CIVIL 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
ENGL 1110G	Composition I	4
ET 101	Introduction to Engineering Technology and Geomatics	1
ET154	Construction Methods and Communications	3
ENGR 120	DC Circuit Analysis	4
ENGR 190	Introduction to Engineering Mathematics	4
	Credits	16
Spring		
ET109	Computer Drafting Fundamentals	3
MATH 1435 or MATH 1511G	Applications of Calculus I ¹ or Calculus and Analytic Geometry I	3-4
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	4
Area III: Lab Sciences	(Choose one)	4
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
PHYS 1310G	Calculus -Based Physics I	
& PHYS 1310L	and Calculus -Based Physics I Lab	
	Credits	14-15
Second Year		
Fall		
COMM 1115G	Introduction to Communication	3
ET 143	Civil Drafting Fundamentals	3
ENGL 2210G	Professional and Technical Communication Honors	3
ENGR 233	Engineering Mechanics I	3
MATH 1440 or MATH 1521G	Applications of Calculus II ¹ or Calculus and Analytic Geometry II	3
	Credits	15
Spring		
Area IV: Social Behavior Sciences ²		3
ET 254	Concrete Technology	3
ET 308	Fluid Technology	3
ET 308 L	Fluid Technology Lab	1
ENGR 234	Engineering Mechanics II	3
SUR 222	Introduction to Geomatics	3
	Credits	16

Third Year

Fall

	Total Credits	123-124
	Credits	16
Viewing a Wider World ³		
Technical Elective Course (from pre-approved list) ⁵		3
ET 421	Senior Project	3
ET 418	Applied Hydraulics	3
ET 412	Highway Technology	3
ET 410	Senior Seminar	1
Spring	orcano	10
. conodi Elective Ood	Credits	16
	rse (from pre-approved list) ⁵	3
LE 451	Engineering Economy	3
ET 459	Construction Technology and Management	3
ET 432	Applied Design of Structures II	4
Fall A ST 311	Statistical Applications	3
Fourth Year		
	Credits	16
Technical Elective Course (from pre-approved list) ⁵		
, ,	rse (from pre-approved list) ⁴	3
ET 355	Site/Land Development and Layout	3
ET 332	Applied Design of Structures I	4
Area VI: Creative and Fine Arts ²		
Spring		
	Credits	14
Viewing a Wider World ³		
E T 354	Soil and Foundation Technology	4
ET 310 L	Applied Strength of Materials Lab	1
ET 310	Applied Strength of Materials	3
Area V: Humanities ²		3
Fall		

- Students may need to take any prerequisites needed to enter MATH 1511G Calculus and Analytic Geometry I/MATH 1435 Applications of Calculus I or MATH 1521G Calculus and Analytic Geometry II/MATH 1440 Applications of Calculus II before enrolling in either option of coursework.
- *For students wishing to pursue a technical master's degree, MATH 1511G Calculus and Analytic Geometry I and MATH 1521G Calculus and Analytic Geometry II are recommended and will satisfy both the Area II and General Education Elective requirements. Students who take MATH 1435 Applications of Calculus I and MATH 1440 Applications of Calculus II, will need to have an exception made for their degree audit.
- ² See the General Education (https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/) section of this 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 this catalog for a full list of courses
- Surveying Electives: SUR 328 Construction Surveying & Automation Technologies, SUR 351 Spatial Data Adjustment I, or SUR 361 Geodesy/Geodetic Control Surveying
- Technical Elective Courses: E T 381 Renewable Energy Technologies, E T 382 Solar Energy Technologies, E T 384 Wind and Water Energy Technologies, E T 386 Sustainable Construction and Green Building Design, E T 472 Intelligent Transportation Systems (ITS), E T 480

2 Civil Engineering Technology - Bachelor of Science in Engineering Technology

Innovation and Product Development, and any SUR 300+ (in addition to the required Surveying Elective).