



# West Virginia State Community and Technical College



West Virginia State Community and Technical College is regionally accredited with the North Central Association and is a Servicemembers Opportunity College.

## Radio Communications

### CATALOG DESCRIPTION:

A 30 hour course designed for those working in either Avionics or Telecommunications. The course covers the Federal Communication Commission's rules and regulations as well as the theories of; radio wave propagation, electrical principles, circuit components practical circuits, signals emissions, antennas, and feed lines. The course provides the knowledge base for legally operating and maintaining fixed land based and mobile air, sea, and land based radio transmitters.

### COURSE OBJECTIVE:

To prepare students working in either Avionics or Telecommunications to legally operate and maintain fixed land based and mobile air, sea, and land based radio transmitters. Upon completion of this course students should be prepared to pass elements one and three of the Federal Communication Commission's General Radio Operators License

### COURSE LEARNING OUTCOMES:

Upon completion of the course the students should be able to understand the theory of:

- Radio Operating Procedures
- Radio Wave Propagation
- Electrical Principles
- Circuit Components
- Practical Circuits
- Signals and Emissions
- Antennas and Feed Lines

Students should also be able to operate within the following FCC rules and regulations.

- FCC Rules and Regulations Parts 1, 13, 23, 73, 80, and 87