

# Electronics Technician Tier II

## Certificate of Technical Studies Degree

This program is currently under review - please contact Flathead Valley Community College: [http://catalog.fvcc.edu/preview\\_program.php?catoid=3&poid=476#tierielectronicstechniciancertificate](http://catalog.fvcc.edu/preview_program.php?catoid=3&poid=476#tierielectronicstechniciancertificate)

This program is designed to give students the technical skills, as well as interpersonal skills, that will prepare them for placement into electronics technician positions. Students gain theoretical knowledge and hands-on experience with both basic and advanced electronics including circuits, controllers, and the machine to system interface.

More information about this program can be found at: [http://catalog.fvcc.edu/preview\\_program.php?catoid=3&poid=476#tierielectronicstechniciancertificate](http://catalog.fvcc.edu/preview_program.php?catoid=3&poid=476#tierielectronicstechniciancertificate)

### Outcomes

## Graduates are prepared to:

- Analyze, configure, troubleshoot and assist in designing and measuring electrical and electronic circuits and systems;
- Read and describe the characteristics of basic circuitry and compute circuit capacity;
- Demonstrate wiring design and identify basic electrical components;
- Troubleshoot analog and digital circuits using standard and specialized test equipment;
- Program and troubleshoot PLC systems for basic system control;
- Describe how various industrial processes are coalesced using advanced PLC techniques;
- Demonstrate the use of electrical, electronic solid state, digital, and pneumatic transmitters in practical process control instrumentation; and
- Effectively communicate during problem solving and troubleshooting.

### Estimated Cost

## Estimated Resident Program Cost\*

|                    |         |
|--------------------|---------|
| Tuition and Fees   | \$1,627 |
| Application Fee    | \$30    |
| Online Course Fees | \$240   |
| Course Fees        | \$165   |
| Tools/clothing     | varies  |
| Books/Supplies     | \$500   |
| Total              | \$2,620 |

\* **Fall 2017 MUS Student Health Insurance Premiums will be changing. Please check the Health Insurance website (<http://students.gfcmsu.edu/insurance.html>) and/or Student Central for confirmed premium rates. Students will be charged an additional fee of \$21 per credit for online/hybrid courses.**

### Program Requirements

Many students need preliminary math and writing courses before enrolling in the program requirements. These courses may increase the total number

of program credits. Students should review their math and writing placement before planning out their full program schedules.

| Course                       | Title                            | Credits | Grade/Sem |
|------------------------------|----------------------------------|---------|-----------|
| <b>Spring Semester</b>       |                                  |         |           |
| ELCT 102                     | Electrical Fundamentals II *,+   | 4       | _____     |
| ELCT 111                     | Electric Meters and Motors +     | 3       | _____     |
| ETEC 130                     | Panel Wiring & Soldering +       | 2       | _____     |
| PHSX 110                     | Applied Physics *,+              | 4       | _____     |
| Select one of the following: |                                  |         |           |
| BMGT 205                     | Prof Business Comm *,+           | 3       | _____     |
| COMX 115                     | Intro to Interpersonal Communc + | 3       | _____     |
| Total                        |                                  | 16      | _____     |

\* Indicates prerequisites needed.

\*\* Placement in course(s) is determined by placement assessment.

+ A grade of C- or above is required for graduation.