

Oakton Community College and NIU CEET Transfer Guidelines for B.S. Degree in <u>Industrial and Systems Engineering</u>

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 in Engineering (ASE) Degree is highly recommended [1]. Students should always work closely with their community college advisor.

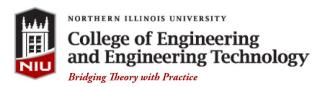
Courses at Oakton Community College

Courses at Oakton Community College		Equivalent courses at NIU
*SPE 103	Effective Speech	COMS 100
**EGL 101	Composition I	ENGL 103
**EGL 102	Composition II	ENGL 203
***ECO 202 OR ***ECO 201	Principles of Microeconomics OR Principles of Macroeconomics	ECON 260 OR ECON 261
***PSY 101	Introduction to Psychology	PSYC 102
CHM 121	General College Chemistry I	CHEM 210 and CHEM 212
CIS 220	Intro to C Programming	CSCI 240
MAT 250	Calculus I	MATH 229
MAT 251	Calculus II	MATH 230
MAT 252	Calculus III	MATH 232
MAT 262	Ordinary Differential Equations	MATH 336
PHY 221	General Physics I	PHYS 253
PHY 222	General Physics II	PHYS 273
ENG 120	Engineering Graphics	MEE 270
ENG 211	Analytical Mechanics (Statics)	MEE 210
ENG 212	Analytical Mechanics (Dynamics)	MEE 211
ENG 220	Engineering Circuit Analysis	ELE 210

^{*}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

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 Oakton 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.

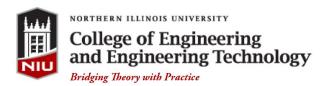
Courses at NIU

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	
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.



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 Oakton Community College contact: Advising Services at (847) 635-1700 (Des Plaines campus) or (847) 635-1400 (Skokie campus).

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.