CIVIL ENGINEERING -BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Requirements (126 Credits)

In addition to the university requirements for graduation, all students including transfers must satisfy the requirements contained in the academic policies for the NMSU College of Engineering. Students must have a 2.0 grade-point average in all departmental courses and all prerequisites and co-requisites must be taken as required. If a student takes a class and a co-requisite for that class at the same time and does not achieve a grade of C- or better in the co-requisite, the student may take no further classes for which the course or the corequisite are prerequisite. A student who completes a class three times without achieving a grade of C- or better will be dismissed from the Civil Engineering program, and not allowed to take any Civil Engineering courses from the department.

Students must complete all University degree requirements, which include the following: General Education requirements, Viewing a Wider World requirements, and elective credits to total at least 126 credits with 48 credits in courses numbered 300 or above. Developmental coursework will not count towards the degree requirements or elective credits, but may be needed for enrollment in the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education		
Area I: Communication	S	
English Composition - Level 1		
ENGL 1110G	Composition I	4
English Composition - Level 2		
ENGL 2210G	Professional and Technical Communication Honors	3
Oral Communications		
COMM 1115G	Introduction to Communication	3
Area II: Mathematics		
MATH 1511G	Calculus and Analytic Geometry I ²	4
Area III/IV: Laboratory Sciences and Social/Behavioral Sciences		
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	4
PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab	4
ECON 2110G	Macroeconomic Principles	3
or ECON 2120G	Principles of Microeconomics	
Area V: Humanities ¹		3
Area VI: Creative and F	ine Arts ¹	3
General Education Elec	ctive	
MATH 1521G	Calculus and Analytic Geometry II (Departmental/College Requirement)	4
Viewing A Wider World ³		6
Departmental/College	e Requirements	
Mathematics		
MATH 2530G	Calculus III	3
MATH 3160	Introduction to Ordinary Differential Equations	3
STAT 3110	Statistics for Engineers and Scientists	3

