

ENGINEERING TECHNOLOGY (ELECTRONICS) - ASSOCIATE OF APPLIED SCIENCE

NMSU Alamogordo 2023-2024 Catalog

A grade of C- or better is required in all courses.

Total Credits Required for Degree: 60

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education Requirements		
Select one course from four of the following six content areas for a total of 12-14 credits. ^{1,2}		12-14
This degree requires courses from Areas I, II, III, and IV, students do not need to take any additional courses.		
Area I: Communications		
ENGL 1110G	Composition I	
Area II: Mathematics		
MATH 1220G	College Algebra ³	
Area III: Laboratory Science ⁴		
Select one from the following:		
ASTR 1115G	Introduction to Astronomy Lecture & Laboratory	
ASTR 1120G	The Planets Lecture & Laboratory	
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
GEOL 1110G	Physical Geology	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
Area IV: Social/Behavioral Sciences		
SOCI 1110G	Introduction to Sociology	
or PSYC 1110G	Introduction to Psychology	
General Education Elective		
COMM 1115G	Introduction to Communication	3
Program Requirements		
ET 104	Soldering Techniques	1
ET 120	Computation Software	3
ET 153	Fundamentals of Networking Communications	3
ET 182	Introduction to Digital Logic	2
ET 183	Applied DC Circuits	3
ET 184	Applied AC Circuits	3
ET 246	Electronic Devices I	4
ET 273	Advanced Networking Communications	4
ET 283	Hardware PC Maintenance	3
ELT 103	Math Study Skills for Electronics ⁵	2
Electronics Concentration Courses		
ET 220	Internship	1
ET 253	Networking Operating Systems II	3

ET 276	Electronic Communications	3
ET 282	Digital Electronics	4
ELT 205	Semiconductor Devices	4
Total Credits		60

¹ Each course selected must be from a different area and students cannot take multiple courses in the same area.

² See the General Education Section (<http://catalogs.nmsu.edu/alamogordo/general-information/general-education-new-mexico-common-core/>) of the catalog for a full list of courses.

³ MATH 1220G College Algebra is required for the degree but students may need to take prerequisites to enter the course.

⁴ Check with ET faculty advisor for recommended science course.

⁵ Taken twice for a total of 2 cr. ELT 103 Math Study Skills for Electronics is mandatory to be taken along with ET 183 Applied DC Circuits and ET 184 Applied AC Circuits.

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A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

A grade of C- or better is required in all courses.

First Year		Credits
Fall		
ET 120	Computation Software	3
ET 153	Fundamentals of Networking Communications	3
ET 183	Applied DC Circuits	3
ELT 103	Math Study Skills for Electronics	1
MATH 1220G	College Algebra	3
Credits		13
Spring		
COMM 1115G	Introduction to Communication	3
ET 104	Soldering Techniques	1
ET 182	Introduction to Digital Logic	2
ET 184	Applied AC Circuits	3
ELT 103	Math Study Skills for Electronics	1
ENGL 1110G	Composition I	4
Credits		14
Second Year		
Fall		
ET 220	Internship	1
ET 246	Electronic Devices I	4
ET 253	Networking Operating Systems II	3
ET 273	Advanced Networking Communications	4
ET 282	Digital Electronics	4
Credits		16
Spring		
ET 276	Electronic Communications	3
ET 283	Hardware PC Maintenance	3
ELT 205	Semiconductor Devices	4
SOCI 1110G	Introduction to Sociology	3
or PSYC 1110G	or Introduction to Psychology	
Select one from the following: ¹		4

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ASTR 1115G	Introduction to Astronomy Lecture & Laboratory	
ASTR 1120G	The Planets Lecture & Laboratory	
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
GEOL 1110G	Physical Geology	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
	Credits	17
	Total Credits	60

¹ Check with ET faculty advisor for recommended science course.