



# Carl Sandburg 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 of Science (AES) Degree is highly recommended [1]. Students should always work closely with their community college advisor.

## Courses at Carl Sandburg College

Courses at Carl Sandburg College		Equivalent courses at NIU
**ENG 101	Freshman Composition 1	ENGL 103
**ENG 102	Freshman Composition 2	ENGL 203
***ECO 202 OR ***ECO 201	Principles of Micro Economics OR Principles of Macro Economics	ECON 260 OR ECON 261
***PSY 101	General Psychology 1	PSYC 102
CHM 110	General Chemistry 1	CHEM 210 and CHEM 212
MAT 240	Calculus w/ Analytic Geometry 1	MATH 229
MAT 241	Calculus w/ Analytic Geometry 2	MATH 230
MAT 242	Calculus w/ Analytic Geometry 3	MATH 232
MAT 260	Differential Equations	MATH 336
PHY 161	Engineering Physics 1	PHYS 253
PHY 162	Engineering Physics 2	PHYS 273
**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

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 Carl Sandburg College advisor, verify general education requirements in the [NIU Undergraduate Catalog](#), and check [the NIU Community College Articulation Tables](#) for transferability.



NORTHERN ILLINOIS UNIVERSITY

## College of Engineering and Engineering Technology

### 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	Integrated 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
COMS 100	Fundamentals of Oral Communication
CSCI 240	Computer Programming in C++
ELE 210 <b>OR</b> <b>BOTH</b> TECH 175 <b>AND</b> TECH 175A	Engineering Circuit Analysis <b>OR</b> <b>BOTH</b> Electricity and Electronics Fundamentals <b>AND</b> Electricity and Electronics Fundamentals Laboratory
MEE 270	Engineering Graphics
MEE 209 <b>OR</b> <b>BOTH</b> MEE 210 <b>AND</b> MEE 211	Engineering Mechanics: Statics and Dynamics <b>OR</b> <b>BOTH</b> Engineering Mechanics I <b>AND</b> Engineering Mechanics II
UEET 101	Introduction to 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



NORTHERN ILLINOIS UNIVERSITY

## College of Engineering and Engineering Technology

### Department of Industrial and Systems Engineering

CEET EB 230  
Northern Illinois University  
DeKalb, IL 60115-2854  
(815) 753-1282

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](mailto: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 Carl Sandburg College, contact: Carl Sandburg College Academic Advising at (309) 341-5237 (Galesburg), (309) 772-2177 (Bushnell) or (217) 357-3129 (Carthage).

**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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