CompE 21+

Computer Engineering
Classes of 2021 and beyond

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

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

ENGIN 351
Writing in Engineering

ECE 124
Digital Systems

ECE 122
Intro. Programming

ECE 214
Probability & Statistics

ECE 201
Analytical Tools for ECE

ECE 202
Computational Tools for ECE

ECE 210
Circuits & Electronics I

ECE 213
Continuous-Time Signals & Sys.

ECE 214
Intro. Security Engineering

ECE 303
Junior Seminar

ECE 304
Junior Design Project

ECE 322
Systems Programming

ECE 325
Computer Networking

ECE 331
Intro. Embedded Systems

ECE 332
Embedded Systems Lab

ECE 341
Algorithms for CompE

ECE 371
Intro. Security Engineering

ECE 568
Computer Architecture

ECE 597AM
System Software Design

ECE 597LS
Hardware Design Machine Learning

ECE 597LP
Low-Power Embedded Systems

ECE 597SD
Networked Embedded Systems

ECE 597AA
AI Based Wireless Network Design

ECE 597SV
Synth./Verification of Digital Systems

ECE 597NP
Network Security & Privacy

ECE 547
Security Engineering

ECE 415
Senior Design Project I

ECE 416
Senior Design Project II

(Electives)

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.)
### CompE 21+

**Computer Engineering**

**Classes of 2021 and beyond**

**Fall 2022**
- ECE 597IP
  - Image Processing

**Spring 2023**
- ECE 597ML
  - Machine Learning for Engineers
- ECE 564
  - Communication Systems

**ECE 5xx Courses**

- ECE 565
  - Digital Signal Processing
- ECE 315
  - Signal Processing Methods
- ECE 310
  - Circuits & Electronics II
- ECE 331
  - Intermediate Electronics
- ECE 558
  - VLSI Design Principles
- ECE 559
  - VLSI Design Project

**Fall 2022**
- ECE 580
  - Feedback Control

**Spring 2023**
- ECE 333
  - Fields & Waves I
- ECE 334
  - Fields & Waves II
- ECE 344
  - Fundamentals of Semiconductors
- ECE 572
  - Opto-Electronics
- ECE 571
  - Microelectronic Fabrication

### OPEN COURSES

- 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 201
  - Analytical Tools for ECE
- [MATH 233]

### 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.