PHYS 1320GCalculus-Based Physics IIA& PHYS 1320Land Calculus-Based Physics II Laband Calculus-Based Physics II Labor CHEM 1225GGeneral Chemistry II Lecture and Laboratory for STEMMajorsMajorsTechnicalEngineering Mechanics IENGR 233Engineering Mechanics IIENGR 234Engineering Mechanics IIET 109Computer Drafting FundamentalsSUR 222Introduction to GeomaticsCit E151Introduction to Civil EngineeringCE 151Introduction to Civil Engineering and Science& 256 Land Environmental Engineering and Science& 256 Land Environmental Science LaboratoryCE 301Mechanics of MaterialsCE 311Civil Engineering MaterialsCE 331Fluid Mechanics and Hydraulics& 331 LLaboratoryCE 356Fundamentals of Environmental EngineeringCE 357Soil MechanicsCE 4475Reinforced Concrete DesignCE 4477Engineering Economics and ConstructionManagementCE 4477Encineering Economics and ConstructionManagementCE 4450CE 445Masory DesignCE 445GeonydrologyCE 445GeonydrologyCE 445GeonydrologyCE 445Masory DesignCE 4470Design of Municipal and Hazardous Waste LamoftilsCE 4470Design of Municipal and Hazardous Waste LamoftilsCE 4479Pavement Analysis and DesignCE 4470Design of Municipal and H	Natural Science		
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A EN 459Groundwater, Wells & PumpsA EN 478Irrigation and Drainage EngineeringC E 444Elements of Steel DesignC E 452GeohydrologyC E 454Wood DesignC E 455Masonry DesignC E 450Site InvestigationC E 470Design of Municipal and Hazardous Waste LandfillsC E 479Pavement Analysis and DesignC E 433Surface Water HydrologyC E 510Introduction to Nondestructive TestingC E 544Advanced Design of Steel StructuresC E 545Advanced Concrete DesignENVE 450Aquatic ChemistryENVE 451Unit Processes/Operation of Wastewater TreatmentENVE 487Air Pollution Control Systems DesignCapstone Design CourseSteel Steme Design CourseChoose one from the following:Steel Steme Design Steel Structures	Elective Courses		
A EN 478Irrigation and Drainage EngineeringC E 444Elements of Steel DesignC E 452GeohydrologyC E 454Wood DesignC E 455Masonry DesignC E 450Site InvestigationC E 470Design of Municipal and Hazardous Waste LandfillsC E 479Pavement Analysis and DesignC E 483Surface Water HydrologyC E 510Introduction to Nondestructive TestingC E 544Advanced Design of Steel StructuresC E 545Advanced Concrete DesignENVE 450Aquatic ChemistryENVE 451Unit Processes/Operation of Wastewater TreatmentENVE 487Air Pollution Control Systems DesignCapstone Design CourseChoose one from the following:	Choose two from the f	ollowing:	6
C E 444Elements of Steel DesignC E 452GeohydrologyC E 452GeohydrologyC E 454Wood DesignC E 455Masonry DesignC E 455Masonry DesignC E 460Site InvestigationC E 470Design of Municipal and Hazardous Waste LandfillsC E 479Pavement Analysis and DesignC E 483Surface Water HydrologyC E 510Introduction to Nondestructive TestingC E 544Advanced Design of Steel StructuresC E 545Advanced Concrete DesignENVE 450Aquatic ChemistryENVE 451Unit Processes/Operation of Water TreatmentENVE 487Air Pollution Control Systems DesignCapstone Design CourseChoose one from the following:	A EN 459	Groundwater, Wells & Pumps	
C E 452GeohydrologyC E 454Wood DesignC E 455Masonry DesignC E 455Masonry DesignC E 460Site InvestigationC E 470Design of Municipal and Hazardous Waste LandfillsC E 479Pavement Analysis and DesignC E 479Pavement Analysis and DesignC E 483Surface Water HydrologyC E 510Introduction to Nondestructive TestingC E 544Advanced Design of Steel StructuresC E 545Advanced Concrete DesignENVE 450Aquatic ChemistryENVE 451Unit Processes/Operation of Water TreatmentENVE 452Unit Processes/Operation of Wastewater TreatmentENVE 487Air Pollution Control Systems DesignCapstone Design CourseStructuresChoose one from the following:Structures	A EN 478	Irrigation and Drainage Engineering	
C E 454Wood DesignC E 455Masonry DesignC E 455Masonry DesignC E 460Site InvestigationC E 470Design of Municipal and Hazardous Waste LandfillsC E 479Pavement Analysis and DesignC E 479Pavement Analysis and DesignC E 483Surface Water HydrologyC E 510Introduction to Nondestructive TestingC E 544Advanced Design of Steel StructuresC E 545Advanced Concrete DesignENVE 450Aquatic ChemistryENVE 451Unit Processes/Operation of Water TreatmentENVE 452Unit Processes/Operation of Wastewater TreatmentENVE 487Air Pollution Control Systems DesignCapstone Design CourseStructuresChoose one from the following:Structures	C E 444	Elements of Steel Design	
C E 455 Masonry Design C E 460 Site Investigation C E 460 Design of Municipal and Hazardous Waste Landfills C E 470 Design of Municipal and Hazardous Waste Landfills C E 479 Pavement Analysis and Design C E 483 Surface Water Hydrology C E 510 Introduction to Nondestructive Testing C E 544 Advanced Design of Steel Structures C E 545 Advanced Concrete Design ENVE 450 Aquatic Chemistry ENVE 451 Unit Processes/Operation of Water Treatment ENVE 487 Air Pollution Control Systems Design Capstone Design Course Choose one from the following:	C E 452	Geohydrology	
