

Robotic and Electronic Engineering Technology

Special Electronics Technician Emphasis

Associate of Applied Science (AAS) Degree

Technical Credits57

MnTC General Education Credits.....15

Total Credits72

Program Information

The Anoka Technical Electronic Engineering Technology (EET) program includes a 72-credit Special Electronics Technician Associate of Applied Science (AAS) degree emphasis program that prepares students in core electronic engineering technology skills, as well as a broad background in computer support and networking.

Program Learning Outcomes

1. Interpersonal and employability skills: Communicate with peers and customers using professional, ethical and appropriate verbal and nonverbal communication skills; by accepting constructive feedback and displaying appropriate behavior; participating as a member of a team, exhibiting leadership and lifelong learning skills.
2. Electronic Theory: Demonstrate a solid understanding of electronics; by interpreting electronic schematics and diagrams; research, organize and interpret information from various technical sources; identifying components; electronic test equipment used by technician in industry.
3. Mechatronic Systems: Convey the understanding of complex relationships between sections of specialized equipment through written, verbal, and/or demonstrative methods.
4. Troubleshooting: Demonstrate principles of troubleshooting and logical diagnosis by using critical thinking skills to define, analyze, and implement a solution.
5. Mechatronic Applications: Evaluate and determine that all mechatronic equipment is in proper working condition, ensuring a safe, reliable manufacturing environment.
6. Safety Compliance: Participate in class in a professional manner, by acting in compliance with documented safety procedures and appropriate industry standards.

Career Opportunities

As part of the Electronic Engineering Technology (EET) program, the Special Electronics Technician (EET) emphasis Associate of Applied Science (AAS) degree provides students with the technical knowledge and practical experience necessary for an exciting career in electronics, mechatronics, robotics, automation and controls, computer servicing/networking, biomedical equipment technician (BMET) and engineering support.

Wage information is available from the [Minnesota Department of Employment and Economic Development](#)

Admission Requirements

This program requires instructor approval.

Program Start Dates

Fall Semester.....August

Spring SemesterJanuary**

**Students who start in the spring will need more time to complete this program.

Limited first semester technical courses are offered in the Spring semester.

Course Prerequisites

Some courses in this program may require a prerequisite. Please see [course descriptions](#) for more details.

MnTC General Education Requirements

This program requires completion of the following fifteen credits of general education from at least three goal areas of the Minnesota Transfer Curriculum (MnTC). Refer to the [MnTC course list](#) for elective courses:

- MATH 1550 Introduction to Statistics (Goal 4)..... 4
- MnTC Electives..... 11

Program Sequence

Fall Semester 16

- ETEC 1102 Mechatronics 1 DC..... 3
- ETEC 1113 Mechatronics 2 AC..... 3
- ETEC 1141 Circuit Analysis 1 4
- ETEC 1151 Computer Troubleshooting A+ 3
- ETEC 1250 Digital 1 3

Spring Semester..... 16

- BMET 1301 Biomedical Networking..... 2
- ETEC 1170 Programmable Logic Controllers (PLCs)..... 2
- ETEC 1202 Solid State Electronic Devices..... 5
- ETEC 1260 Lasers and Optics..... 2
- ETEC 1271 Technical Documentation 3
- ETEC 1281 Engineering Technology Programming:
LabVIEW and C++ 2

Summer Semester 7

- MATH 1550 Introduction to Statistics 4
- MnTC Elective 3

Special Electronics Technician Electives..... 25

- MnTC Elective 8

Graduation Requirements

Students must earn a cumulative 2.0 GPA or higher to be eligible for graduation from this program.

Faculty Contact

[Tom Reid](#)..... 763-576-4139

[Daniel Truchon](#)..... 763-576-4185

For information on how to apply or schedule a tour, contact Enrollment Services at 763-576-7710 or EnrollmentServices@anokatech.edu

Also see: Biomedical Equipment Technician AAS, Robotic and Electronic Engineering Technology AAS and Electronic Technology diploma



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