

## ASSOCIATE OF SCIENCE

# Pre-Engineering

Dakota College at Bottineau students who take pre-engineering courses before transferring to a four-year university will save money while having personal attention in the classroom. We provide students with a quality education in a caring environment, promoting engaged learning for employment and university transfer.

### Why study pre-engineering?

If you are interested in pursuing a bachelor's degree in engineering, the Pre-Engineering Partnership (PrEP) Program may be ideal for you. The PrEP Program is designed to facilitate your transition into an on-campus or online bachelor's degree program at UND. Through the PrEP Program, you may complete some of UND's introductory engineering courses while attending Dakota College at Bottineau and finishing your associate's degree. By completing pre-engineering courses prior to transferring to UND, you may be able to reduce the time and money it will take for you to graduate with your bachelor's degree.

### Career choices

- Aerospace engineer
- Automotive engineer
- Chemical engineer
- Electrical engineer
- Petroleum engineer
- Agricultural engineer
- Biomedical engineer
- Civil engineer
- Geological engineer
- Software engineer

### General education requirements

Typically, if you plan to transfer to an engineering bachelor's degree program from Dakota College at Bottineau, you will complete courses in math, basic science, English, humanities, and social studies as part of your college's general education and associate's degree requirements. At the same time you are taking these DCB courses, you also may enroll in UND-provided pre-engineering courses (100 and 200 level) to prepare for the upper-division engineering courses (300 level or above) that you will take as part of your UND bachelor's degree program.

### Core classes

Prior to being admitted to UND's professional engineering degree program and taking upper-division engineering courses, you must complete foundation courses in chemistry, English, engineering, math, and physics with a grade C or better. And what better place to take these courses than at DCB, where you will have small class room sizes, one-on-one interaction with your professors, and hopefully, will score great grades.



“ I enjoy the small class sizes at DCB. It allows me to receive one-on-one attention from all of my instructors. ”

– Zach Garrett  
Creighton, SK



**START SMALL...GO FAR**  
WITH DAKOTA COLLEGE AT BOTTINEAU

## COURSES REQUIRED

### Pre-Engineering (AS)

Freshman Year	Fall	Spring
CSCI 101 Introduction to Computers .....	3	cr
CHEM 121 General Chemistry I .....	4	cr
ENGL 110 College Composition I .....	3	cr
Fine arts/humanities elective .....	3	cr
MATH 165 Calculus I .....	4	cr
CHEM 122 General Chemistry II .....	4	cr
ENGL 120 College Composition II .....	3	cr
Fine arts/humanities elective .....	3	cr
MATH 166 Calculus II .....	3	cr
Social science elective .....	3	cr

Sophomore Year	Fall	Spring
MATH 265 Calculus III .....	4	cr
PHYS 251 University Physics I .....	5	cr
Social science elective .....	3	cr
Wellness elective .....	1	cr
Major study area .....	4	cr
COMM 110 Fund. of Public Speaking .....	3	cr
PHYS 252 University Physics II .....	5	cr
Wellness elective .....	1	cr
Major study area .....	5	cr

*All courses subject to change.*



## DAKOTA COLLEGE AT BOTTINEAU VISION

Dakota College at Bottineau is rooted in the past and grows towards the future by combining the best from the *Past, Present, and Future* to provide students with innovative educational opportunities. The campus will emphasize a knowledge and appreciation of *Nature*, implement a rapidly changing *Technology*, and prepare students to go *Beyond* and improve the quality of life.

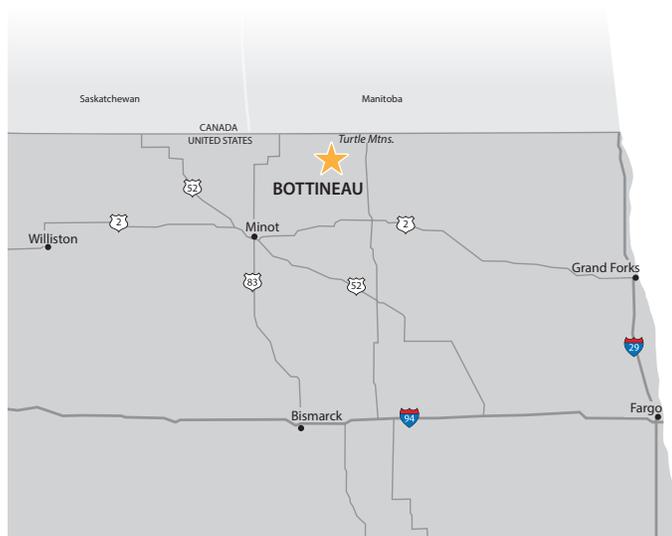
## CONTACT INFORMATION



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