

CIVIL ENGINEERING TECHNOLOGY (TRANSPORTATION TECHNOLOGY) - BACHELOR OF SCIENCE IN ENGINEERING TECHNOLOGY

Students must complete all University degree requirements, which include: General Education requirements, Viewing a Wider World requirements, and elective credits to total at least 120 credits with 48 credits in courses numbered 300 or above. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education		
<i>Area I: Communications</i>		
<i>English Composition - Level 1</i>		
ENGL 1110G	Composition I	4
or ENGL 1110H	Composition I Honors	
<i>English Composition - Level 2</i>		
ENGL 2210G	Professional and Technical Communication (Recommended)	3
or ENGL 2210H	Professional and Technical Communication	
<i>Oral Communication</i>		
COMM 1115G	Introduction to Communication (Either Recommended)	3
or HNRS 2175G	Introduction to Communication Honors	
<i>Area II: Mathematics</i>		
MATH 1511G	Calculus and Analytic Geometry I ¹	4
or MATH 1511H	Calculus and Analytic Geometry I Honors	
<i>Area III: Laboratory Sciences</i>		
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	8
or GEOL 1110G	Physical Geology	
Choose one sequence from the following for four credits:		
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
or PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab	
<i>Area IV: Social/Behavioral Sciences</i> ²		
<i>Area V: Humanities</i> ²		
<i>Area VI: Creative and Fine Arts</i> ²		
<i>General Education Elective</i>		
MATH 1521G	Calculus and Analytic Geometry II ¹	4
or MATH 1521H	Calculus and Analytic Geometry II Honors	
<i>Viewing A Wider World</i> ³		
Departmental/College Requirements		
ET 101	Introduction to Engineering Technology	1
ET 109	Computer Drafting Fundamentals	3
ET 143	Civil/Survey Drafting I	3
ET 154	Construction Methods and Communications	3

ET 254	Concrete Technology	3
ET 308	Fluid Technology	3
ET 308 L	Fluid Technology Lab	1
ET 310	Applied Strength of Materials	3
ET 310 L	Applied Strength of Materials Lab	1
ET 332	Applied Design of Structures I	4
ET 354	Soil and Foundation Technology	4
ET 355	Site/Land Development and Layout	3
ET 410	Senior Seminar	1
ET 412	Highway Technology	3
ET 418	Applied Hydraulics	3
ET 421	Senior Project	3
ET 432	Applied Design of Structures II	4
ET 459	Construction Technology and Management	3
SUR 222	Introduction to Geomatics	3
or DRFT 222	Introduction to Geomatics	
ENGR 120	DC Circuit Analysis	3-4
or PHYS 1240G	Algebra-Based Physics II	
or PHYS 1320G	Calculus -Based Physics II	
ENGR 190	Introduction to Engineering Mathematics	4
ENGR 233	Engineering Mechanics I	3
ENGR 234	Engineering Mechanics II	3
IE 451	Engineering Economy	3
A ST 311	Statistical Applications	3
or MATH 1350G	Introduction to Statistics	
<i>Concentration Coursework</i> ⁴		
CE 479	Pavement Analysis and Design	3
ET 455	Cost Estimating and Scheduling	3
ET 472	Intelligent Transportation Systems (ITS)	3
SUR 328 & 328L	Construction Surveying & Automation Technologies and Construction Surveying & Automation Technologies Lab	3
Second Language: (not required)		
Electives, to bring the total credits to 120		
Total Credits		124-125

¹ Students may need to take any prerequisites needed before enrolling in MATH 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/>) section of the 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 the catalog for a full list of courses

⁴ Concentration-specific coursework. These twelve credits add three credits to the No-Concentration CET program option.

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
ET 101	Introduction to Engineering Technology	1
ET 154	Construction Methods and Communications	3
ENGR 120	DC Circuit Analysis ⁵	4
ENGR 190	Introduction to Engineering Mathematics	4
Credits		16

Spring

ET 109	Computer Drafting Fundamentals	3
MATH 1511G or MATH 1511H	Calculus and Analytic Geometry I ¹ 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 <i>and</i> PHYS 1310L	Algebra-Based Physics I or Calculus -Based Physics I <i>and</i> Calculus - Based Physics I Lab	4
Credits		15

Second Year

Fall		Credits
ET 143	Civil/Survey Drafting I	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
ENGL 2210G or ENGL 2210H	Professional and Technical Communication or Professional and Technical Communication	3
COMM 1115G or HNRS 2175G	Introduction to Communication or Introduction to Communication Honors	3
Credits		16

Spring

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 ²		3
Credits		16

Third Year

Fall		Credits
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 ³		3
Area V: Humanities ²		3
Credits		14

Spring

ET 332	Applied Design of Structures I	4
ET 355	Site/Land Development and Layout	3
SUR 328 & 328L	Construction Surveying & Automation Technologies and Construction Surveying & Automation Technologies Lab ⁴	3

ET 472	Intelligent Transportation Systems (ITS) ⁴	3
Area VI: Creative and Fine Arts ²		3
Credits		16

Fourth Year

Fall		Credits
A ST 311 or MATH 1350G	Statistical Applications or Introduction to Statistics	3
IE 451	Engineering Economy	3
ET 432	Applied Design of Structures II	4
ET 455	Cost Estimating and Scheduling ⁴	3
ET 459	Construction Technology and Management	3
Credits		16

Spring

ET 410	Senior Seminar	1
ET 412	Highway Technology	3
ET 418	Applied Hydraulics	3
ET 421	Senior Project	3
C E 479	Pavement Analysis and Design ⁴	3
Viewing a Wider World ³		3
Credits		16
Total Credits		125

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⁴ Concentration-specific coursework. These twelve credits add three credits to the No-Concentration CET program option.

⁵ 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 in a later semester.