



NORTHERN ILLINOIS UNIVERSITY

**College of Engineering
and Engineering Technology**

Bridging Theory with Practice

Elgin 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 Elgin Community College

Courses at Elgin Community College		Equivalent courses at NIU
*CMS 101	Fundamentals of Speech	COMS 100
**ENG 101	English Composition I	ENGL 103
**ENG 102	English Composition II	ENGL 203
***ECN 201 OR ***ECN 202	Principles of Microeconomics OR Principles of Macroeconomics	ECON 260 OR ECON 261
***PSY 100	Introduction to Psychology	PSYC 102
CHM 142	General Chemistry I	CHEM 210 and CHEM 212
CIS 123+CIS 223	Computer Science for Engineers	CSCI 240 (contact CSCI Department to adjust)
MTH 190 AND MTH 210	Calculus w/ Analytic Geometry I AND Calculus w/ Analytic Geometry II	MATH 229 AND MATH 230
MTH 230	Calculus w/ Analytic Geometry III	MATH 232
MTH 250	Differential Equations	MATH 336
PHY 111	Engineering Physics	PHYS 253
PHY 112	Engineering Physics	PHYS 273
CAD 111	Pro/E Adv Part & Assembly Design	MEE 270
EGR 152	Statics	MEE 210
EGR 252	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 automatically satisfy NIU's general education requirements.		



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General Education Requirements

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 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 BOTH TECH 175 AND TECH 175A	Engineering Circuit Analysis OR BOTH Electricity and Electronics Fundamentals AND Electricity and Electronics Fundamentals Laboratory
UEET 101 OR UEET 301	Introduction to Engineering OR Transition to the Profession of Engineering

15-18 semester hours of 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.

For More Information



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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 Elgin Community College, contact: ECC Academic and Transfer Advising at (847) 214-7390 or advising@elgin.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 2018.

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