

Lake Land 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 Lake Land College

Courses at Lake Land College		Equivalent courses at NIU	
**ENG 120	Composition I	ENGL 103	
**ENG 121	Composition II	ENGL 203	
***ECO 232 OR ***ECO 231	Principles of Economics II (Micro) OR Principles of Economics I (Macro)	ECON 260 OR ECON 261	
***PSY 271	Intro to Psychology	PSYC 102	
CHM 150	General Chemistry I	CHEM 210 and CHEM 212	
MAT 151	C Programming w/ Engineering Applications	CSCI 240	
MAT 241	Analytic Geometry and Calculus I	MATH 229	
MAT 242 (and MAT 241)	Analytic Geometry and Calculus II (and Analytic Geometry and Calculus I)	MATH 230	
MAT 243	Analytic Geometry and Calculus III	MATH 232	
MAT 245	Differential Equations	MATH 336	
PHY 140	University Physics I	PHYS 253	
PHY 141	University Physics II	PHYS 273	
PHY 239	Mechanics I	MEE 210	
PHY 240	Mechanics II	MEE 211	
**Satisfies NIU Foundational Studies Writing Requirement.			

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 Lake Land College advisor, verify general

^{***}Satisfies NIU Society and Culture Knowledge Domain (Gen Ed) Requirement.

^[1] Only A.A. and A.S. degrees satisfy NIU's general education requirements.



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	
COMS 100	Fundamentals of Oral Communication	
ELE 210 OR BOTH TECH 175 AND TECH 175A	Engineering Circuit Analysis OR BOTH Electricity and Electronics Fundamentals AND Electricity and Electronics Fundamentals Laboratory	
MEE 270	Engineering Graphics	
UEET 101/301	Introduction to Engineering/Transition to the Profession of Engineering	

15 semester hours of Technical Electives

At least 9 semester hours must be from non-required ISYE courses at the 300- or 400-level. The remaining 6 semester hours may be chosen from: non-required ISYE 300- or 400-level courses **or** 300- or 400-level courses from ELE or MEE with the exception of MEE 330 and MEE 331 **or** from the following: ACCY 206, ACCY 207, ACCY 288, BIOS 311, COMS 302, COMS 361, ECON 301, ECON 361, ECON 368, MATH 240, MATH 360, MATH 380, MATH 434, MATH 435, MATH 439, MGMT 333, OMIS 351, OMIS 442, PSYC 345, PSYC 372, STAT 400/ACSC 400X, STAT 435, STAT 438/ACSC 438X.



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:

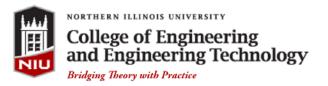
Office of Admissions Northern Illinois University DeKalb, IL 60115-2857 admissions@niu.edu

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 Lake Land College, contact: Counseling Services at (217) 234-5232 or counsel@lakeland.cc.il.us.

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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