BS-EE 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 EE = solid outline
- EE elective = dashed outline

**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.)

**EE 21+**

Electrical Engineering Classes of 2021 and beyond

(Fall 2022)  (Spring 2023)

- ECE 597IP Image Processing
- ECE 564 Communication Systems
- ECE 565 Digital Signal Processing
- ECE 597ML Machine Learning for Engineers
- ECE 580 Feedback Control
- ECE 575 Intro. Analog IC Design
- ECE 597BE Bio-Electronics
- ECE 597AM Applied Machine Learning for IOT
- ECE 597DE Data-Enabled Electricity Nets
- ECE 558 VLSI Design Principles
- ECE 559 VLSI Design Project
- ECE 415 Senior Design Project I
- ECE 416 Senior Design Project II

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BS-EE Prerequisite Flowchart (continued)

ECE 122
Intro. Programming

ECE 201
Analytical Tools for ECE

ECE 224
Modern Physics & Materials for EE

ECE 222
Intro. Embedded Systems

ECE 224
Multivariate Calculus

ECE 221
Probability & Statistics

ECE 223
Calculus II

ECE 224
Fundamentals of Semiconductors

ECE 224
Advanced Programming

ECE 231
Intro. Embedded Systems

ECE 234
Fields & Waves I

ECE 234
Fields & Waves II

ECE 232
Systems Programming

ECE 232
Microelectronics Fabrication

ECE 231
Hardware Organization

ECE 233
Intro. Security Engineering

ECE 234
Algorithms for CompE

ECE 232
Embedded Systems Lab

ECE 231
Low-Power Embedded Systems

ECE 233
Microwaves I

ECE 232
Opto-Electronics

ECE 233
Microwaves II

ECE 233
Opto-Electronics

ECE 234
Intro. Security Engineering

ECE 234
Low-Power Embedded Systems

ECE 235
Security Engineering

MATH 233
Multivariate Calculus

MATH 132
Calculus II

PHYSICS 152
Physics II

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 NOT shown if they are required 200- or 300-level courses.

(EE 21+)
Electrical Engineering Classes of 2021 and beyond

ECE 570
System Software Design

ECE 571
Microelectronic Fabrication

ECE 572
Opto-Electronics

ECE 584
Antennas & Propagation

ECE 585
Microwaves II

ECE 597AP
Neuromorphic Engineering

ECE 597SV
Synth./Verification of Digital Systems

ECE 597MB
Modeling Embedded Systems

EE 21+
Classes of 2021 and beyond

(March 2022) (Spring 2023)

Electrical Engineering

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