BS-CompE Prerequisite Flowchart

Key: Prerequisite = solid arrow (not vertical)
Alternative prereq = dashed arrow
Co-requisite = solid vertical arrow
Alternative co-req = dashed vertical arrow
Required for graduation as CompE = solid outline
CompE elective = dashed outline

Prerequisite Flowchart for BS-Computer Engineering

ENGIN 112  Intro. to ECE
MATH 131  Calculus I
PHYSICS 151  Physics I
ENGLWRIT 112  College Writing

MATH 132  Calculus II
PHYSICS 152  Physics II

ECE 122  Intro. Programming
ECE 124  Digital Systems

ECE 201  Analytical Tools for ECE
ECE 202  Computational Tools for ECE
ECE 209  Signals & Systems

ECE 210  Circuits & Electronics I
ECE 211  Circuits & Electronics II
ECE 212  Circuits & Electronics III

ECE 213  Continuous-Time Signals & Systems
ECE 214  Probability & Statistics
ECE 221  Signals & Systems

ECE 231  Intro. Embedded Systems

ECE 241  Advanced Programming
ECE 291  Advanced Programming

CS 250† Intro. to Computation

ECE 303  Junior Seminar
ECE 304  Junior Design Project

ECE 321  Intro. Security Engineering
ECE 322  Systems Programming
ECE 331  Hardware Organization

ECE 332  Embedded Systems Lab

ECE 341  Algorithms for CompE
ECE 342  Algorithms for CompE
ECE 343  Algorithms for CompE
ECE 344  Algorithms for CompE

ECE 371  Intro. Security Engineering

ECE 376  Embedded Systems Lab

ECE 381  Computer Hardware Design
ECE 382  Computer Hardware Design
ECE 383  Computer Hardware Design

ECE 504  Computer Hardware Design
ECE 505  Computer Hardware Design
ECE 506  Computer Hardware Design

ECE 597  Hardware Design
ECE 597  Machine Learning
ECE 597  Embedded Systems

ECE 597  Computer Architecture
ECE 597  Embedded Systems
ECE 597  Modeling Embedded Systems

NOTE: Check SPIRE for availability, as well as a complete list of prerequisites, notes, and recommendations for ALL ECE 5xx courses. (Prerequisites that are required courses are not shown.)

29-Oct-21 1:00am
BS-CompE Prerequisite Flowchart (continued)

CompE 21+
Computer Engineering
Classes of 2021 and beyond

(Fall 2021)                (Spring 2022)

- ECE 597IP
  Image Processing
- ECE 597ML
  Machine Learning
- ECE 564
  Communication Systems
- ECE 311
  Intermediate Electronics
- ECE 559
  VLSI Design Project
- ECE 565
  Digital Signal Processing
- ECE 315
  Signal Processing Methods
- ECE 310
  Circuits & Electronics II
- ECE 558
  Intro. VLSI
- ECE 334
  Fields & Waves II
- ECE 333
  Fields & Waves I
- ECE 344
  Fundamentals of Semiconductors
- ECE 580
  Feedback Control
- ECE 572
  Opto-Electronics
- ECE 571
  Microelectronic Fabrication

NOTES:

- Check SPIRE for the availability of ECE 5xx courses, as these offerings can change.

- Check SPIRE also for prerequisites, notes and recommendations for all ECE 5xx courses, as the prerequisites are might NOT be shown if they are required 200- or 300-level courses.

ECE 201
Analytical Tools for ECE

ECE 213
Continuous-Time Signals & Sys.

ECE 214
Probability & Statistics

ECE 210
Circuits & Electronics I

ECE 231
Intro. Embedded Systems

PHYSICS 152
Physics II

(ECE 396S)

(MATH 233)

29-Oct-21 1:00am