

CIVIL ENGINEERING

Transfer Program with UNL

Civil engineers design, build, and and oversee the infrastructure of buildings and projects in both the public and private sector. They design infrastructures such as roads, buildings, airports, tunnels, dams, bridges, and other systems for electrical, water, and gas supplies. A degree in Civil Engineering will give you expertise in areas like construction, structural engineering, geotechnical, and transportation. With a Civil Engineering degree, you'll be well-prepared in the fundamental areas of construction, architecture, fluid dynamics, systems and design engineering, and materials engineering.

Engineering Readiness Activities: This academic option includes mentoring, tutoring, and experiential learning such as hands-on projects and summer academies to prepare you for the rigors of an Engineering program. Acclimation trips to UNL provide the opportunity to meet and network with UNL and WSC engineering ambassadors.

fast facts

Hours:

Up to 80 hours at Wayne State College 60 hours at the University of Nebraska

Degrees offered: This is a joint program between Wayne State College and University of Nebraska-Lincoln College of Engineering. You will complete your first years of coursework at Wayne State, then transfer to UNL's College of Engineering in Lincoln or Scott Campus at the University of Nebraska-Omaha, to complete your B.S. in civil engineering.

Department: Physical Sciences and Mathematics

School: Science, Health, and Criminal Justice

focus on results

Skills Learned

- Mechanical design
- Civil design
- Research and development
- Mathematics
- Physical science
- Computer-based measurement and analysis tools
- Organizational, listening, communication, and interpersonal skills
- Critical thinking and problem-solving skills
- Lead and work effectively in teams

Possible Careers

- Building services engineer
- Project engineer
- Systems engineer
- Water engineer
- Nuclear engineer
- Sustainability consultant
- Geotechnical engineer
- Fire risk assessor
- Patent attorney
- Urban designer
- Control systems specialist

Types of Employers

- Government public sector
- Production firms
- Water engineering firms
- Civil engineering firms
- Power plants
- Manufacturing companies
- Research lab
- Transportation companies
- Computer and electronic products companies
- Construction companies

outside the classroom



Visit www.wsc.edu/clubs to learn more about clubs and organizations on campus.

Activities / Opportunities

- Conduct research projects
- Conferences and presentations
- Peer mentoring and tutoring
- Service-Learning
- Study Abroad

Clubs / Organizations

- Biology Club
- Kappa Mu Epsilon (Math Honorary)

Sample program of study

2023-24 Academic Year

Every effort is made to ensure this information is current, but please be aware that some content may have changed. There is no substitute for developing a careful course registration plan in consultation with your advisor. The class sequence listed is suggested only. The final decision rests with the student and academic advisor.

The following courses can be taken at Wayne State College prior to transferring to the University of Nebraska:

Business and Technology	
CSC 150 Programming Fundamentals	3
ITE 109 Mechanical Engineering and Drafting	3
Choose one of the following:	
ECO 202 Principles of Macroeconomics	3
ECO 203 Principles of Microeconomics	3
Humanities	
CNA 252 Public Address	3
ENG 102 Composition Skills	3
ENG 200 Expository Writing	3
Choose one of the following:	
ART 110 Drawing I	3
ART 344 Art History I	3
ART 345 Art History II	3
CNA 101 Intro to Theatre	3
ENG 202 Poetry Workshop	3
ENG 203 Fiction Workshop	3
Math	
MAT 140 Calculus I	
MAT 180 Applied Probability and Statistics	
MAT 240 Calculus II	
MAT 250 Differential Equations	3
MAT 340 Calculus III	5

Natural Science	
BIO 102 Biology for General Studies and Laboratory	4
CHE 106 General Chemistry I	
CHE 107 General Chemistry II	4
EAS 120 Introduction to Geology	
PHY 115 Professionalism in Science and Engineering	2
PHY 214 Engineering Statics	
PHY 215 Applied Dynamics	3
PHY 301 University Physics I	4
PHY 302 University Physics II	4
Social Science	
Choose one of the following:	
GEO 120 World Regional Geography	
GEO 300 Human Geography	
HIS 170 World Civilization I	
HIS 171 World Civilization II	
PHI 105 Ethics and Values	
POS 110 Intro to World Politics	
SOC 110 Intro to Anthropology	
SOC 220 Social Problems	3
SOC 415 The Family	3

Choose one of the following:

pre-engineering faculty



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