C E 460Site InvestigationC E 470Design of Municipal and Hazardous Waste LandfillsC E 470Pavement Analysis and DesignC E 479Pavement Analysis and DesignC E 483Surface Water HydrologyC E 510Introduction to Nondestructive TestingC E 544Advanced Design of Steel StructuresC E 545Advanced Concrete DesignENVE 450Aquatic ChemistryENVE 451Unit Processes/Operation of Water TreatmentENVE 452Unit Processes/Operation of Wastewater TreatmentENVE 487Air Pollution Control Systems DesignCapstone Design CourseState State Stat	C E 454	Wood Design	
C E 470 Design of Municipal and Hazardous Waste Landfills C E 479 Pavement Analysis and Design C E 483 Surface Water Hydrology C E 510 Introduction to Nondestructive Testing C E 544 Advanced Design of Steel Structures C E 545 Advanced Concrete Design ENVE 450 Aquatic Chemistry ENVE 451 Unit Processes/Operation of Water Treatment ENVE 452 Unit Processes/Operation of Wastewater Treatment ENVE 487 Air Pollution Control Systems Design Capstone Design Course Structures Choose one from the following: Structures	C E 455	Masonry Design	
Landfills C E 479 Pavement Analysis and Design C E 483 Surface Water Hydrology C E 510 Introduction to Nondestructive Testing C E 544 Advanced Design of Steel Structures C E 545 Advanced Concrete Design ENVE 450 Aquatic Chemistry ENVE 451 Unit Processes/Operation of Water Treatment ENVE 452 Unit Processes/Operation of Wastewater Treatment ENVE 487 Air Pollution Control Systems Design Capstone Design Course Structures Choose one from the Universe Structures	C E 460	Site Investigation	
C E 483 Surface Water Hydrology C E 510 Introduction to Nondestructive Testing C E 510 Introduction to Nondestructive Testing C E 544 Advanced Design of Steel Structures C E 545 Advanced Concrete Design ENVE 450 Aquatic Chemistry ENVE 451 Unit Processes/Operation of Water Treatment ENVE 452 Unit Processes/Operation of Wastewater Treatment ENVE 487 Air Pollution Control Systems Design Capstone Design Course Choose one from the following:	C E 470	5 ·	
C E 510 Introduction to Nondestructive Testing C E 544 Advanced Design of Steel Structures C E 545 Advanced Concrete Design ENVE 450 Aquatic Chemistry ENVE 451 Unit Processes/Operation of Water Treatment ENVE 452 Unit Processes/Operation of Wastewater Treatment ENVE 487 Air Pollution Control Systems Design Capstone Design Course Choose one from the following:	C E 479	Pavement Analysis and Design	
C E 544 Advanced Design of Steel Structures C E 545 Advanced Concrete Design ENVE 450 Aquatic Chemistry ENVE 451 Unit Processes/Operation of Water Treatment ENVE 452 Unit Processes/Operation of Wastewater Treatment ENVE 487 Air Pollution Control Systems Design Capstone Design Course Choose one from the following:	C E 483	Surface Water Hydrology	
C E 545 Advanced Concrete Design ENVE 450 Aquatic Chemistry ENVE 451 Unit Processes/Operation of Water Treatment ENVE 452 Unit Processes/Operation of Wastewater Treatment ENVE 487 Air Pollution Control Systems Design Capstone Design Course Choose one from the following: State	C E 510	Introduction to Nondestructive Testing	
ENVE 450 Aquatic Chemistry ENVE 451 Unit Processes/Operation of Water Treatment ENVE 452 Unit Processes/Operation of Wastewater Treatment ENVE 487 Air Pollution Control Systems Design Capstone Design Course Choose one from the following: Statement	C E 544	Advanced Design of Steel Structures	
ENVE 451 Unit Processes/Operation of Water Treatment ENVE 452 Unit Processes/Operation of Wastewater Treatment ENVE 487 Air Pollution Control Systems Design Capstone Design Course Choose one from the following:	C E 545	Advanced Concrete Design	
ENVE 451 Unit Processes/Operation of Water Treatment ENVE 452 Unit Processes/Operation of Wastewater Treatment ENVE 487 Air Pollution Control Systems Design Capstone Design Course Choose one from the following: State S	ENVE 450	Aquatic Chemistry	
Treatment ENVE 487 Air Pollution Control Systems Design Capstone Design Course Choose one from the following:	ENVE 451	Unit Processes/Operation of Water Treatment	
ENVE 487 Air Pollution Control Systems Design Capstone Design Course Choose one from the following:	ENVE 452	•	
Choose one from the following:	ENVE 487		
-	Capstone Design Cours	e	
O E 460 Chrysterial Cysterra	Choose one from the f	ollowing:	3
C E 409 STRUCTURAL SYSTEMS	C E 469	Structural Systems	
C E 482 Hydraulic Structures	C E 482	Hydraulic Structures	
C E 485 Design of Earth Dams	C E 485	Design of Earth Dams	
ENVE 456 Environmental Engineering Design	ENVE 456	-	

