NORTHERN ILLINOIS UNIVERSITY
College of Engineering and Engineering Technology

Waubonsee Community College and NIU CEET Transfer Guidelines for B.S. Degree in Industrial and Systems Engineering

The 2+2 Plan for Community College Students

The Department of Industrial and Systems Engineering welcomes transfer students from Illinois community colleges. Students find it easy to continue their studies at NIU if they plan well. Therefore, following the course guidelines in this brochure while completing an Associate in Engineering Science (AES) Degree is highly recommended [1]. Students should always work closely with their community college advisor.

Courses at Waubonsee Community College

Courses at Waubonsee Community College		Equivalent courses at NIU
*COM 100	Fundamentals of Speech Communication	COMS 100
**ENG 101	First-Year Composition I	ENGL 103
**ENG 102	First-Year Composition II	ENGL 203
***ECN 201 **OR** ***ECN 202	Principles of Economics – Microeconomics **OR** Principles of Economics – Macroeconomics	ECON 260 **OR** ECON 261
***PSY 100	Introduction to Psychology	PSYC 102
CHM 121	General Chemistry	CHEM 210 and CHEM 212
CIS 130	C++ Programming	CSCI 240 (see CSCI department to adjust)
MTH 131	Calculus w/ Analytic Geometry I	MATH 229
MTH 132	Calculus w/ Analytic Geometry II	MATH 230
MTH 233	Calculus w/ Analytic Geometry III	MATH 232
MTH 240	Differential Equations	MATH 336
PHY 221	General Physics I	PHYS 253
PHY 222	General Physics II	PHYS 273
EGR 101	Engineering Graphics	MEE 270
EGR 220	Analytical Mechanics – Statics	MEE 210
EGR 230	Analytical Mechanics – Dynamics	MEE 211
*Satisfies NIU Foundational Studies Oral Communication Requirement. **Satisfies NIU Foundational Studies Writing Requirement. ***Satisfies NIU Society and Culture Knowledge Domain (Gen Ed) Requirement.		
[1] Only A.A. and A.S. degrees satisfy NIU's general education requirements.		

General Education Requirements

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NIU's College of Engineering and Engineering Technology no longer requires special sequences in Social Sciences and Humanities. Therefore, students only need to satisfy NIU's general education requirements. When choosing general education ("knowledge domain") courses, please consult with your Waubonsee Community College advisor, verify general education requirements in the NIU Undergraduate Catalog, and check the NIU Community College Articulation Tables for transferability. Students are also required to fulfill a Human Diversity requirement, which may be fulfilled by a knowledge domain course.

Courses at NIU

Remaining classes to be taken at NIU's College of Engineering and Engineering Technology to earn a Bachelor of Science Degree in **Industrial and Systems Engineering:**

ISYE 220	Engineering Economy
ISYE 250	Introduction to Lean Systems Engineering
ISYE 310	Work Measurement and Work Design
ISYE 335	Probability and Statistics for Engineers
ISYE 350	Principles of Manufacturing Processes
ISYE 370	Operations Research: Deterministic Models
ISYE 371	Operations Research: Probabilistic Models
ISYE 410	Human Factors Engineering
ISYE 430	Quality Control
ISYE 435	Experimental Design for Engineering
ISYE 440	Production Planning and Control
ISYE 450	Lean Manufacturing Systems
ISYE 460	Facilities Planning and Design
ISYE 480	Simulation Modeling and Analysis
ISYE 492	Industrial and Systems Engineering Senior Design Project Proposal
ISYE 495	Senior Design Project
ELE 210 **OR** TECH 175 **AND** TECH 175A	Engineering Circuit Analysis **OR** Electricity and Electronics Fundamentals **AND** Electricity and Electronics Fundamentals Laboratory
UEET 301	Transition to the Profession of Engineering

Technical Electives
In addition to the courses listed above, students are required to complete 15-18 hours of electives within CEET. Specific electives will be reviewed with student's assigned faculty advisor and academic catalog.

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For More Information

Department of Industrial and Systems Engineering
CEET EB 230
Northern Illinois University
DeKalb, IL 60115-2854
(815) 753-1269

Visit our Home Page. This site provides information on course descriptions, course syllabi, lab tours, faculty profiles, student organizations, suggested 4-year degree plan, other useful links, etc.

For undergraduate application materials, contact:

Office of Admissions
Northern Illinois University
DeKalb, IL 60115-2857
admissions@niu.edu

Apply online at: http://www.admissions.niu.edu/admissions/

For more information on transfer programs at NIU:
Call **(815) 753-0446** or **(800) 892-3050 (toll free)** and ask to speak with a Transfer Counselor.

For more information about the Engineering Transfer Program at Waubonsee Community College, contact: Counseling, Advising and Transfer Center at (630) 466-2361 or counseling@waubonsee.edu.

Disclaimer: Although NIU attempts to accommodate the course requests of all students, some course offerings may be limited by financial, space, and staffing considerations, or may otherwise be unavailable. Nothing in this brochure may be construed to promise or guarantee registration in any course or course of study (whether required or elective), nor may anything be construed to promise or guarantee the completion of an academic program within a specific length of time. All degree requirements are subject to the provisions and notices in the Undergraduate Catalog. Information in this brochure is valid through August 2020.

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