

ELECTROMECHANICAL TECHNOLOGY

Associate in Applied Science • Certificate



The Associate in Applied Science in Electromechanical Technology prepares students for careers in electrical and electronic fields that require skilled technicians capable of dealing with rapid changes in technology. The Electromechanical Technology program is approved by the State of Maine Electrician's Examination Board to meet examination requirements.

Students study content in five major areas:

1. Electricity and Industrial Controls
2. Digital and Analog Electronics
3. Process Control and Measurement
4. Robotics and Automation
5. Telecommunications

Graduates may pursue careers as:

- **Electromechanical technicians**
- **Electrical/electronic technicians**
- **Electricians assistants**
- **Engineering assistants**
- **Instrument technicians**
- **Maintenance technicians**
- **Robotic technicians**
- **Computer technicians**

Graduates with an A.A.S. are allowed to sit for the Journeyman License Exam if they have completed National Electrical Code I (ELT-117). Please see the catalog for full requirements to sit for the Journeyman License Exam.

Degree Requirements

| Semester I | | Credit Hours |
|---------------------------------------|--|--------------|
| ELT 101 | Electricity I | 3 |
| ELT 123 | Electrical Controls I | 3 |
| ELT 153 | Digital Logic | 3 |
| MAT ___ * | Select <u>one</u> of the following: | 3 |
| | MAT 100 Intermediate Algebra | |
| | MAT 122 College Algebra | |
| ___ | Elective: Humanities or Social Science | 3 |
| Semester II | | |
| ELT 115 | Electricity II | 3 |
| ELT 145 | Electronic Devices I | 3 |
| ENG ___ * | Select <u>one</u> of the following: | 3 |
| | ENG 101 College Writing | |
| | ENG 105 College Writing Seminar | (4) |
| ELT 201 | Communication Electronics | 3 |
| MAT ___ | Elective: (MAT 105 or higher) | 3 |
| ___ | Elective: Humanities or Social Science | 3 |
| Semester III | | |
| ELT 221 | Industrial Controls | 3 |
| ELT 231 | Process Measurement | 3 |
| ELT 245 | Electronic Devices II | 3 |
| ELT 271 | Industrial Robotics | 3 |
| ___ | Elective: Mathematics or Science | 3-4 |
| Semester IV | | |
| ELT 222 | Programmable Controls | 3 |
| ELT 232 | Process Control | 3 |
| ELT 246 | Linear Integrated Electronics | 3 |
| ELT 276 | Automation Systems | 2 |
| ENG 201 | Technical Writing | 3 |
| ___ | Elective: Humanities/Social Science | 3 |
| Total Credit Hour Requirements | | 65-66 |

*Course placement determined by assessment test scores and/or prior college coursework

Certificate Requirements

| Semester I | | Credit Hours |
|---------------------------------------|---------------------------------------|--------------|
| MAT ___ * | Select <u>one</u> of the following: | 3 |
| | MAT 100 Intermediate Algebra | |
| | MAT 122 College Algebra | |
| BCA 120 | Introduction to Computer Applications | 3 |
| ELT 101 | Electricity I | 3 |
| ELT 123 | Electrical Controls I | 3 |
| ELT 153 | Digital Logic | 3 |
| Semester II | | |
| ENG ___ * | Select <u>one</u> of the following: | 3 |
| | ENG 101 College Writing | |
| | ENG 105 College Writing Seminar | (4) |
| ELT 115 | Electricity II | 3 |
| ELT 145 | Electronic Devices I | 3 |
| ELT 201 | Communication Electronics | 3 |
| Total Core Credit Requirements | | 27 |



Electromechanical Technology Degree Prerequisites/Requirements:
High school students must have completed Algebra I (Algebra II preferred) for admission to this program.

Office of Admissions

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