

# Sauk Valley Community College and NIU CEET Transfer Guidelines for B.S. Degree in <u>Mechanical Engineering</u>

## 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 Sauk Valley Community College**

Courses at Sauk Valley Community College		Equivalent courses at NIU
*COM 131	Introduction to Oral Communication	COMS 100
**ENG 101	Composition I	ENGL 103
**ENG 103	Composition II	ENGL 203
CHE 105	General Chemistry I	CHEM 210 and CHEM 212
CIS 207	C++ Programming I	CSCI 240
MAT 203	Calculus & Analytic Geometry I	MATH 229
MAT 204	Calculus & Analytic Geometry II	MATH 230
MAT 205	Calculus & Analytic Geometry III	MATH 232
MAT 211	Differential Equations	MATH 336
PHY 211	Engineering Physics I	PHYS 253
PHY 212	Engineering Physics II	PHYS 273
EGR 103	Engineering Graphics	MEE 270
PHY 221	Mechanics I (Statics)	MEE 210
PHY 222	Mechanics II (Dynamics)	MEE 211
PHY 246 <b>AND</b> PHY 247	Introduction to Circuit Analysis <b>AND</b> Circuit Analysis Laboratory	ELE 210 and ELE 210U
EGR 270 <b>OR</b> PHY 210	Topics/Issues in Engineering <b>OR</b> Introduction to Engineering Profession	UEET 101
	oundational Studies Oral Communication Requies Oral Communication Requies Writing Requirement.	lirement.
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[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 SVCC 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.

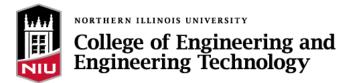
### Courses at NIU

Remaining classes to be taken at NIU's College of Engineering and Engineering Technology to earn a Bachelor of Science Degree in **Mechanical Engineering**:

hanics of Materials	
Mechanism Design and Analysis	
Mechanical Vibrations I	
Dynamic Systems and Control I OR Control Systems I	
Materials Science	
Manufacturing Processes	
Fluid Mechanics	
Engineering Thermodynamics	
Heat Transfer	
Computational Methods in Engineering Design OR Computational Methods and Programming in Engineering Design	
Engineering Analysis	
Experimental Methods in Mechanical Engineering I	
Computer-Aided Design and Manufacturing	
Design of Machine Elements	
Senior Mechanical Engineering Design I	
Senior Mechanical Engineering Design II	
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 Sauk Valley Community College, contact Academic Advising, Sauk Valley Community College, at 815-835-6354.

**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.

Revised 8/9/2019