The 2+2 Plan for Community College Students

The Department of Electrical 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 Kishwaukee College

<table>
<thead>
<tr>
<th>Courses at Kishwaukee College</th>
<th>Equivalent courses at NIU</th>
</tr>
</thead>
<tbody>
<tr>
<td>*COM 100 Oral Communication I</td>
<td>COMS 100</td>
</tr>
<tr>
<td>**ENG 103 Composition I</td>
<td>ENGL 103</td>
</tr>
<tr>
<td>**ENG 104 Composition II</td>
<td>ENGL 203</td>
</tr>
<tr>
<td>CHE 210 General Chemistry I</td>
<td>CHEM 210 and CHEM 212</td>
</tr>
<tr>
<td>CIS 150 C++ Programming I</td>
<td>CSCI 240</td>
</tr>
<tr>
<td>MAT 229 Calculus and Analytic Geometry I</td>
<td>MATH 229</td>
</tr>
<tr>
<td>MAT 230 Calculus and Analytic Geometry II</td>
<td>MATH 230</td>
</tr>
<tr>
<td>MAT 231 Calculus and Analytic Geometry III</td>
<td>MATH 232</td>
</tr>
<tr>
<td>MAT 260 Differential Equations</td>
<td>MATH 336</td>
</tr>
<tr>
<td>PHY 260 Physics for Science and Engineering I</td>
<td>PHYS 253</td>
</tr>
<tr>
<td>PHY 261 Physics for Science and Engineering II</td>
<td>PHYS 273</td>
</tr>
<tr>
<td>EGR 270 Statics</td>
<td>MEE 210</td>
</tr>
<tr>
<td>EGR 272 Dynamics</td>
<td>MEE 211</td>
</tr>
<tr>
<td>EGR 290 Circuit Analysis</td>
<td>ELE 210</td>
</tr>
<tr>
<td>EGR 101 Introduction to Engineering</td>
<td>UEET 101</td>
</tr>
</tbody>
</table>

*Satisfies NIU Foundational Studies Oral Communication Requirement. **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 Kishwaukee advisor, verify general
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 Electrical Engineering:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELE 210U</td>
<td>Engineering Circuit Laboratory Project</td>
</tr>
<tr>
<td>ELE 250</td>
<td>Computer Engineering I</td>
</tr>
<tr>
<td>ELE 250U</td>
<td>Computer Engineering I Laboratory</td>
</tr>
<tr>
<td>ELE 315</td>
<td>Signals and Systems</td>
</tr>
<tr>
<td>ELE 330</td>
<td>Electronic Circuits</td>
</tr>
<tr>
<td>ELE 335</td>
<td>Theory of Semiconductor Devices I</td>
</tr>
<tr>
<td>ELE 340</td>
<td>Electrical Power Systems</td>
</tr>
<tr>
<td>ELE 356</td>
<td>Computer Engineering II</td>
</tr>
<tr>
<td>ELE 360</td>
<td>Communications Systems</td>
</tr>
<tr>
<td>ELE 370</td>
<td>Engineering Electromagnetics</td>
</tr>
<tr>
<td>ELE 380</td>
<td>Control Systems I</td>
</tr>
<tr>
<td>ELE 491</td>
<td>Electrical Engineering Design Proposal</td>
</tr>
<tr>
<td>ELE 492 OR</td>
<td>Electrical Engineering Design Project</td>
</tr>
<tr>
<td>ELE 429</td>
<td>Biomedical Engineering Design Project</td>
</tr>
<tr>
<td>ISYE 220</td>
<td>Engineering Economy</td>
</tr>
<tr>
<td>ISYE 335 OR</td>
<td>Probability and Statistics for Engineers</td>
</tr>
<tr>
<td>STAT 350</td>
<td>Introduction to Probability and Statistics</td>
</tr>
<tr>
<td>PHYS 283</td>
<td>Fundamentals of Physics III: Quantum Physics</td>
</tr>
</tbody>
</table>

**18 semester hours of Technical Electives**

Electives may be any ELE course numbered 400 or higher with the exception of ELE 429, ELE 491, ELE 492, and ELE 497. With the approval of the Department of Electrical Engineering, other mathematics, sciences, or engineering courses may be used as electives. At least 12 of these 18 semester hours must be from the Department of Electrical Engineering, and a minimum of two courses must be selected from one of the following five areas: Microelectronics, Power/Controls, Signal Processing/Communications, Electromagnetics, and Computer Engineering.

**For More Information**

Department of Electrical Engineering
CEET EB 330
Northern Illinois University
Visit our Home Page. This site provides information on course descriptions, course syllabi, lab tours, faculty profiles, student organizations, suggested 4-year degree plans, 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 Kishwaukee College, contact: Counseling and Student Development at (815) 825-2086 ext. 5070 or cnsl_adv@kishwaukeeccollege.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 2016.

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