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 or ENGL 1110H	Composition I or Composition I Honors	4
E T 101	Introduction to Engineering Technology	1
E T 154	Construction Methods and Communications	3
ENGR 120 or PHYS 1240G or PHYS 1320G	DC Circuit Analysis or Algebra-Based Physics II or Calculus -Based Physics II	3-4
ENGR 190	Introduction to Engineering Mathematics	4
	Credits	**15-16**
Spring		
E T 109	Computer Drafting Fundamentals	3
CHEM 1120G or GEOL 1110G	Introduction to Chemistry Lecture and Laboratory (non majors) or Physical Geology	4
MATH 1511G or MATH 1511H	Calculus and Analytic Geometry I [1] or Calculus and Analytic Geometry I Honors	4
Area III: Lab Sciences (Choose one)		4
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab	
	Credits	**15**
Second Year		
Fall		
COMM 1115G or HNRS 2175G	Introduction to Communication or Introduction to Communication Honors	3
E T 143	Civil/Survey Drafting I	3
ENGL 2210G or ENGL 2210H	Professional and Technical Communication or Professional and Technical Communication	3
ENGR 233	Engineering Mechanics I	3
MATH 1521G or MATH 1521H	Calculus and Analytic Geometry II [1] or Calculus and Analytic Geometry II Honors	4
	Credits	**16**
Spring		
Area IV: Social Behavior Sciences [2]		3
E T 254	Concrete Technology	3
E T 308	Fluid Technology	3
E T 308 L	Fluid Technology Lab	1
ENGR 234	Engineering Mechanics II	3
SUR 222	Introduction to Geomatics	3
	Credits	**16**
Third Year		
Fall		
Area V: Humanities [2]		3
E T 310	Applied Strength of Materials	3
E T 310 L	Applied Strength of Materials Lab	1
E T 354	Soil and Foundation Technology	4
Viewing a Wider World [3]		3
	Credits	**14**
Spring		
Area VI: Creative and Fine Arts [2]		3
E T 332	Applied Design of Structures I	4
E T 355	Site/Land Development and Layout	3
Surveying Elective Course (from pre-approved list) [4]		3
Technical Elective Course (from pre-approved list) [5]		3
	Credits	**16**
Fourth Year		
Fall		
A ST 311 or MATH 1350G	Statistical Applications or Introduction to Statistics	3
E T 432	Applied Design of Structures II	4
E T 459	Construction Technology and Management	3
I E 451	Engineering Economy	3
Technical Elective Course (from pre-approved list) [5]		3
	Credits	**16**
Spring		
E T 410	Senior Seminar	1
E T 412	Highway Technology	3
E T 418	Applied Hydraulics	3
E T 421	Senior Project	3
Viewing a Wider World [3]		3
	Credits	**13**
	Total Credits	**121-122**

1. Students may need to take any prerequisites needed before enrolling in MATH 1511G Calculus and Analytic Geometry I or 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/) section of this catalog for a full list of courses
3. 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
4. **Surveying Electives:** SUR 328 Construction Surveying & Automation Technologies, SUR 351 Spatial Data Adjustment I, or SUR 361 Geodesy/Geodetic Control Surveying
5. **Technical Elective Courses:** Select from the list or any SUR 300+ (in addition to the required Surveying Elective), ENGR 400 Special Topics that are related to the field, and E T 420 Engineering Internship, subject to faculty advisor pre-approval.