Engineering Technology – Electrical/Electronic Fundamentals Certificate

Program Mission Statement

The mission of the Electrical/Electronic Fundamentals Certificate of the Technologies department is to provide a quality-learning environment conducive to providing students with the skills and competencies necessary for entry level employment or career advancement as a technician in a broad range of fields that require basic electrical/electronic knowledge and skills. The education can be used to transfer to the two-year college level.

Student Outcomes/Program Outcomes

The graduating student will be able to:

PO-1. Use and understand technical vocabulary and symbols and read and prepare technical documents including charts, tables, and graphs in the electrical/electronic field.

PO-2. Demonstrate information technology skills including word processing, spreadsheets, introduction to computer programming, and internet research.

PO-3. Demonstrate the ability to use computer aided drawing (CAD) software to create and manage technical drawings and schematics in the electrical/electronic field.

PO-4. Demonstrate the ability to solve technical problems in basic dc circuits using a scientific calculator.

PO-5. Demonstrate the ability to measure electrical/electronic quantities using state-of-the-art instruments.

PO-6. Demonstrate the ability to solve technical problems in basic electronic circuits.

Note: Faculty members will evaluate performance using a variety of assessment rubrics developed by the program’s assessment committee.