Term 4 (16)

CSE 4833 Algorithms

ECE 4713 Computer Architecture

ECE 3423 Circuits I + ECE 3421 Separate lab

MA 2743 Calculus V

ECE 3244 Electronics I (lab)

MA 3253 Diff. Equations II

ECE 3433 Circuits II

MA 3453 Signals and Systems

Term 5 (16)

General Education Humanity

ECE 4743 Digital System Design (lab)

IE 4613 Eng. Stats I

ECE 4512 ECE Capstone Design I (*)

Term 6 (15)

General Education Social Science

ECE 4522 ECE Capstone Design II

Term 7 (14)

General Education Fine Art

CPE Technical Elective (pre-reqs vary)

Term 8 (14) +1

General Education Social Science

CPE Technical Elective (pre-reqs vary)

Legend

Prerequisite (credit required with min. grade shown)
Corequisite (credit in or registration for course is required)
Either/Or (credit required for one of these two courses)

You are not required to take these classes in this exact order. If you meet pre-reqs, you can take the class.
Courses outlined in black require a grade of "C" or better.
General Education Electives must come from MSU Core-Approved list.
See advisor for Elective options
* must be 70% complete with program requirements
https://www.ece.msstate.edu/academics/undergraduate/computer-engineering/curriculum/