

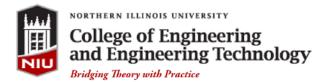
Illinois Central College and NIU CEET Transfer Guidelines for B.S. Degree in Industrial and Systems Engineering

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 Illinois Central College

| Courses at Illinois Central College | | Equivalent courses at NIU | |
|--|--|--|--|
| **ENGL 110 | Composition I | ENGL 103 | |
| **ENGL 111 | Composition II | ENGL 203 | |
| ***ECON 111 OR ***ECON 110 | Principles of Microeconomics OR Principles of Macroeconomics | ECON 260 OR ECON 261 | |
| ***PSY 110 | Introduction to Psychology | PSYC 102 | |
| CHEM 130 | General Chemistry | CHEM 210 and CHEM 212 | |
| CMPSC 125 | Programming in C++ | CSCI 240 (See CSCI department to adjust) | |
| MATH 222 | Calculus and Analytic Geometry I | MATH 229 | |
| MATH 223 | Calculus and Analytic Geometry II | MATH 230 | |
| MATH 224 | Calculus and Analytic Geometry III | MATH 232 | |
| MATH 250 | Differential Equations | MATH 336 | |
| PHYS 211 | Engineering Physics: Mechanics | PHYS 253 | |
| PHYS 212 | Engineering Physics: Electricity and Magnetism | PHYS 273 | |
| ENGR 113 | Engineering Graphics/CAD | MEE 270 | |
| ENGR 251 | Statics | MEE 210 | |
| ENGR 252 | Dynamics | MEE 211 | |
| ENGR 240 | Engineering Circuit Analysis | ELE 210 | |
| ENGR 110 | Introduction to Engineering | UEET 101 | |
| **Satisfies NIU Foundational Studies Writing Requirement. ***Satisfies NIU Society and Culture Knowledge Domain (Gen Ed) Requirement. | | | |
| [1] Only A.A. an | [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 Illinois Central College 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.

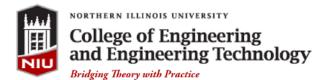
Courses at NIU

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 & Systems Engineering Senior Design Project Proposal | |
| ISYE 495 | Senior Design Project | |
| COMS 100 | Fundamentals of Oral Communication | |
| | | |

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 366, 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 Illinois Central College, contact: Math, Science and Engineering Department, Room 320B, or (309) 694-5365.

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.

Revised 8/5/2019