

# CIVIL ENGINEERING TECHNOLOGY (RENEWABLE ENERGY TECHNOLOGIES) - 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		
<b>Fall</b>		
ENGL 1110G or ENGL 1110H	Composition I or Composition I Honors	4
ET 101	Introduction to Engineering Technology	1
ET 154	Construction Methods and Communications	3
ENGR 120 or PHYS 1240G or PHYS 1320G	DC Circuit Analysis <sup>5</sup> or Algebra-Based Physics II or Calculus -Based Physics II	3-4
ENGR 190	Introduction to Engineering Mathematics	4
<b>Credits</b>		<b>15-16</b>
<b>Spring</b>		
ET 109	Computer Drafting Fundamentals	3
MATH 1511G or MATH 1511H	Calculus and Analytic Geometry I <sup>1</sup> or Calculus and Analytic Geometry I Honors	4
CHEM 1120G or GEOL 1110G	Introduction to Chemistry Lecture and Laboratory (non majors) or Physical Geology	4
PHYS 1230G & PHYS 1230L or PHYS 1310G and PHYS 1310L	Algebra-Based Physics I or Calculus -Based Physics I and Calculus - Based Physics I Lab	4
<b>Credits</b>		<b>15</b>
<b>Second Year</b>		
<b>Fall</b>		
ET 143	Civil/Survey Drafting I	3
ENGR 233	Engineering Mechanics I	3
ENGL 2210G or ENGL 2210H	Professional and Technical Communication or Professional and Technical Communication	3
MATH 1521G or MATH 1521H	Calculus and Analytic Geometry II <sup>1</sup> or Calculus and Analytic Geometry II Honors	4
COMM 1115G or HNRS 2175G	Introduction to Communication or Introduction to Communication Honors	3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
ET 254	Concrete Technology	3
ET 308	Fluid Technology	3
ET 308 L	Fluid Technology Lab	1
SUR 222	Introduction to Geomatics	3

ENGR 234	Engineering Mechanics II	3
Area IV: Social Behavior Sciences <sup>2</sup>		3
<b>Credits</b>		<b>16</b>
<b>Third Year</b>		
<b>Fall</b>		
ET 310	Applied Strength of Materials	3
ET 310 L	Applied Strength of Materials Lab	1
ET 354	Soil and Foundation Technology	4
Viewing a Wider World <sup>3</sup>		3
Area V: Humanities <sup>2</sup>		3
<b>Credits</b>		<b>14</b>
<b>Spring</b>		
ET 332	Applied Design of Structures I	4
ET 355	Site/Land Development and Layout	3
ET 382	Solar Energy Technologies <sup>4</sup>	3
SUR 328 & 328L	Construction Surveying & Automation Technologies and Construction Surveying & Automation Technologies Lab <sup>4</sup>	3
Area VI: Creative and Fine Arts <sup>2</sup>		3
<b>Credits</b>		<b>16</b>
<b>Fourth Year</b>		
<b>Fall</b>		
ET 432	Applied Design of Structures II	4
ET 381	Renewable Energy Technologies <sup>4</sup>	3
ET 384	Wind and Water Energy Technologies <sup>4</sup>	3
ET 459	Construction Technology and Management	3
IE 451	Engineering Economy	3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
A ST 311 or MATH 1350G	Statistical Applications or Introduction to Statistics	3
ET 410	Senior Seminar	1
ET 412	Highway Technology	3
ET 418	Applied Hydraulics	3
ET 421	Senior Project	3
Viewing a Wider World <sup>3</sup>		3
<b>Credits</b>		<b>16</b>
<b>Total Credits</b>		<b>124-125</b>

- <sup>1</sup> 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.
- <sup>2</sup> See the General Education (<https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/>) section of this catalog for a full list of courses
- <sup>3</sup> 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.
- <sup>4</sup> Concentration-specific coursework. These twelve credits add three credits to the No-Concentration CET program option.
- <sup>5</sup> The ENGR 120 DC Circuit Analysis requirement can be met by taking three credits of Physics II, such as PHYS 1240G Algebra-Based Physics II, or PHYS 1320G Calculus -Based Physics II