

# 2019-2020 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**

Spring  
Summer

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

### **Corequisite**

ECE 205

**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

---