

RECOMMENDED
BACKGROUND

HELPFUL BUT
NOT ESSENTIAL

MA1022 (concurrent)

Start

ECE1799 [A][][][]
Frontiers and
Current Issues
of ECE

(FOR BOTH
DECIDED &
UNDECIDED
STUDENTS)

PH1120/1121

PH1120/1121, MA1024,
& MA2051 (concurrent)

ECE250X [][][] [D]
Introduction to
Contemporary
Power Systems

ECE2019 [A][C][][]
Sensors,
Circuits, and
Systems

ECE2311 [][B][][] [D]
Continuous-Time
Signal & System
Analysis

ECE2049 [A][][C][][]
Embedded
Computer
Systems

ECE2029 [][B][][] [D]
Intro. Digital
Circuits &
Computer Eng.

ANY 3

ECE3501 [A][][][]
Electrical
Energy
Conversion

ECE2112 [][][C][][]
Electromagnetic
Fields

ECE2201 [A][][C][][]
Microelectronic
Circuits I

ES3011 [A][][][]
Control
Engineering I

ECE2312 [A][][C][][]
Discrete Time
Signal & System
Analysis

ECE2305 [][][][] [D]
Introduction to
Communication
Networks

ECE2799 [][B][][] [D]
ECE
Design

ECE3849 [][B][][] [D]
Real-Time
Embedded
Systems

ECE3829 [A][][C][][]
Advanced Digital
System Design
with FPGAs

MQP

ECE3503 [][B][][]
Power
Electronics

ECE3204 [][B][][] [D]
Microelectronic
Circuits II

ECE3311 [][][B][][]
Principles of
Communication
Systems

ECE3308 [A][][][]
Introduction to
Wireless
Networks

ECE3113 [A][][][]
RF Circuit
Design

ECE4904 *Cat. II*
Semiconductor
Devices

ECE4902 [][][][] [C]
Analog IC
Design

ECE4703 [][B][][]
Real-Time
Digital Signal
Processing

ECE4305 [][][C][][]
Software-Defined
Radio Systems
& Analysis

ECE4011 *Cat. II*
Biomedical
Signal
Analysis

ECE4801 [][][][] [C]
Advanced
Computer System
Design

POWER
ELECTRONICS

RF CIRCUITS &
MICROWAVES

ANALOG
MICROELECTRONICS

COMMUNICATIONS &
SIGNAL ANALYSIS

BIOMEDICAL
ENGINEERING

ELECTRICAL ENGINEERING

COMPUTER ENGINEERING