1

Second Language: (not required)		
Electives, to bring the total credits to 126	0	
Total Credits	126	

¹ See the General Education (https://catalogs.nmsu.edu/nmsu/generaleducation-viewing-wider-world/) section of the catalog for a full list of courses.

- ² MATH 1511G Calculus and Analytic Geometry I is required for the degree but students may need to complete prerequisite(s) prior to enrolling in this course depending on math placement.
- 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.

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
C E 151	Introduction to Civil Engineering ¹	3
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors ²	4
ENGL 1110G	Composition I ²	4
ENGR 190	Introduction to Engineering Mathematics ³	4
	Credits	15
Spring		
ET109	Computer Drafting Fundamentals ⁴	3
GEOL 1110G	Physical Geology ³	4
MATH 1511G	Calculus and Analytic Geometry I ^{2, 5}	4
PHYS 1310G	Calculus -Based Physics I	4
& PHYS 1310L	and Calculus -Based Physics I Lab 2	
	Credits	15
Second Year		
Fall		
COMM 1115G	Introduction to Communication ²	3
ECON 2110G or ECON 2120G	Macroeconomic Principles ² or Principles of Microeconomics	3
ENGL 2210G	Professional and Technical Communication Honors ²	3
ENGR 233	Engineering Mechanics I ²	3
MATH 1521G	Calculus and Analytic Geometry II ²	4
	Credits	16
Spring		
C E 256	Environmental Engineering and Science	4
& 256 L	and Environmental Science Laboratory ³	
C E 301	Mechanics of Materials ²	3
ENGR 234	Engineering Mechanics II ²	3
MATH 2530G	Calculus III ²	3
SUR 222	Introduction to Geomatics ³	3
	Credits	16

Third Year		
Fall CE315	Structural Analysis ³	4
C E 331	Fluid Mechanics and Hydraulics	4
& 331 L	and Fluid Mechanics and Hydraulics	4
	Laboratory ³	
C E 356	Fundamentals of Environmental Engineering ³	3
STAT 3110	Statistics for Engineers and Scientists ³	3
Select a General Ed	lucation Area V (Humanities) Course ^{1, 5}	3
	Credits	17
Spring		
C E 311	Civil Engineering Materials ³	3
C E 357	Soil Mechanics ³	3
C E 382	Hydraulic and Hydrologic Engineering ³	3
PHYS 1320G	Calculus -Based Physics II ²	4
& PHYS 1320L or CHEM 1225G	or General Chemistry II Lecture and Laboratory for STEM Majors	
Select a General Ed	lucation Area VI (Creative and Fine Arts) Course ^{1, 6}	3
	Credits	16
Fourth Year		
Fall		
C E 445	Reinforced Concrete Design ³	3
C E 477	Engineering Economics and Construction Management ⁷	3
MATH 3160	Introduction to Ordinary Differential Equations 2	3
Select a A EN, C E, o	or ENVE Elective Course ^{3, 8}	3
Select a Viewing a	Wider World (VWW) Course ^{1, 9}	3
	Credits	15
Spring		
C E 457	Foundation Design ¹⁰	3
C E 471	Transportation Engineering ¹⁰	3
C E 497	Senior Seminar ³	1
Select a A EN, C E, or ENVE Elective Course ^{3, 8}		
Select a Capstone Design Course ^{3, 8}		3
Select a Viewing a	Wider World (VWW) Course ^{1, 9}	3
	Credits	16
	Total Credits	126

Courses are typically taught in the Fall semester.

² Courses are typically taught in the Fall, Spring and Summer semesters.

- ³ Courses are typically taught in the Fall and Spring semesters.
- ⁴ See the Viewing a Wider World (https://catalogs.nmsu.edu/nmsu/ general-education-viewing-wider-world/#viewingawiderworldtext) section of the catalog to see a full list of courses.
- ⁵ Math Placement: MATH 1511G Calculus and Analytic Geometry I is the starting Math course for the degree but students may need to complete any prerequisites prior to enrolling in this course depending on math placement.
- ⁶ See the General Education (https://catalogs.nmsu.edu/nmsu/generaleducation-viewing-wider-world/) section of the catalog for a full list of courses
- ⁷ Courses are typically taught in the Fall and Summer semesters.
- ⁸ See your advisor for more detailed information about selecting elective courses that are approved to fulfill this requirement.
- ⁹ Courses are typically taught in the Spring semester.