

ESET - Electronics Systems Engineering Technology

Courses

ESET 220 Microprocessors and Microcontrollers

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on designing, programming, and troubleshooting microprocessor systems and applications. Topics include: assembly language programming, interrupt and polled input/output (I/O), interrupt service routines, parallel ports, timer functions, serial interfaces, analog-to-digital (A/D) converters, and external hardware interfaces.

This course is offered online only.

Prerequisites: IT 100 or IT 101, and EET 121

ESET 251 Electronics

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on semiconductor and amplifier theory and application.

Topics include: diode circuits and basic power supplies; bipolar transistor, field-effect transistor (FET), thyristor, and operational amplifier theory; inverters; circuit construction; and troubleshooting.

Prerequisites: EET 132 (minimum grade C)

Ohio Transfer Assurance Guide Approved

ESET 290 Electronic Systems Engineering Technology Capstone Project

4 Credits. 2 Lecture Hours. 4 Lab Hours.

Students design a system using analog and digital electronics concepts, and prepare and deliver a professional presentation of their completed project. Topics include: design theory, feasibility study, engineering economics, and presentation skills.

Prerequisites: EET 122 and ESET 251