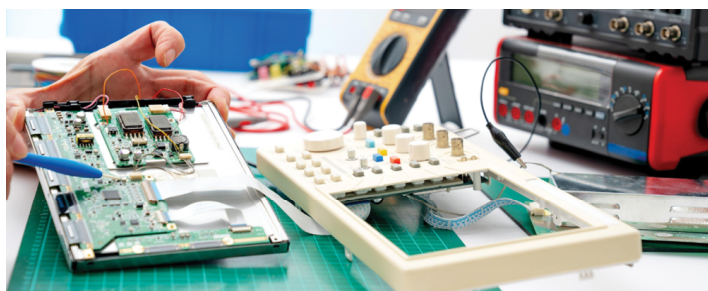


ELECTRICAL/ELECTRONIC ENGINEERING TECHNOLOGY WITH A CONCENTRATION IN BIO-MEDICAL, ASSOCIATE OF APPLIED SCIENCE



Technology has impacted biomedical equipment in the health field. Bio-medical engineering technicians are needed to perform safety checks, preventive maintenance, calibration and repair various bio-medical pieces of equipment. This general bio-medical equipment may involve infusion pumps, ventilators, patient monitors, electrosurgery units, defibrillators and other medical apparatus. Students completing the biomedical program in electrical engineering technology will find jobs in hospitals, medical equipment manufacturers or third-party service organizations associated with hospitals.

Program contact: Learn more

This degree program contains one or more embedded certificates which will be automatically awarded when the certificate requirements are completed. If you do not want to receive the embedded certificate(s), please notify the Office of the Registrar at RegistrarOffice@tri-c.edu.

Learn more about how certificate credits apply to the related degree.

Related Degrees and Certificates

- Electrical/Electronic Engineering Technology with a Concentration in Digital Communications, Including RF, Radio Frequency, Associate of Applied Science
- Electrical/Electronic Engineering Technology, Associate of Applied Science
- Electronic Engineering Technician, Certificate of Proficiency

Program Admission Requirements

- High School Diploma/GED
- ENG-0995 Applied College Literacies or appropriate score on English Placement Test.
- MATH-0965 Intermediate Algebra or qualified Math Placement.

Program Learning Outcomes

This program is designed to prepare students to demonstrate the following learning outcomes:

- Use organizational skills for time management, scheduling, and resource allocation to meet and satisfy organizational, quality and customer regulatory requirements.
- Work independently and as a member of a diverse team while maintaining a high-level of professionalism.
- Communicate in a clear, concise written and verbal manner to all levels of clinical and non-clinical staff.
- Utilize information gathered through the troubleshooting process and develop and communicate an action plan to correct medical equipment, patient and user issues in a timely and efficient manner.
- Perform all aspects of medical equipment support and service, including but not limited to inspection, repair, installation and networking in the healthcare industry.
- Prepared to sit for the certified Bio Medical Equipment Technician Exam.

Suggested Semester Sequence

| First Semester | | Credit Hours |
|------------------------------|---|--------------|
| EET-1161 | Direct Current Circuits | 3 |
| EET-1180 | Surface Mount Soldering | 1 |
| MET-1100 | Technology Orientation | 2 |
| COMM-1000 | Fundamentals of Interpersonal Communication | 3 |
| Select one of the following: | | 3 |
| ENG-1010 | College Composition I | |
| ENG-101H | Honors College Composition I | |
| Credit Hours | | 12 |
| Second Semester | | Credit Hours |
| BIO-1050 | Human Biology | 3 |
| BIO-105L | Human Biology Laboratory | 1 |
| EET-1210 | AC Electric Circuits | 3 |
| EET-1241 | Digital Fundamentals | 3 |
| Select one of the following: | | 3 |
| ENG-1020 | College Composition II | |
| ENG-2151 | Technical Writing | |
| Select one of the following: | | 4 |
| MATH-1530 | College Algebra | |
| MATH-153H | Honors College Algebra | |
| Credit Hours | | 17 |
| Third Semester | | Credit Hours |
| EET-2112 | Industrial Electronics | 3 |
| EET-2120 | Electronics I | 3 |
| EET-2170 | Signal Analysis | 3 |
| EET-2400 | Biomedical Instrumentation I | 3 |
| Select one of the following: | | 3 |
| MATH-1540 | Trigonometry | |
| MATH-154H | Honors Trigonometry | |
| Credit Hours | | 15 |
| Fourth Semester | | Credit Hours |
| EET-2220 | Electronics II | 3 |
| EET-2410 | Biomedical Instrumentation II | 3 |
| EET-2490 | Biomedical Design Project | 2 |
| PHYS-1210 | College Physics I | 4 |

| | | |
|------------------------------|-------------------------|-----------|
| ITNT-2300 | Networking Fundamentals | 3 |
| Select one of the following: | | 3 |
| PHIL-2020 | Ethics | |
| PHIL-202H | Honors Ethics | |
| Credit Hours | | 18 |
| Summer Completion | | |
| EET-2901 | Clinical Internship | 3 |
| Credit Hours | | 3 |
| Total Credit Hours | | 65 |

MATH-1140, MATH-1141, MATH-1200, MATH-1270, and MATH-1280 can no longer count towards fulfilling the college-level mathematics requirement. These courses were re-classified as developmental mathematics by the state of Ohio in 2016. Tri-C established a 5-year transitioning window for students who had completed these courses prior to 2016 to apply them towards meeting graduation requirements, which expired in Summer 2021. It is highly recommended to see a counselor to determine the appropriate math required for your current major.