2019-2020

Electronic Technology

Diploma

Total Technical Credits.....32

Program Information

The Anoka Technical Electronic Engineering Technology (EET) program includes a 32-credit Electronic Technology diploma that provides students with the technical knowledge necessary to start a career in electronics.

Full-time students may complete an Electronic Technology diploma in two semesters. Full-time students who continue in the program can obtain an AAS degree in Electronic Engineering Technology (EET) with an additional two semesters.

Students will obtain a solid education in electronic fundamentals, as well as system-level troubleshooting.

Students also learn about:

- Computer Troubleshooting A+
- LabVIEW programming applications
- Lasers and Optics
- Mechatronics
- Networking
- Programmable Logic Controllers (PLCs)
- Robotics

Financial assistance is available for those who qualify and there are several EET program-specific scholarships available.

Program Learning Outcomes

By completing this program, students will achieve the following 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.

Course Prerequisites

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 in Applied Science (AAS), diploma, or certificate must meet the cumulative grade point average (GPA) of 2.0 or higher.

Transfer Opportunities

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: (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 (www.anokatech.edu/BecomeStudent/Transfers.aspx)

Industry Information

As part of the Electronic Engineering Technology program, the Electronic Technology diploma provides students with the technical knowledge necessary to start their career in electronics and manufacturing support.

Wages/Outlook/Advancement

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

Gainful Employment

Follow this link for a Gainful Employment Report.

Technical Education: 32 Credits

☐ BMET 1301	Biomedical Networking	2
☐ ETEC 1102	Mechatronics 1 DC	3
☐ ETEC 1113	Mechatronics 2 AC	3
☐ ETEC 1141	Circuit Analysis	4
☐ ETEC 1151	Computer Troubleshooting A+	3
☐ ETEC 1170	Programmable Logic Controllers (PLCs)	2
☐ ETEC 1202	Solid State Electronics	5
☐ ETEC 1250	Digital 1	3
☐ ETEC 1260	Lasers and Optics	2
☐ ETEC 1271	Technical Documentation	3
☐ ETEC 1281	Engineering Technology Programming: LabVIEW and C++	2

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

Start Dates

Fall Semester.....August
*Spring Semester .....January

ANOKA TECHNICAL COLLEGE
A member of Minnesota State

2019-2020

Electronic Technology

Diploma

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

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Sample Program Sequence

Full Time

	Fall Semester		Spring Semester	
1st YEAR	ETEC 1102	3	BMET 1301	2
	ETEC 1113	3	ETEC 1170	2
	ETEC 1141	4	ETEC 1202	5
	ETEC 1151	3	ETEC 1260	2
	ETEC 1250	3	ETEC 1271	3
			ETEC 1281	2
	TOTAL	16	TOTAL	16

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.