

(065) Associate in Applied Science

Graduates of the Electronic Engineering Technology (EET) program are prepared to enter the work force as engineering technicians, field service engineers, and application engineers or to move into supervisory positions. Graduates may continue their education at many colleges and universities and earn an advanced degree. The EET program provides students with the technical knowledge and skills to compete in the constantly changing field of electronics. Students receive both theory and "hands-on" training in the areas of communications, computers, consumer and industrial electronics, instrumentation and microprocessors. The program content is constantly updated so that students stay current and competitive in today's market place.

Work and Employment

Graduates of this program are prepared to work in research, electronic layout, instrumentation, design, field service, communications and service laboratories. Graduates may supervise technicians in the assembly, installation, repair, maintenance, calibration, and modification of electronic circuitry and systems.

Special Considerations

Workers usually have the following skills and aptitudes: the ability to do precise and detailed work, use good eye-hand coordination, notice and compare differences in objects, have mathematical and mechanical aptitudes, are analytic, curious and creative.

Program Contacts at Sauk Valley Community College

Counseling Office, 815/835-6354;

Jeffrey Johnson, Assistant Instructor of Electronics, 815/835-6282;

Steven McPherson, Assistant Professor of Electronics/Technology, 815/835-6347.

Major Field Requirements - Sem/Hrs: 41

- EET 107 - Introduction to DC and AC Circuits 4 Semester hour(s)
- EET 110 - Introduction to Digital Electronics 4 Semester hour(s)
- EET 207 - Advanced Circuits 3 Semester hour(s)
- EET 218 - Microprocessor Architecture and Applications 4 Semester hour(s)
- EET 245 - Programmable Controllers 3 Semester hour(s)
- EET 252 - Industrial Electronics 3 Semester hour(s)
- EET 256 - Technical Problems 3 Semester hour(s)
- EET 261 - Advanced Programmable Controllers 3 Semester hour(s)
- ELT 265 - Power Distribution 3 Semester hour(s)
- ENE 130 - Photovoltaics 3 Semester hour(s)
- IND 105 - Industrial Computers Applications 2 Semester hour(s) *
- IND 131 - OSHA Standards 1 Semester hour(s)
- IND 239 - Industrial Communications 3 Semester hour(s)
- IND 250 (2) - Industrial Internship 2 Semester hour(s)

Note:

* Students may choose CIS 109 in lieu of IND 105.

SVCC Requirement - Sem/Hrs: 1

- FYE 101 - First Year Experience 1 Semester hour(s)

General Education Requirements - Sem/Hrs: 23

- Communications (ENG 101, 111 required) 6 Semester hour(s)
- Social/Behavioral Science 3 Semester hour(s)
- Humanities/Fine Arts 3 Semester hour(s)
- Mathematics (MAT 121, 122 required) 7 Semester hour(s)
- Physical/Life Science (PHY 175 required) 4 Semester hour(s)

Total Hours Required for an A.A.S. Degree: 65

Suggested Program

First Semester - Sem/Hrs: 18

- EET 107 - Introduction to DC and AC Circuits 4 Semester hour(s)
- EET 110 - Introduction to Digital Electronics 4 Semester hour(s)
- ENG 101 - Composition I 3 Semester hour(s)
- FYE 101 - First Year Experience 1 Semester hour(s)
- IND 105 - Industrial Computers Applications 2 Semester hour(s)
- MAT 121 - College Algebra 4 Semester hour(s)

Second Semester - Sem/Hrs: 16

- Humanities/Fine Arts 3 Semester hour(s)
- Social/Behavioral Science 3 Semester hour(s)

- EET 111 - Active Discrete Devices 3 Semester hour(s)
- EET 201 - Introduction to Electronic Communications 4 Semester hour(s)
- EET 207 - Advanced Circuits 3 Semester hour(s)
- EET 245 - Programmable Controllers 3 Semester hour(s)
- IND 131 - OSHA Standards 1 Semester hour(s)
- MAT 122 - Trigonometry 3 Semester hour(s)

Third Semester - Sem/Hrs: 17

- EET 218 - Microprocessor Architecture and Applications 4 Semester hour(s)
- EET 252 - Industrial Electronics 3 Semester hour(s)
- EET 261 - Advanced Programmable Controllers 3 Semester hour(s)
- ELT 265 - Power Distribution 3 Semester hour(s)
- PHY 175 - Introduction to Physics 4 Semester hour(s)

Fourth Semester - Sem/Hrs: 14

- EET 202 - Advanced Electronic Communications 4 Semester hour(s)
- EET 256 - Technical Problems 3 Semester hour(s)
- ENE 130 - Photovoltaics 3 Semester hour(s)
- ENG 111 - Business and Technical Communication 3 Semester hour(s)
- IND 239 - Industrial Communications 3 Semester hour(s)
- IND 250 (2) - Industrial Internship 2 Semester hour(s)

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