

CIVIL ENGINEERING - MASTER OF ENGINEERING IN CIVIL ENGINEERING

New Mexico State University master's accelerated program provides **the opportunity for academically qualified undergraduate students** to begin working on a master's degree **during their junior and senior years** while completing a bachelor's degree. Typically, a bachelor's degree requires four years to complete, and a master's degree requires an additional two years. The master's accelerated programs allow students the opportunity to complete a graduate program in an accelerated manner. You can also check NMSU's catalog for additional information about our programs.

Please talk to an CE faculty advisor about your MAP plan and develop a course plan in consultation with the advisor. The faculty advisor should preferably be from the CE area of your interest.

MAP Requirements

- The Graduate School allows qualified junior or senior students to substitute its graduate courses for required or elective courses in an undergraduate degree program and then subsequently count those same course as fulfilling graduate requirements in a related graduate program.
- Undergraduate students may apply for acceptance to the accelerated master's program after completing 60 semester hours of undergraduate coursework of which a minimum of 25 semester credit hours must be completed at NMSU.
- The grade point average must be at a minimum of 2.75.
- Students must receive a grade of B or higher in this coursework to be counted for graduate credit. If a grade of B- or lower is earned, it will not count toward the graduate degree.

Accepted MAP Courses

The following courses are accepted for use in the MAP program, any other courses may be considered after a consultation with an advisor. An exception will need to be made to the degree audit in order for the additional course(s) to be included on both the Undergraduate and Graduate degrees.

For students completing their BSCE degree under the **Geotechnical** option:

Prefix	Title	Credits
C E 457	Foundation Design	3
C E 460	Site Investigation	3
C E 470	Design of Municipal and Hazardous Waste Landfills	3
C E 471	Transportation Engineering	3
C E 477	Engineering Economics and Construction Management	3
C E 479	Pavement Analysis and Design	3
C E 485	Design of Earth Dams	3
C E 507	Design of Earth Retaining Structures	3
C E 508	Advanced Soil Behavior	3

For students completing their BSCE degree under the **Structural** option:

Prefix	Title	Credits
C E 457	Foundation Design	3
C E 460	Site Investigation	3
C E 469	Structural Systems	3
C E 471	Transportation Engineering	3
C E 477	Engineering Economics and Construction Management	3
C E 501	Advanced Mechanics of Materials	3
C E 510	Introduction to Nondestructive Testing	3
C E 514	Numerical Methods in Civil Engineering	3
C E 515	Finite Element Methods	3
C E 554	Wood Design	3
C E 555	Masonry Design	3
C E 547	Bridge Engineering	3

For students completing their BSCE degree under the **Environmental** option:

Prefix	Title	Credits
C E 457	Foundation Design	3
C E 470	Design of Municipal and Hazardous Waste Landfills	3
C E 477	Engineering Economics and Construction Management	3
ENVE 550	Aquatic Chemistry	3
ENVE 551	Unit Processes/Operation of Water Treatment	3
ENVE 552	Unit Processes/Operation of Wastewater Treatment	3

For students completing their BSCE degree under the **Water Resources** option:

Prefix	Title	Credits
A EN 459	Groundwater, Wells & Pumps	3
A EN 478	Irrigation and Drainage Engineering	3
C E 452	Geohydrology	3-4
C E 457	Foundation Design	3
C E 477	Engineering Economics and Construction Management	3
C E 482	Hydraulic Structures	3
C E 483	Surface Water Hydrology	3
C E 531	Open Channel Hydraulics	3
C E 557	Water Resources Development	3

For students completing a BS degree in **Engineering Technology** or **Geomatics**:

Prefix	Title	Credits
E T 455	Cost Estimating and Scheduling	3
E T 459	Construction Technology and Management	3
E T 471	Transportation Engineering and Technology	3
E T 472	Intelligent Transportation Systems (ITS)	3
E T 480	Innovation and Product Development	3
SUR 451	Spatial Data Adjustment II	3
SUR 461 & 461L	GNSS Positioning and GNSS Positioning Lab	3
SUR 464	Legal Principles and Boundary Law II	3
SUR 485	Emerging Techniques in Geospatial Technologies	3

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NOTE: No more than 4 courses from any of the lists above can be applied in the MAP for the Master of Engineering in Civil Engineering (MECE) degree.