NORTHERN ILLINOIS UNIVERSITY
College of Engineering and Engineering Technology

Waubonsee Community 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 in Engineering Science (AES) Degree is highly recommended [1]. Students should always work closely with their community college advisor.

Courses at Waubonsee Community College

Courses at Waubonsee Community College		Equivalent courses at NIU
*COM 100	Fundamentals of Speech Communication	COMS 100
**ENG 101	First-Year Composition I	ENGL 103
**ENG 102	First-Year Composition II	ENGL 203
CHM 121	General Chemistry	CHEM 210 and CHEM 212
CIS 130 **AND** CIS 230	C++ Programming **AND** Advanced Topics in C++ Programming	CSCI 240 and CSCI 241 (only CSCI 240 required for MEE)
MTH 131	Calculus w/ Analytic Geometry I	MATH 229
MTH 132	Calculus w/ Analytic Geometry II	MATH 230
MTH 233	Calculus w/ Analytic Geometry III	MATH 232
MTH 240	Differential Equations	MATH 336
PHY 221	General Physics I	PHYS 253
PHY 222	General Physics II	PHYS 273
EGR 101	Engineering Graphics	MEE 270
EGR 220	Analytical Mechanics – Statics	MEE 210
EGR 230	Analytical Mechanics – Dynamics	MEE 211
*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 Waubonsee Community 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

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:**

MEE 212	Mechanics of Materials
MEE 320	Mechanism Design and Analysis
MEE 321	Mechanical Vibrations I
MEE 322 **OR** ELE 380	Dynamic Systems and Control I **OR** 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 **OR** MEE 381	Computational Methods in Engineering Design **OR** Computational Methods and Programming in Engineering Design
MEE 390	Experimental Methods in Mechanical Engineering I
MEE 430	Computer-Aided Design and Manufacturing
MEE 452	Design of Thermal Systems
MEE 470	Design of Machine Elements
MEE 481	Engineering Design Seminar
MEE 482	Senior Mechanical Engineering Design Project
MEE 494	Mechanical Engineering Competency
ELE 210	Engineering Circuit Analysis
ELE 210U	Engineering Circuit Laboratory Project
ISYE 220	Engineering Economy
ISYE 335 **OR** STAT 350	Probability and Statistics for Engineers **OR** Introduction to Probability and Statistics
UEET 101	Introduction to Engineering

A total of three technical electives from Group-A and Group-B, with at least two from Group-A:

Group-A: Design-oriented electives: MEE 351, MEE 382, MEE 410, MEE 421, MEE 422, MEE 423, MEE 424, MEE 425, MEE 426, MEE 427, MEE 431, MEE 432, MEE 433, MEE 451, MEE 453, MEE 454, MEE 455, MEE 480, MEE 484, MEE 490.

NORTHERN ILLINOIS UNIVERSITY
College of Engineering and Engineering Technology

Group-B: Other electives: ISYE 430, ISYE 431, ISYE 439, ISYE 450, ISYE 451.

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

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 Waubonsee Community College, contact: Counseling, Advising and Transfer Center at (630) 466-7900 ext. 2361 or counseling@waubonsee.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 2017.

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