2024-2025 TTC Catalog - Electronics Engineering Technology (EET)

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

EET 113 - Electrical Circuits I

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

Course Offered

Spring

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

EET 131 - Active Devices

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

Course Offered

Summer

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

EET 210 - Digital Integrated Circuits

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

Course Offered

Spring

This course is a study of digital integrated circuits, including multiplexers, demultiplexers, buffers, decoders, encoders, converters, memory devices, and programmable logic devices. Circuits are modeled, constructed, and tested.

Prerequisite

EGR 104

or

EEM 114

Grade Type: Letter Grade

Division: Engineering and Construction

EET 212 - Industrial Robotics

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

Course Offered

Spring

This course is the study of the systems design, modeling and simulation, signals and control systems, AI, sensor integration, vision systems, robot programming, and principles of mechatronics.

Prerequisite

AMT 105

Grade Type: Letter Grade

Division: Engineering and Construction

EET 274 - Selected Topics in Electrical-Electronics Technology

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

Course Offered

Summer

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

Grade Type: Letter Grade

Division: Engineering and Construction
