



## Highland 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 Highland Community College

Courses at Highland Community College		Equivalent courses at NIU
*SPCH 191	Fundamentals of Speech	COMS 100
**ENGL 121	Rhetoric and Composition I	ENGL 103
**ENGL 122	Rhetoric and Composition II	ENGL 203
CHEM 123	General College Chemistry I	CHEM 210 and CHEM 212
INFT 190	Principles of Computer Science I	CSCI 240 ( <b>See CSCI department to adjust</b> )
MATH 168	Analytic Geometry and Calculus I	MATH 229
MATH 268	Analytic Geometry and Calculus II	MATH 230
MATH 269	Analytic Geometry and Calculus III	MATH 232
MATH 265	Differential Equations	MATH 336
PHYS 143	General Physics I	PHYS 253
PHYS 144	General Physics II	PHYS 273
PHYS 145	General Physics III	PHYS 283
PHYS 220	Mechanics (Statics and Dynamics)	MEE 209
PHYS 246	Introduction to Circuit Analysis	ELE 210 and ELE 210U
PHYS 120	Introduction to Engineering	UEET 101
*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 Highland CC advisor, verify general education requirements in the [NIU Undergraduate Catalog](#), and check the [NIU Community College Articulation](#)



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**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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### 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 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	Senior Electrical Engineering Design I
ELE 496	Senior Electrical Engineering Design II
ISYE 220	Engineering Economy
ISYE 335 OR STAT 300	Probability and Statistics for Engineers OR Introduction to Probability and Statistics

### 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  
(815) 753-9974

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.



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**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 Highland Community College,** contact  
Thedford Jackson, Transfer Coordinator/Academic Advisor, at (815) 599-3487 or [thedford.jackson@highland.edu](mailto:thedford.jackson@highland.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 2020.