NORTHERN ILLINOIS UNIVERSITY
College of Engineering and Engineering Technology
Bridging Theory with Practice

Lake Land 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 Lake Land College

Courses at Lake Land College		Equivalent courses at NIU
**ENG 120	Composition I	ENGL 103
**ENG 121	Composition II	ENGL 203
CHM 150	General Chemistry I	CHEM 210 and CHEM 212
MAT 151	C Programming w/ Engineering Applications	CSCI 240
MAT 241	Analytic Geometry and Calculus I	MATH 229
MAT 242 (and MAT 241)	Analytic Geometry and Calculus II (and Analytic Geometry and Calculus I)	MATH 230
MAT 243	Analytic Geometry and Calculus III	MATH 232
MAT 245	Differential Equations	MATH 336
PHY 140	University Physics I	PHYS 253
PHY 141	University Physics II	PHYS 273
PHY 239	Mechanics I	MEE 210
PHY 240	Mechanics II	MEE 211
**Satisfies NIU Foundational Studies Writing Requirement.		
[1] 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 Lake Land College advisor, verify general education requirements in the NIU Undergraduate Catalog, and check the NIU Community College Articulation Tables for transferability.

NORTHERN ILLINOIS UNIVERSITY
College of Engineering and Engineering Technology
Bridging Theory with Practice

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 491	Electrical Engineering Design Proposal
ELE 492 **OR** ELE 429	Electrical Engineering Design Project **OR** Biomedical Engineering Design Project
COMS 100	Fundamentals of Oral Communication
ISYE 220	Engineering Economy
ISYE 335 **OR** STAT 350	Probability and Statistics for Engineers **OR** Introduction to Probability and Statistics
PHYS 283	Fundamentals of Physics III: Quantum Physics
UEET 101	Introduction to Engineering

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

NORTHERN ILLINOIS UNIVERSITY
College of Engineering and Engineering Technology
Bridging Theory with Practice

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.

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 Lake Land College, contact: Counseling Services at (217) 234-5232 or counsel@lakeland.cc.il.us.

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.

Revised 2/23/2016