

# CIVIL ENGINEERING TECHNOLOGY (TRANSPORTATION 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		Credits
<b>Fall</b>		
ENGL 1110G	Composition I	4
E T 101	Introduction to Engineering Technology and Geomatics	1
E T 154	Construction Methods and Communications	3
ENGR 120	DC Circuit Analysis	4
ENGR 190	Introduction to Engineering Mathematics	4
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
E T 109	Computer Drafting Fundamentals	3
MATH 1511G or MATH 1435	Calculus and Analytic Geometry I <sup>1</sup> or Applications of Calculus I	3-4
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	4
Physics I with Lab (Area III: Lab Sciences, Choose one) <sup>3</sup>		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	
<b>Credits</b>		<b>14-15</b>
<b>Second Year</b>		
<b>Fall</b>		
E T 143	Civil Drafting Fundamentals	3
MATH 1440 or MATH 1521G	Applications of Calculus II <sup>1</sup> or Calculus and Analytic Geometry II	3-4
ENGR 233	Engineering Mechanics I	3
ENGL 2210G	Professional and Technical Communication Honors	3
COMM 1115G	Introduction to Communication	3
<b>Credits</b>		<b>15-16</b>
<b>Spring</b>		
E T 254	Concrete Technology	3
E T 308	Fluid Technology	3
E T 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>		
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 <sup>3</sup>		3
Area V: Humanities <sup>2</sup>		3
<b>Credits</b>		<b>14</b>
<b>Spring</b>		
E T 332	Applied Design of Structures I	4
E T 355	Site/Land Development and Layout	3
SUR 328	Construction Surveying & Automation Technologies	3
E T 472	Intelligent Transportation Systems (ITS)	3
Area VI: Creative and Fine Arts <sup>2</sup>		3
<b>Credits</b>		<b>16</b>
<b>Fourth Year</b>		
<b>Fall</b>		
A ST 311	Statistical Applications	3
I E 451	Engineering Economy	3
E T 432	Applied Design of Structures II	4
E T 455	Cost Estimating and Scheduling	3
E T 459	Construction Technology and Management	3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
E T 410	Senior Seminar	1
E T 412	Highway Technology	3
E T 418	Applied Hydraulics	3
E T 421	Senior Project	3
C E 479	Pavement Analysis and Design	3
Viewing a Wider World <sup>3</sup>		3
<b>Credits</b>		<b>16</b>
<b>Total Credits</b>		<b>123-125</b>

<sup>1</sup> 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.

<sup>2</sup> 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.

<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