McHenry County 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 McHenry County College

<table>
<thead>
<tr>
<th>Courses at McHenry County College</th>
<th>Equivalent courses at NIU</th>
</tr>
</thead>
<tbody>
<tr>
<td>*SPE 151 Introduction to Speech</td>
<td>COMS 100</td>
</tr>
<tr>
<td>**ENG 151 Composition I</td>
<td>ENGL 103</td>
</tr>
<tr>
<td>**ENG 152 Composition II</td>
<td>ENGL 203</td>
</tr>
<tr>
<td>***ECO 251 Microeconomics OR ECO 252 Macroeconomics</td>
<td>ECON 260 OR ECON 261</td>
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<tr>
<td>***PSY 151 Introduction to Psychology</td>
<td>PSYC 102</td>
</tr>
<tr>
<td>CHM 165 General Chemistry I</td>
<td>CHEM 210 and CHEM 212</td>
</tr>
<tr>
<td>CSC 121 Computer Science I</td>
<td>CSCI 240 (Contact CSCI Department for adjustment)</td>
</tr>
<tr>
<td>MAT 175 Calculus w/ Analytic Geometry I</td>
<td>MATH 229</td>
</tr>
<tr>
<td>MAT 245 Calculus w/ Analytic Geometry II</td>
<td>MATH 230</td>
</tr>
<tr>
<td>MAT 255 Calculus w/ Analytic Geometry III</td>
<td>MATH 232</td>
</tr>
<tr>
<td>MAT 260 Differential Equations</td>
<td>MATH 336</td>
</tr>
<tr>
<td>PHY 291 Principles of Physics I</td>
<td>PHYS 253</td>
</tr>
<tr>
<td>PHY 292 Principles of Physics II</td>
<td>PHYS 273</td>
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<tr>
<td>EGR 151 Engineering Graphics</td>
<td>MEE 270</td>
</tr>
<tr>
<td>EGR 251 Statics</td>
<td>MEE 210</td>
</tr>
<tr>
<td>EGR 252 Dynamics</td>
<td>MEE 211</td>
</tr>
<tr>
<td>EGR 260 Circuit Analysis</td>
<td>ELE 210 and ELE 210U</td>
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</tbody>
</table>

*Satisfies NIU Foundational Studies Oral Communication Requirement.
**Satisfies NIU Foundational Studies Writing Requirement.
***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 McHenry CC advisor, verify general education requirements in the NIU Undergraduate Catalog, and check the NIU Community College Articulation Tables for transferability.

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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ISYE 220</td>
<td>Engineering Economy</td>
</tr>
<tr>
<td>ISYE 250</td>
<td>Introduction to Lean Systems Engineering</td>
</tr>
<tr>
<td>ISYE 310</td>
<td>Work Measurement and Work Design</td>
</tr>
<tr>
<td>ISYE 335</td>
<td>Probability and Statistics for Engineers</td>
</tr>
<tr>
<td>ISYE 350</td>
<td>Principles of Manufacturing Processes</td>
</tr>
<tr>
<td>ISYE 370</td>
<td>Operations Research: Deterministic Models</td>
</tr>
<tr>
<td>ISYE 371</td>
<td>Operations Research: Probabilistic Models</td>
</tr>
<tr>
<td>ISYE 410</td>
<td>Human Factors Engineering</td>
</tr>
<tr>
<td>ISYE 430</td>
<td>Quality Control</td>
</tr>
<tr>
<td>ISYE 435</td>
<td>Experimental Design for Engineering</td>
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<tr>
<td>ISYE 440</td>
<td>Production Planning and Control</td>
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<tr>
<td>ISYE 450</td>
<td>Lean Manufacturing Systems</td>
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<tr>
<td>ISYE 460</td>
<td>Facilities Planning and Design</td>
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<tr>
<td>ISYE 480</td>
<td>Simulation Modeling and Analysis</td>
</tr>
<tr>
<td>ISYE 492</td>
<td>Industrial and Systems Engineering Senior Design Project Proposal</td>
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<tr>
<td>ISYE 495</td>
<td>Senior Design Project</td>
</tr>
<tr>
<td>UEET 101</td>
<td>Introduction to Engineering</td>
</tr>
</tbody>
</table>

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 386, MATH 240, MATH 360, MATH 380, MATH 434, MATH 435, MATH 439, MGMT 333, OMIS 351, OMIS 442, PSYC 345, PSYC 372, STAT 470, STAT 473, STAT 473A, STAT 474, STAT 478.
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 McHenry County College, contact: Advising and Transfer Center at (815) 479-7565 or advising@mchenry.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 2017.

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