

# Pre-Engineering Program



## Question

What abilities and interests does a career in engineering require?

## Answer

If you enjoy problem solving, are curious how things work, are detail-oriented, and like to be challenged, this area of study could be for you. Engineers use principles of science and mathematics to solve technical problems. Some engineers design and develop products such as chemicals or computers, while others work in testing, manufacturing or maintenance.

## Question

How can Bethel College prepare me for a career in engineering?

## Answer

Common majors of pre-engineering students are chemistry and mathematics. Some courses that are recommended for all pre-engineering majors are

- Chemistry I
  - Chemistry II
  - Computer Programming I
  - Computer Programming II
  - Principles of Macroeconomics
  - Calculus I
  - Calculus II
  - Multivariable Mathematics
  - Applied Mathematics for the Physical Sciences
  - Applied Statistics
- OR
- Mathematical Theory of Statistics
  - General Physics I & II
  - Thermodynamics
  - Analytical Mechanics



Additional courses are recommended for specific fields of engineering such as aerospace, civil, and mechanical engineering, chemical engineering, computer engineering, and electrical or nuclear engineering.

\* Bethel



Seek.  
Serve.  
Grow.

## Question

What is the dual-degree program?

## Answer

Bethel offers a dual-degree program for pre-engineering majors. Students who take this track complete all or most Bethel general education requirements and most of their major requirements in three years. They then transfer to any accredited engineering school. Upon completing all Bethel requirements and all the engineering school requirements, two baccalaureate degrees are awarded: one from the engineering school and one from Bethel, making you more competitive in the job market.

## Question

What can I expect after graduation?

## Answer

Bethel pre-engineering graduates have entered engineering fields such as:

- Mechanical
- Civil
- Chemical
- Aerospace
- Computer
- Industrial



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