

# Moraine Valley 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 of Science (AS) Degree is highly recommended [1]. Students should always work closely with their community college advisor.

# **Courses at Moraine Valley Community College**

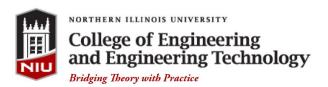
Courses at Moraine Valley Community College		Equivalent courses at NIU
*COM 103	Speech Fundamentals	COMS 100
**COM 101	Composition I	ENGL 103
**COM 102	Composition II	ENGL 203
***ECO 102 OR ***ECO 101	Principles of Microeconomics OR Principles of Macroeconomics	ECON 260 OR ECON 261
***PSY 101	Introduction to Psychology	PSYC 102
CHM 131	Chemistry (University Oriented) I	CHEM 210 and CHEM 212
CSC 140	Intro to Computer Science	CSCI 240 (see CSCI department to adjust)
MTH 150	Calculus I/Analytic Geometry	MATH 229
MTH 151	Calculus II/Analytic Geometry	MATH 230
MTH 152	Calculus III/Analytic Geometry	MATH 232
MTH 201	Differential Equations	MATH 336
PHY 203	Mechanics	PHYS 253
PHY 204	Heat, Electricity and Magnetism	PHYS 273
EGN 150	Engineering Graphics	MEE 270
EGN 201	Engineering Statics	MEE 210
EGN 202	Engineering Dynamics	MEE 211

<sup>\*</sup>Satisfies NIU Foundational Studies Oral Communication Requirement.

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

<sup>\*\*</sup>Satisfies NIU Foundational Studies Writing Requirement.

<sup>\*\*\*</sup>Satisfies NIU Society and Culture Knowledge Domain (Gen Ed) 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 MVCC 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.

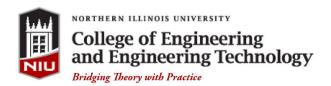
## **Courses at NIU**

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		
UEET 301	Transition to the Profession of Engineering	

### **Technical Electives**

In addition to the courses listed above, students are required to complete 15 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 Moraine Valley Community College, contact: Academic Advising at (708) 974-5721 or <a href="mailto:advising@morainevalley.edu">advising@morainevalley.edu</a>.

**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.