

ELECTRONICS ENGINEERING TECHNOLOGY (AS DEGREE S0681)

Technology and Health Division

This A.S. Degree in Electronics Engineering Technology combines core courses in Electronics Technology plus additional math and science support courses. This degree is ideal for students who want the flexibility of receiving a skills based vocational degree that can immediately be applied to the job market, or for transfer towards a 4 year degree in Electronics Engineering Technology or Electronic Systems Engineering Technology at a four year university. This degree aims at maximizing the number of courses that meet the lower division requirements of the four year programs at local universities. Topics in core courses focus on direct and alternating current, electronic devices, digital and industrial electronics, as well as the electronic assembly and fabrication.

Students completing this degree will be prepared with the necessary knowledge to make them versatile employees. Typical technician-level job classifications include electronics technician, electronics drafter, calibration technologist, field service technician, field engineer, customer service technician, and maintenance technician.

Required Courses

Course Prefix	Course Name	Units
ELEC 50A	Electronic Circuits - Direct Current (DC)	4
ELEC 50B	Electronic Circuits (AC)	4
ELEC 51	Semiconductor Devices and Circuits	4
ELEC 54B	Industrial Electronic Systems	3
ELEC 56	Digital Electronics	4
ELEC 61	Electronic Assembly and Fabrication	3
CISP 31	Programming in C++	3
CISP 31L	Programming in C++ Laboratory	0.5
MATH 150	Trigonometry	3
PHYS 2AG	General Physics	4
PHYS 2BG	General Physics	4
Total Units		36.5

Looking for guidance? A counselor can help. This Guided Pathways for Success (GPS) is a suggested sequence of coursework needed for program completion. It is not an official educational plan. Schedule an appointment (<https://esars2012.mtsac.edu/appointments/counseling/eSARS.asp?WCI=Init&WCE=Settings>) with a counselor or advisor as soon as possible to create an individualized Mountie Academic Plan (MAP) specific to your goals and needs.

Course	Title	Units
Fall Term 1		
ELEC 50A	Electronic Circuits - Direct Current (DC)	4
ELEC 50B	Electronic Circuits (AC)	4
AA/S KINES	Phys Ed (KIN) Activity Course	3
MATH 150	Trigonometry	3

ELEC 50A (part 1) taken week 1-8 of semester	8	
ELEC 50B (par 2) taken week 9-16 of semester	6	
Units		14
Winter Term 1		
ENGL 1A	Freshman Composition	4
Units		4
Spring Term 1		
ELEC 56	Digital Electronics	4
PHYS 2AG	General Physics	4
SPCH 1A	Public Speaking	4
Completed Electronics Technology, L1 certificate		
Submit certificate to AR via portal #45		
Units		12
Summer Term 1		
A/AS AMIST		3
AA/S BEHAV	Area D-2 Elective Course	3
Units		3
Fall Term 2		
ELEC 51	Semiconductor Devices and Circuits	4
ELEC 61	Electronic Assembly and Fabrication	3
PHYS 2BG	General Physics	4
Units		11
Winter Term 2		
A/AS SELF		3
Units		0
Spring Term 2		
ELEC 54B	Industrial Electronic Systems	3
AA/S HUM	Area C-2 Humanities Course	3-4
AA/S ARTS	Area C-1 Arts Course	3
Electronics Engineering Technology, AS S0681		
Electronics Technology, Level 2 Certificate		
Submit petitions via portal #45		
Units		9-10
Total Units		53-54