The Electrical Engineering Technology Program has enjoyed more than 50 years of service to the local community. It is the only A.A.S. degree-granting electronics program in Western New York that offers Engineering Technology Accreditation Commission/Accreditation Board for Engineering and Technology, Inc. (ETAC/ABET) accreditation. This program prepares students for entry-level skills as technicians in the fields of electronics, computers, communications, instrumentation, automation and power. It also provides the basis for transferring to a four-year engineering technology program.

Faculty meet the highest standard of academic excellence for technician education. Their credentials include graduate degrees in engineering or a related field, along with professional engineering experiences that enrich the classroom presentation. A close liaison between the faculty and their industrial advisory council ensures that the curriculum content prepares the graduate for entry into the local job market.

**CAREER PATHS**
Electronics; computers; communications; instrumentation; automation and power; or transfer to a four-year college BTech or BS program in electrical engineering technology or related field.

**PROGRAM COMPETENCIES**
Upon completion of this program, the graduate will be able to:
- interpret electrical and electronics schematics using ANSI standard symbols;
- construct an analog or digital circuit, including fabrication, given its schematics; recognize electronic devices and their coded values;
- understand and apply electrical, electronic, and logic principles, concepts, laws, and rules, to the analysis of circuit and/or system operation and failure determination;
- demonstrate the ability to use electrical and electronic instruments to perform standard tests, measurements, and tasks;
- use industry standard computer applications (such as Multisim, PLC software, microcontroller IDE);
- use a variety of sources to acquire and critically evaluate needed technical information, and use it in an ethical, professional and legal manner;
- communicate technical information through well written reports, graphical forms, and oral and visual presentations; and
- function effectively as a member of a technical team.

**CURRICULUM**
Total Degree Credits: 64.0

**Full-Time Students, Two-year Sequence**

**FIRST YEAR, FALL SEMESTER**
- EL 116 Digital Fundamentals ........................................ 2 cr
- EL 117 Lab for EL 116 .................................................. 1 cr
- EL 118 Electrical Circuits I ........................................... 2 cr
- EN 100 or EN 110 based on department advisement ........ 3 cr
- MT 125 College Mathematics ........................................ 4 cr
- PH 260 Technical Physics I .......................................... 3 cr
- PH 261 Lab for PH 260 .................................................. 1 cr

**FIRST YEAR, SPRING SEMESTER**
- EL 154 Electronics I ..................................................... 3 cr
- EL 155 Lab for EL 154 ................................................... 1 cr
- EL 158 Electrical Circuits II .......................................... 3 cr
- EL 159 Lab for EL 158 ................................................... 1 cr
- EL 162 Digital Systems .................................................. 2 cr
- EL 163 Lab for EL 162 ................................................... 1 cr
- EL 223 Electronic Fabrication .......................................... 1 cr
- MT 126 College Mathematics II ...................................... 4 cr

**SECOND YEAR, FALL SEMESTER**
- EL 123 Electronic Circuit Simulation ................................ 1 cr
- EL 202 Electrical Circuits III .......................................... 3 cr
- EL 203 Lab for EL202 ................................................... 1 cr
- EL 214 Electronics II ..................................................... 3 cr
- EL 217 Lab for EL 214 ................................................... 1 cr
- EL 260 Programmable Logic Controllers ....................... 3 cr
- MT 175 Survey of Calculus I .......................................... 4 cr or
- PH 262 Technical Physics II .......................................... 3 cr
- PH 263 Lab for PH 262 ................................................... 1 cr

**SECOND YEAR, SPRING SEMESTER**
- EL 210 Microcontrollers .............................................. 3 cr
- Electrical Engineering Technical Elective (with a laboratory) 4 cr
- Electrical Engineering Technical Elective (with or without a laboratory) 3-4 cr
- Electrical Engineering Technical Elective .......................... 3 cr
- SUNY General Education Elective – Social Science or Humanities ..................................................... 3 cr

**Technical Electives**
- EL 206 Machines and Control ......................................... 3 cr
- EL 207 Lab for EL 206 ................................................... 1.5 cr
Extended Program Sequence
Students who score poorly on the Math and/or English placement tests may need to take several developmental Math and/or English courses. If a student’s math placement test score falls below degree level, he or she may take longer than two years to complete the program due to required pre-requisites for Math, Physics and Electrical Engineering Technology courses.

Students who require developmental Math and/or English need to see an adviser to plan a proper course sequence.

Part-Time Students
Part-time students should consult with an academic adviser to plan their course of study. It is important that courses be taken in the proper order to assure all pre-requisites are completed for each successive semester.

Evening Students
Evening courses are scheduled sporadically depending on student demand, and it may not be possible to complete the degree solely in the evening. Contact the department for advisement before attempting to start the program.

Courses for non-EET Majors
The following courses are offered by the Electrical Engineering Technology department for the general student population or for students that may want to acquire specific skills.

EL 101 Residential Wiring ................................................................. 3 cr
EL 102 Introduction to Photovoltaic Systems .................................... 3 cr
NS 100 Introduction to Nanotechnology ........................................... 3 cr

CONTACT
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716–851–1506
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*The following course combinations meet the requirement of a technical elective with laboratory: EL206/207, EL 250/253, EL 258/259 and EL264/267.