

CIVIL ENGINEERING

Civil Engineering is a professional engineering discipline that deals with the design, construction, and maintenance of a variety of infrastructure projects, including bridges, roads, water treatment and distribution systems, dams and buildings. Civil Engineering is a profession that serves the public and deals with finding solutions to problems involving traffic, water supplies, sewer systems, flood control, the environment, and many other areas involving the public. There are several disciplines within civil engineering, including structural, geotechnical, water resources, transportation, environmental and many other emerging areas.

PROGRAMS



DEGREES AND CERTIFICATES

- Bachelor of Science in Civil Engineering

ABOUT THE PROGRAM

The Mission of the Civil Engineering Program at Minnesota State Mankato, is to provide an exceptional, practice-based engineering education with ties to industry, enabling graduates to excel in any discipline within the civil engineering profession and serve people throughout Minnesota, across the Nation, and around the globe.

REAL-WORLD CONNECTIONS



SKILLS AND TALENTS

- Engineering Design
- Project Management
- Civil Design
- Construction Projects
- Design Drawing
- Technical Reports

CAREERS

- Civil Engineer
- Design Engineer
- Engineer
- Engineer in Training
- Structural Engineer
- Water Resource Engineer

EMPLOYERS

- AECOM
- Bolton & Menk
- ISG
- Kiewit
- Minnesota DOT
- SRF Consulting Group

INSPIRED ACTION



EMPLOYMENT RATE

99.2%
of program graduates begin their careers within one year of graduation.

Graduates: 138
Respondents: 123
link.mnsu.edu/graduate-follow-up

MEDIAN SALARY

\$95,890

The median annual wage for Civil Engineers in May 2023.

Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, Civil Engineers, at link.mnsu.edu/civil-engineering-salary

PROGRAM WEBSITE



cset.mnsu.edu/ce



SAMPLE FOUR-YEAR PLAN - CIVIL ENGINEERING, BSCE

First Year (Fall)	First Year (Spring)
CIVE 101 Introduction to Civil Engineering (2) ENG 101 Foundations of Writing & Rhetoric (4) MATH 121 Calculus I (4) CIVE 145 CAD For Civil Engineering (2) CHEM 191 Chemistry Applications (3)	MATH 122 Calculus II (4) PHYS 221 Physics I (4) CIVE 201 Introduction to Problem Solving and Civil Engineering Design (2) CIVE 271 Civil Engineering Measurements (2)
Second Year (Fall)	Second Year (Spring)
GEOL 121 Physical Geology (4) GEOL 291 Water Soil Analysis (2) ME 212 Statics (3) ME 291 Engineering Analysis MATH 321 Ordinary Differential Equations	MATH 223 Calculus III (4) ENG 271W Technical Communication (4) ME 214 Dynamics (3) ME 223 Mechanics of Materials (3) ME 299 Thermal Analysis (2)
Third Year (Fall)	Third Year (Spring)
ECON 201 Principles of Macroeconomics (3) OR ECON 202 Principles of Microeconomics (3) CIVE 321 Fluid Mechanics (3) CIVE 340 Structural Analysis (3) CIVE 370W Transportation (4) CIVE 380 Environmental Engineering (3)	DIVE 235 Civil Engineering Materials (3) CIVE 350 Hydraulics and Hydrology (4) CIVE 360 Geotechnical Engineering (4) CIVE 446 Reinforced Concrete Design (3) OR CIVE 448 Steel Design (3) General Elective Course (3)
Fourth Year (Fall)	Fourth Year (Spring)
PHYSICS 222 General Physics II (3) OR PHYS 223 General Physics III (3) PHYS 232 General Physics II Laboratory (1) OR PHYS 233 General Physics II Laboratory (1) CIVE 401W Civil Engineering Design I (2) CIVE 435 Experimentation I (2) Elective Course in Major (6) General Elective Course (3)	CIVE 402W Civil Engineering Design II (3) CIVE 436 Experimentation II (2) Elective Course in Major (3) Elective Course in Major (3) Elective Course in Major (2) General Elective Course (3)

For more information about program requirements, visit:
mnsu.edu/academics/academic-catalog

LEARN MORE

Department of Mechanical and Civil Engineering
 205 Trafton Science Center E
 507-389-6383

NOTES
