ELECTRICAL ENGINEERING TECHNOLOGY - BACHELOR OF SCIENCE IN ENGINEERING TECHNOLOGY

A Suggested Plan of Study for Students

This roadmap assumes student placement in MATH 1511G Calculus and Analytic Geometry I and ENGL 1110G Composition I. The contents and order of this roadmap may vary depending on initial student placement in mathematics and English. It is only a suggested plan of study for students and is not intended as a contract. Course availability may vary from fall to spring semester and may be subject to modification or change.

First Year		
Fall		**Credits**
COMM 1115G or HNRS 2175G	Introduction to Communication [2] or Introduction to Communication Honors	3
E T 101	Introduction to Engineering Technology	1
ENGL 1110G or ENGL 1110H	Composition I or Composition I Honors	4
ENGR 120	DC Circuit Analysis	4
ENGR 190	Introduction to Engineering Mathematics	4
	Credits	**16**
Spring		
ENGR 130	Digital Logic	4
ENGR 140	Introduction to Programming and Embedded Systems	4
ENGL 2210G or ENGL 2210H	Professional and Technical Communication or Professional and Technical Communication	3
MATH 1511G or MATH 1511H	Calculus and Analytic Geometry I [1] or Calculus and Analytic Geometry I Honors	4
	Credits	**15**
Second Year		
Fall		
E T 246	Electronic Devices I	4
ENGR 230	AC Circuit Analysis	4
MATH 1521G or MATH 1521H	Calculus and Analytic Geometry II [1] or Calculus and Analytic Geometry II Honors	4
Physics I with Lab (Area III: Lab Sciences, Choose one) [3]		4
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab [3]	
PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab [3]	
	Credits	**16**
Spring		
Area IV: Social Behavior Sciences [2]		3
E T 272	Electronic Devices II	4
E T 398	Digital Systems	4
Physics II with Lab (Area III: Lab Sciences, from the chosen sequence) [3]		4
PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab [3]	
PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab [3]	
	Credits	**15**
Third Year		
Fall		
Area V: Humanities [2]		3
E T 324	Signal Processing and Filtering	4
E T 377	Computer Networking I	3
E T 381	Renewable Energy Technologies	3
Technical Elective Course (from pre-approved list) [4]		3
	Credits	**16**
Spring		
A ST 311	Statistical Applications	3
E T 344	Microprocessor Systems	3
E T 356	Applied Power Technologies I	4
Technical Elective Course (from pre-approved list) [4]		3
Viewing a Wider World [2, 4]		3
	Credits	**16**
Fourth Year		
Fall		
Area VI: Creative and Fine Arts [2]		3
Viewing a Wider World [2, 4]		3
E T 402	Introduction to Automated Control Systems	3
E T 456	Applied Power Technologies II	3
ENGR 401	Engineering Capstone I	3
	Credits	**15**
Spring		
E T 414	Communications Systems	3
ENGR 402	Engineering Capstone II	3
Technical Elective Course (from pre-approved list) [4]		3
E T 452	Advanced Automated Control Systems	3
	Credits	**12**
	Total Credits	**121**

1. Students may need to take any prerequisites needed before enrolling inMATH 1511G Calculus and Analytic Geometry I and MATH 1521G Calculus and Analytic Geometry II. These courses satisfy both the Area II and General Education Elective requirements.
2. See the General Education (https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/#associatesbachelorsgetext) section of the catalog for a full list of courses. See the Viewing a Wider World (https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/#viewingawiderworldtext) section of the catalog for a full list of courses, rules, and alternative options.
3. Students must select one of the two PHYS course sequences, from the following, in order to meet the 8 credits of the Area III: Laboratory Sciences requirement.

   Algebra-Based Sequence
   - PHYS 1230G Algebra-Based Physics I/PHYS 1230L Algebra-Based Physics I Lab
   - PHYS 1240G Algebra-Based Physics II/PHYS 1240L Algebra-Based Physics II Lab

   Calculus-Based Sequence
   - PHYS 1310G Calculus -Based Physics I/PHYS 1310L Calculus -Based Physics I Lab
   - PHYS 1320G Calculus -Based Physics II/PHYS 1320L Calculus -Based Physics II Lab

[4] Electives offer students the flexibility to explore specialized interests within or beyond their major. By selecting electives strategically, students may also be able to complete a minor with little or no additional coursework beyond degree requirements.