

Program Information

The Anoka Technical College Electronic Engineering Technology (EET) program offers a 72-credit Electronic Engineering Technology Associate of Applied Science (AAS) degree that prepares students to work with mechatronics, robotics, automation and controls, computer servicing/networking, biomedical equipment.

Students gain a thorough understanding of how computers and machines communicate as well as system level troubleshooting, and a solid education in electronic engineering technology fundamentals.

Students will also learn about:

- Mechatronics
- Lasers and Optics
- Robotics
- Computer Troubleshooting A+
- Networking
- Programmable Logic Controllers (PLCs)
- LabVIEW programming applications
- Motor Control
- Microcontrollers
- Advanced Troubleshooting
- Project Management
- Interpersonal Skills, such as customer service and teamwork

Designed by electronic engineering industry leaders, the program provides a comprehensive, hands-on, career-oriented curriculum. Students will obtain a solid education in electronic engineering fundamentals, mechatronics, robotics, automation and controls, computer servicing/networking, Biomedical Equipment Technician (BMET). Full time students can obtain an Electronic Technician diploma in two semesters, and an associate applied science degree in four semesters. Financial assistance is available for those who qualify and there are several EET program-specific scholarships available.

Prerequisites

Program requirements:

- Must have a 62 or higher on Reading Comprehension and Arithmetic Accuplacer placement test or appropriate test scores.

Some courses may require appropriate test score or completion of basic math, basic English and/or reading courses with a “C” or better.

Graduation Requirements

All Anoka Technical College students seeking an Associate of Applied Science (AAS) degree, diploma or certification must meet the grade-point average (GPA) of 2.0 or higher. Please contact your advisor for any further program graduation requirements.

Transfer Opportunities

For students who want to continue their education and obtain their four-year degree, the Electronic Engineering Technology (EET) program, has articulation agreements with Minnesota State University (Mankato), Minnesota State University (Moorhead), Bemidji State

University, and University of Minnesota Crookston. Students can complete most of these four-year degrees through online courses.

To see how credits from this program may transfer into other Anoka Technical College programs or into a program at another college, visit:

- [Minnesota Transfer](http://www.mntransfer.org/students/plan/s_agreements.php?numResults=25&archive=false&from_inst=70&from_prog=&to_inst=&Search=Search): (www.mntransfer.org/students/plan/s_agreements.php?numResults=25&archive=false&from_inst=70&from_prog=&to_inst=&Search=Search)
- [Anoka Technical College transfer student](http://www.anokatech.edu/BecomeStudent/Transfers.aspx) (www.anokatech.edu/BecomeStudent/Transfers.aspx)

Industry Information

As part of the Electronic Engineering Technology (EET) program, Electronic Engineering Technology (EET) 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.

Wages/Outlook/Advancement

Wage information is available from the [Minnesota Department of Employment and Economic Development](http://mn.gov/deed/job-seekers/job-outlook/index.jsp) (http://mn.gov/deed/job-seekers/job-outlook/index.jsp).

Technical Education: 57 Credits

<input type="checkbox"/>	BMET 1301	Biomedical Networking	2
<input type="checkbox"/>	ETEC 1102	Mechatronics 1 DC	3
<input type="checkbox"/>	ETEC 1113	Mechatronics 2 AC	3
<input type="checkbox"/>	ETEC 1130	Introduction to Electronic Engineering Technology.....	2
<input type="checkbox"/>	ETEC 1140	Circuit Analysis	2
<input type="checkbox"/>	ETEC 1151	Computer Troubleshooting A+	3
<input type="checkbox"/>	ETEC 1170	Programmable Logic Controllers (PLCs).....	2
<input type="checkbox"/>	ETEC 1202	Solid State Electronics	5
<input type="checkbox"/>	ETEC 1250	Digital 1	3
<input type="checkbox"/>	ETEC 1260	Lasers and Optics	2
<input type="checkbox"/>	ETEC 1271	Technical Documentation	3
<input type="checkbox"/>	ETEC 1281	Engineering Technology Programming: LabVIEW and C++	2
	Technical Core Subtotal		32
<input type="checkbox"/>	ETEC 2011	Machine-to-Machine Wireless Communications	2
<input type="checkbox"/>	ETEC 2138	LabVIEW and Data Acquisition	4
<input type="checkbox"/>	ETEC 2143	Advanced Programmable Logic Controllers (PLCs).....	3
<input type="checkbox"/>	ETEC 2162	Robotics and Automation Controls.....	5
<input type="checkbox"/>	ETEC 2172	Mechatronics Capstone Project	5
<input type="checkbox"/>	ETEC 2177	Mechatronics Capstone Design and Documentation	2
<input type="checkbox"/>	ETEC 2276	Industrial Networking IOT/M2M	4

(continued)

2017-2018

Electronic Engineering Technology

Associate of Applied Science (AAS) Degree

General Education/MnTC Requirements: 15 Credits

Fifteen (15) general education credits of Minnesota Transfer Curriculum (MnTC) are required. Student is required to take:

- MATH 1550 Introduction to Statistics 4
- General Education/MnTC Courses..... 11

Also see: Biomedical Equipment Technician AAS and Electronic Technology diploma

Start Dates

Fall Semester.....August

Faculty Contact

[Tom Reid](#)..... 763-576-4139
[Daniel Truchon](#)..... 763-576-4185

For information on how to apply, to schedule a tour, or for service during summer hours, contact Enrollment Services at 763-576-7710 or

EnrollmentServices@anokatech.edu

Sample Program Sequence

Full Time

	Fall Semester	Spring Semester	Summer Semester
1 st YEAR	ETEC 1130..... 2	ETEC 1113..... 3	MATH 1550..... 4
	ETEC 1102..... 3	ETEC 1202..... 5	Gen Ed/MnTC..... 3
	ETEC 1140..... 2	ETEC 1170..... 2	TOTAL..... 7
	ETEC 1151..... 3	BMET 1301..... 2	
	ETEC 1271..... 3	ETEC 1260..... 2	
	ETEC 1250..... 3	ETEC 1281..... 2	
	TOTAL..... 16	TOTAL..... 16	
2 nd YEAR	Fall Semester	Spring Semester	
	ETEC 2138..... 4	ETEC 2011..... 2	
	ETEC 2162..... 5	ETEC 2172..... 5	
	ETEC 2143..... 3	ETEC 2177..... 2	
	ETEC 2276..... 4	Gen Ed/MnTC..... 8	
	TOTAL..... 16	TOTAL..... 17	

