



# Heartland Community College and NIU CEET Transfer Guidelines for B.S. Degree in Electrical Engineering

## 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 Heartland Community College

Courses at Heartland Community College		Equivalent courses at NIU
*COMM 101	Introduction to Oral Communication	COMS 100
**ENGL 101	Critical Reading and Writing	ENGL 103
**ENGL 102	Multimodal Composition	ENGL 203
CHEM 161	General Chemistry I	CHEM 210 and CHEM 212
CSCI 130 <b>AND</b> CSCI 131	Computer Science I <b>AND</b> Computer Science II	CSCI 240 and CSCI 241 (only 240 is required for ELE)
MATH 161	Calculus I	MATH 229
MATH 162	Calculus II	MATH 230
MATH 163	Calculus III	MATH 232
MATH 272	Differential Equations	MATH 336
PHYS 171	Mechanics	PHYS 253
PHYS 172	Electricity and Magnetism	PHYS 273
ENGR 271	Engineering Mechanics: Statics	MEE 210
ENGR 272	Engineering Mechanics: Dynamics	MEE 211
*Satisfies NIU Foundational Studies Oral Communication Requirement.		
**Satisfies NIU Foundational Studies Writing Requirement.		
<b>[1]</b> 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 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.



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## College of Engineering and Engineering Technology

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### 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**:

ELE 210	Engineering Circuit Analysis
ELE 210U	Engineering Circuit Laboratory Project
ELE 250	Computer Engineering I
ELE 250U	Computer Engineering I Laboratory
ELE 315	Signals and Systems
ELE 330	Electronic Circuits
ELE 335	Theory of Semiconductor Devices I
ELE 340	Electrical Power Systems
ELE 356	Computer Engineering II
ELE 360	Communications Systems
ELE 370	Engineering Electromagnetics
ELE 380	Control Systems I
ELE 395	Electrical Engineering Junior Design
ELE 495 <b>AND</b> ELE 496	Senior Electrical Engineering Design I <b>AND</b> Senior Electrical Engineering Design II
ISYE 220	Engineering Economy
ISYE 335 <b>OR</b> STAT 300	Probability and Statistics for Engineers <b>OR</b> Introduction to Probability and Statistics
UEET 101	Introduction to Engineering
PHYS 283	Fundamentals of Physics III: Quantum Physics

### 15-18 semester hours of Technical Electives

In addition to the courses listed above, students are required to complete 15-18 hours of electives within CEET. Specific electives will be reviewed with student's assigned faculty advisor and academic catalog.

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### For More Information

#### Department of Electrical Engineering

CEET EB 330

Northern Illinois University

DeKalb, IL 60115-2854

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## College of Engineering and Engineering Technology

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](mailto: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 Heartland Community College**, contact Lauren Denofrio-Corrales, Instructional Chair of Science, at [lauren.denofrio@heartland.edu](mailto:lauren.denofrio@heartland.edu) or (309) 268-8639.

**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 2018.

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