

VOC: ELECTRONICS COMMUNICATIONS

#24210

In addition to courses in electronics fundamentals, the Electronics Communications certificate program encompasses the study of both wire-based and wireless forms of analog and digital communications systems. Topics include amplitude and frequency modulation, multiplexing, antennas, transmission lines, and radio-wave propagation, as well as microwave systems, including radar and satellite operations.

Program Learning Outcomes

- Students will be technically competent.
- Students will be employed or seeking employment in the field or a related field.
- Students will employ polar and/or rectangular notation to determine the magnitude and phase shift of an unknown circuit parameter (voltage, current, impedance, and/or power).

Review Student Learning Outcomes (SLOs) (<http://www.mtsac.edu/instruction/outcomes/sloinfo.html>) for this program.

Required Courses

| | |
|-----------|--|
| VOC EL11 | Technical Applications in Microcomputers |
| VOC EL12 | Computer Simulation and Troubleshooting |
| VOC EL50A | Electronic Circuits (DC) |
| VOC EL50B | Electronic Circuits (AC) |
| VOC EL51 | Semiconductor Devices & Circuits |
| VOC EL53 | Communications Systems |
| VOC EL55 | Microwave Communications |
| VOC EL56 | Digital Electronics |
| VOC EL61 | Electronic Assembly and Fabrication |
| VOC TCH60 | Customer Relations for the Technician |

Back to Vocational Programs (<http://catalog.mtsac.edu/programs/noncredit-programs/programsaz/vocational-programs>)