

# ELT 254: Robot Maintenance and Troubleshooting

This course introduces principle concepts troubleshooting and maintenance of robots. Topics include recognize and describe major robot component. Students will learn to diagnose robot mechanical problems to the component level, replacement of mechanical components and perform adjustments, troubleshooting class 1, 2, and 3 faults, to manipulate I/O for the robot, and periodic and preventive maintenance. Students will learn how to safely power up robots for complete shutdown and how to manipulate robots using the teach pendant. Upon completion students will be able to describe the various robot classifications, characteristics, explain system operations of simple robots, and maintain robotic systems. Also taught as INT 254.

**hours:** 3

**Lab Hours:** 2

**Theory Hours:** 2

**Program:** [Electrical Technology](#)