

## Engineering Transfer

### ► Contact Information

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### ► Delivery Methods

Face-to-Face: Wahpeton  
Online: Some Classes  
Combination

Engineers are innovators who take a fresh look at science and technology in order to apply old knowledge to finding solutions to new problems. Fields in engineering are expanding rapidly to meet the needs of society and advances in sciences.

An engineering schedule is difficult due to the number of classes taken within a semester and to the problem-oriented nature of the course work. It is estimated that for an incoming freshman class at a major university, only one-fourth of those students will receive a degree in engineering. Anyone who feels intimidated by a large school definitely should consider NDSCS to start their studies. Successful completion of the curriculum will allow the student to transfer to a four-year engineering program.

Students entering the Engineering transfer curriculum plan who do not have the proper prerequisites may need additional preparatory classes.

The Engineering plan provides preparation for the professional curriculum and meets the Liberal Arts Program Purposes listed in the *NDSCS Catalog*.

In addition to engineering, other programs that a student may transfer into are chemistry, physics, astronomy, geology, and mathematics.

| Course Code                   | Course Title  | Credits   |
|-------------------------------|---|-----------|
| CHEM 121                      | General Chemistry I   | 4         |
| CHEM 121L                     | General Chemistry I Laboratory  | 1         |
| CHEM 122                      | General Chemistry II  | 4         |
| CHEM 122L                     | General Chemistry II Laboratory   | 1         |
| COMM 110                      | Fundamentals of Public Speaking   | 3         |
| ENGL 110                      | College Composition I   | 3         |
| ENGL 120                      | College Composition II  | 3         |
| *ENGR 212                     | Fundamentals of Visual Communications   | 3         |
| FYE 101                       | Science of Success  | 1         |
| **MATH 165                    | Calculus I  | 4         |
| MATH 166                      | Calculus II   | 4         |
| MATH 265                      | Calculus III  | 4         |
| MATH 266                      | Introduction to Differential Equations  | 3         |
| PHYS 251                      | University Physics I  | 4         |
| PHYS 251L                     | University Physics I Lab  | 1         |
| PHYS 252                      | University Physics II   | 4         |
| PHYS 252L                     | University Physics II Lab   | 1         |
|                               | Computer Information Systems Elective   | 2         |
|                               | <i>Any course marked ND:COMPSC</i>  |           |
|                               | Humanities/History Electives  | 6         |
|                               | <i>From two different prefixes within the categories marked ND:HUM or ND:HIST</i> |           |
|                               | Recommended:  |           |
| PHIL 210                      | Ethics (3)  |           |
|                               | Social and Behavioral Science Electives   | 8         |
|                               | <i>From two or more prefixes within the category marked ND:SS</i>                 |           |
|                               | Recommended:  |           |
| ECON 201 or 202               | Principles of Microeconomics/Macroeconomics (3)                                   |           |
|                               | Wellness Elective   | 2         |
| <b>Total Required Credits</b> |   | <b>66</b> |

Engineering courses are offered by collaboration with University of North Dakota (UND) – Statics, Dynamics and Introduction to Engineering.

\*MATH 227 Applied Linear Algebra (3 credits) is recommended by both UND and NDSU as a course suited for students entering their Engineering Department.

This curriculum meets the North Dakota University System general education requirements as indicated in the *NDSCS Catalog* under the heading: NDUS General Education Transfer Agreement.

\*Offered even years.

\*\*What mathematic route a student takes will depend on their ACT or Accuplacer math score.

### Admission Requirements

The applicants must be high school graduates or equivalent. Applicants may be required to complete a basic skills evaluation during the admissions process.

### Award

Upon successful completion of the required courses, students will be awarded an Associate in Science degree in Liberal Arts.

Revised: May 2020