Highland 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 Highland Community College

Courses at Highland Community College		Equivalent courses at NIU
*SPCH 191	Fundamentals of Speech	COMS 100
**ENGL 121	Rhetoric and Composition I	ENGL 103
**ENGL 122	Rhetoric and Composition II	ENGL 203
***ECON 111 OR ***ECON 112	Principles of Economics I OR Principles of Economics II	ECON 261 OR ECON 260
***PSY 161	Introduction to Psychology	PSYC 102
CHEM 123	General College Chemistry I	CHEM 210 and CHEM 212
INFT 190	Principles of Computer Science I	CSCI 240 (See CSCI department to adjust)
MATH 168	Analytic Geometry and Calculus I	MATH 229
MATH 268	Analytic Geometry and Calculus II	MATH 230
MATH 269	Analytic Geometry and Calculus III	MATH 232
MATH 265	Differential Equations	MATH 336
PHYS 143	General Physics I	PHYS 253
PHYS 144	General Physics II	PHYS 273
DRAF 151	Engineering Graphics	MEE 270
PHYS 220	Mechanics (Statics and Dynamics)	MEE 209
PHYS 246	Introduction to Circuit Analysis	ELE 210 and ELE 210U
PHYS 120	Introduction to Engineering	UEET 101

^{*}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 Highland CC 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	

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 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 Highland Community College, contact Thedford Jackson, Transfer Coordinator/Academic Advisor, at (815) 599-3487 or thedford.jackson@highland.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.