2021-2022 TTC Catalog - Electrical and Computer Engineering (ECE)

ECE 205 - Electrical and Computer Lab I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course covers basic test and measurement instrumentation, basic electrical components and circuits, and technical writing using word processing.

Corequisite

ECE 221

Grade Type: Letter Grade

Division: Engineering and Construction

ECE 221 - Introduction to Electrical Engineering I

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course introduces the basic concepts of circuit analysis, applying fundamental laws and principles, resistor circuits, and first- and second-order linear circuits in the time domain using calculus-based solutions where applicable.

Prerequisite

EGR 269

and

MAT 141

Grade Type: Letter Grade

Division: Engineering and Construction

ECE 222 - Introduction to Electrical Engineering II

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course covers sinusoidal steady-state analysis of AC circuits, complex frequency analysis, Fourier series analysis and Laplace transforms.

Prerequisite

ECE 221

Grade Type: Letter Grade

Division: Engineering and Construction