

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

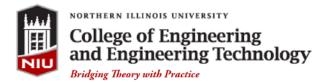
## The 2+2 Plan for Community College Students

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 Kankakee Community College**

| Courses at Kankakee Community College |  | Equivalent courses at NIU                |
|---------------------------------------|--|--|
| *SPCH 1553                            | Introductory Speech                                | COMS 100                                 |
| **ENGL 1613                           | English I  | ENGL 103                                 |
| **ENGL 1623                           | English II   | ENGL 203                                 |
| CHEM 1614                             | General Chemistry I                                | CHEM 210 and CHEM 212                    |
| COSC 2613                             | Computer Programming for Science and Engineering   | CSCI 240 (see CSCI department to adjust) |
| MATH 2515                             | Calculus & Analytic Geometry I                     | MATH 229                                 |
| MATH 2524                             | Calculus & Analytic Geometry II                    | MATH 230                                 |
| MATH 2534                             | Calculus & Analytic Geometry III                   | MATH 232                                 |
| MATH 2613                             | Differential Equations                             | MATH 336                                 |
| PHYS 2614                             | Physics I  | PHYS 253                                 |
| PHYS 2624                             | Physics II   | PHYS 273                                 |
| ENGR 1513                             | Engineering Graphics                               | MEE 270                                  |
| ENGR 2503                             | Statics  | MEE 210                                  |
| ENGR 2523                             | Dynamics   | MEE 211                                  |
| ENGR 2533                             | Mechanics of Materials                             | MEE 212                                  |
| ENGR 2613                             | Electrical Circuits and Networks                   | ELE 210 (see ELE department to adjust)   |
|                                       | Foundational Studies Oral Communication Require    | ement.                                   |
| [1] Only A.A. ar                      | nd A.S. degrees satisfy NIU's general education re | equirements.                             |

#### **General Education Requirements**



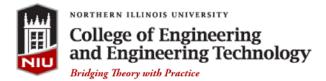
NIU's College of Engineering and Engineering Technology no longer requires special sequences in Social Sciences and Humanities. Therefore, students only need to satisfy NIU's general education requirements. When choosing general education ("knowledge domain") courses, please consult with your Kankakee CC 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<br><b>OR</b> | Dynamic Systems and Control I<br>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<br><b>OR</b> | Computational Methods in Engineering Design                       |  |
| MEE 381              | OR<br>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                           |  |
| ELE 210U             | Engineering Circuit Laboratory Project                            |  |
| ISYE 220             | Engineering Economy   |  |
| ISYE 335             | Probability and Statistics for Engineers                          |  |
| OR<br>STAT 350       | OR<br>Introduction to Probability and Statistics                  |  |
| UEET 101             | Introduction to Engineering                                       |  |
| <u>.</u>             | 1   |  |

**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 Associate of Engineering Science program at Kankakee Community College, contact Dr. Frederick Cooper, AES Program Administrator and Associate Dean of Math, Science and Engineering, at <a href="mailto:fcooper@kcc.edu">fcooper@kcc.edu</a> or 815-802-8758.

**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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