



## City Colleges of Chicago 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 City Colleges of Chicago

Courses at City Colleges of Chicago		Equivalent courses at NIU
*SPEECH 101	Fundamentals of Speech Communication	COMS 100
**ENGLISH 101	Composition	ENGL 103
**ENGLISH 102	Composition II	ENGL 203
CHEM 201	General Chemistry I	CHEM 210 and CHEM 212
CIS 142 <b>AND</b> CIS 242	C-Based Programming Language <b>AND</b> Advanced C or C++ Language	CSCI 240 and CSCI 241 (only 240 required for ELE)
MATH 207	Calculus & Analytic Geometry I	MATH 229
MATH 208	Calculus & Analytic Geometry II	MATH 230
MATH 209	Calculus & Analytic Geometry III	MATH 232
MATH 210	Differential Equations	MATH 336
PHYSICS 235	Engineering Physics I: Mechanics and Wave Motion	PHYS 253
PHYSICS 236	Engineering Physics II: Electricity and Magnetism	PHYS 273
PHYSICS 215	Statics	MEE 210
PHYSICS 216	Dynamics	MEE 211
ENGR 215	Electrical Circuit Analysis	ELE 210 and ELE 210U
ENGR 111	Intro to the Engineering Profession	UEET 101
*Satisfies NIU Foundational Studies Oral Communication Requirement.		
**Satisfies NIU Foundational Studies Writing Requirement.		
[1] Only A.A. and A.S. degrees satisfy NIU's general education requirements.		

### General Education Requirements



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## College of Engineering and Engineering Technology

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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### 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 <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
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

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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.

**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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