



# Black Hawk College and NIU CEET Transfer Guidelines for B.S. Degree in Mechanical Engineering

## The 2+2 Plan for Community College Students

The **Department of Mechanical 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 of Science (AS) Degree is highly recommended [1]. Students should always work closely with their community college advisor.

## Courses at Black Hawk College

Courses at Black Hawk College		Equivalent courses at NIU
*SPEC 101	Principles of Speech Communication	COMS 100
**ENG 101	Composition I	ENGL 103
**ENG 102	Composition II	ENGL 203
CHEM 101	General Chemistry I	CHEM 210 and CHEM 212
CS 121+ CS 225	Introduction to Computer Science	CSCI 240; see CSCI Department for adjustment
MATH 124	Calculus I w/ Analytic Geometry	MATH 229
MATH 225	Calculus II w/ Analytic Geometry	MATH 230
MATH 226	Calculus III w/ Analytic Geometry	MATH 232
MATH 235	Differential Equations	MATH 336
PHYS 201	General Physics	PHYS 253
PHYS 202	General Physics	PHYS 273
GE 101	Engineering Graphics and Geometry	MEE 270
GE 201	Analytic Mechanics Statics	MEE 210
GE 202	Analytic Mechanics Dynamics	MEE 211
GE 205	Elementary Mechanics of Deformable Bodies	MEE 212
*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

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



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transferability. Students are also required to fulfill a Human Diversity requirement, which may be fulfilled by a knowledge domain course.

### 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 **Mechanical Engineering**:

UEET 101/301	An Introduction to Engineering
MEE 320	Mechanism Design and Analysis
MEE 321	Mechanical Vibrations I
MEE 322 <b>OR</b> ELE 380	Dynamic Systems and Control I <b>OR</b> Control Systems I
MEE 330	Materials Science
MEE 331	Manufacturing Processes
MEE 340	Fluid Mechanics
MEE 350	Engineering Thermodynamics
MEE 352	Heat Transfer
MEE 380 <b>OR</b> MEE 381	Computational Methods in Engineering Design <b>OR</b> Computational Methods and Programming in Engineering Design
MEE 390	Experimental Methods in Mechanical Engineering I
MEE 430	Computer-Aided Design and Manufacturing
MEE 383	Engineering Analysis
MEE 470	Design of Machine Elements
MEE 485 <b>AND</b> MEE 486	Senior Mechanical Engineering Design I <b>AND</b> Senior Mechanical Engineering Design II
MEE 494	Mechanical Engineering Competency
ELE 210 <b>AND</b> ELE 210U	Engineering Circuit Analysis <b>AND</b> Engineering Circuit Laboratory Project
ISYE 220	Engineering Economy
ISYE 335 <b>OR</b> STAT 300	Probability and Statistics for Engineers <b>OR</b> Introduction to Probability and Statistics

**A total of 12-15 technical electives:**



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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.

### For More Information

#### Department of Mechanical Engineering

CEET EB 226  
Northern Illinois University  
DeKalb, IL 60115-2854  
(815) 753-9979

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 Black Hawk College**, contact: Cathryn Lass, Articulation Transfer Coordinator, at (309) 796-5474 or [lassc@bhc.edu](mailto:lassc@bhc.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 2018.

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