ELECTRONICS TECHNOLOGY (ELT)

ELT F101  Basic Electronics: DC Physics
4 Credits
Offered As Demand Warrants
Basic terms and units. Use of test equipment, hand tools and techniques of soldering. Ohm's law, fundamentals of magnetism, DC circuit analysis, inductance and capacitance in DC circuits.
Prerequisites: Placement in MATH F054 or TTCH F131.
Lecture + Lab + Other: 4 + 0 + 0

ELT F102  Basic Electronics: AC Physics
4 Credits
Offered As Demand Warrants
Principles of alternating current, vectors, phase relationships, inductive and capacitive reactance and impedance. AC circuit analysis, series and parallel resonant circuits, transformers and network analysis.
Prerequisites: ELT F101, MATH F105 (may be taken concurrently).
Lecture + Lab + Other: 4 + 0 + 0

ELT F108  Arithmetic/Dc Circuits
3 Credits
Offered As Demand Warrants
Lecture + Lab + Other: 3 + 0 + 0

ELT F109  Arithmetic/AC Circuits
3 Credits
Offered As Demand Warrants
Lecture + Lab + Other: 3 + 0 + 0

ELT F111  FCC Amateur and General Radiotelephone Operator Licensing
1-3 Credits
Offered As Demand Warrants
An introduction to the study of radio frequency transmission and receiving will be taught. Basic AC electronics in the radio frequency ranges will be studied. Some of the circuits studied are oscillators, modulators, mixers, amplifiers and filters. The classes will include a hands-on demonstration as part of the lecture. Completion of the class will give the student the instruction necessary to complete an Amateur Radio License test and a background for the General Radiotelephone Operator commercial test (GROL).
Lecture + Lab + Other: 1-3 + 0 + 0

ELT F122  Intro/Electronic Devices
3 Credits
Offered As Demand Warrants
Lecture + Lab + Other: 3 + 0 + 0

ELT F123  Electronic Circuit Fund
3 Credits
Offered As Demand Warrants
Lecture + Lab + Other: 3 + 0 + 0