

# 2018-2019 TTC Catalog - Electronics Engineering Technology (EET)

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## **EET 001 - EET 001**

**Lec:** 0 **Lab:** 0 **Credit:** \*

Indicates credit given for electronics engineering technology course work transferred from another college for which there is no equivalent course at TTC. \*Hours vary depending on external course.

**Division:** Engineering and Construction

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## **EET 113 - Electrical Circuits I**

**Lec:** 2.5 **Lab:** 4.5 **Credit:** 4.0

This course is a study of direct and alternating currents, covering resistance and impedance in series, parallel and series-parallel circuits using Ohm's Law, Kirchhoff's laws, and basic circuit theorems. Circuits are analyzed using mathematics and verified using electrical instruments.

### **Prerequisite**

EGR 104

or departmental approval

### **Corequisite**

MAT 110

or

MAT 170

**Grade Type:** Letter Grade

**Division:** Engineering and Construction

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## **EET 131 - Active Devices**

**Lec:** 3.0 **Lab:** 3.0 **Credit:** 4.0

This course is a study of semiconductor theory and principles, diodes and diode circuits, transistors and transistor circuits, and other components. Circuits are modeled, constructed and tested.

### **Prerequisite**

EET 113

**Grade Type:** Letter Grade

**Division:** Engineering and Construction

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## **EET 145 - Digital Circuits**

**Lec:** 2.5 **Lab:** 4.5 **Credit:** 4.0

This course is a study of number systems, basic logic gates, Boolean algebra, logic optimization, flip-flops, counters and registers. Circuits are modeled, constructed and tested.

### **Prerequisite**

EEM 114

or

EGR 104

**Grade Type:** Letter Grade

**Division:** Engineering and Construction

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## **EET 242 - Voice, Data and Video Transmission**

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

This course is a study of voice, data, and video transmission over wireless and wireline technologies with a focus on building infrastructure service and applications for high performance network systems.

### **Prerequisite**

EET 145

**Grade Type:** Letter Grade

**Division:** Engineering and Construction

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## **EET 274 - Selected Topics in Electrical-Electronics Technology**

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

This course is a current study of current topics related to electrical electronics engineering technology. Technical aspects of practical applications are discussed.

### **Prerequisite**

EET 145

**Grade Type:** Letter Grade

**Division:** Engineering and Construction

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