

# Illinois Central 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 Illinois Central College**

Courses at Illinois Central College		Equivalent courses at NIU
**ENGL 110	Composition I	ENGL 103
**ENGL 111	Composition II	ENGL 203
CHEM 130	General Chemistry	CHEM 210 and CHEM 212
CMPSC 125	Programming in C++	CSCI 240 (See CSCI department to adjust)
MATH 222	Calculus and Analytic Geometry I	MATH 229
MATH 223	Calculus and Analytic Geometry II	MATH 230
MATH 224	Calculus and Analytic Geometry III	MATH 232
MATH 250	Differential Equations	MATH 336
PHYS 211	Engineering Physics: Mechanics	PHYS 253
PHYS 212	Engineering Physics: Electricity and Magnetism	PHYS 273
ENGR 113	Engineering Graphics/CAD	MEE 270
ENGR 251	Statics	MEE 210
ENGR 252	Dynamics	MEE 211
ENGR 253	Mechanics of Materials	MEE 212
ENGR 240	Engineering Circuit Analysis	ELE 210
ENGR 110	Introduction to Engineering	UEET 101
**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 Illinois Central College 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.

#### **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 320	Mechanism Design and Analysis	
MEE 321	Mechanical Vibrations I	
MEE 322 OR	Dynamic Systems and Control I  OR	
ELE 380	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	Computational Methods in Engineering Design OR	
MEE 381	Computational Methods and Programming in Engineering Design	
MEE 383	Engineering Analysis	
MEE 390	Experimental Methods in Mechanical Engineering I	
MEE 430	Computer-Aided Design and Manufacturing	
MEE 470	Design of Machine Elements	
MEE 485	Senior Mechanical Engineering Design I	
MEE 486	Senior Mechanical Engineering Design II	
COMS 100	Fundamentals of Oral Communication	
ELE 210U	Engineering Circuit Laboratory Project	
ISYE 220	Engineering Economy	

#### **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.

### **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 Illinois Central College, contact: Math, Science and Engineering Department, Room 320B, or (309) 694-5365.

**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.

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