

# Math & Engineering

AT BETHANY COLLEGE

## BACHELOR'S DEGREES IN MATHEMATICS AND 3+2 ENGINEERING

### What kind of people study mathematics?

People who love to solve:

- astronomy or space-travel problems
- physics or chemistry problems
- logistics or management problems
- crossword puzzles, riddles, and magic squares

People who are logical and:

- like to have things done in an orderly fashion
- like to know exactly why something is the correct answer

### Mathematics Program

The mathematics program at Bethany College provides an educational experience with instructors who have advanced degrees in mathematics with an emphasis in teaching; have years of successful teaching experience at various levels; and who strive to present material in a clear, orderly fashion and incorporate recent technology as both a presentation tool and as a tool for the student to use in assignments.

The most important function of our instructors is to be available to the student when the student needs assistance, not just during class. This may mean going over the material from a different aspect, providing additional background, reviewing material from previous courses, or conducting special help sessions before an exam. It means having an open-door policy and inviting students to call their instructors at home in the evenings. Our strength is that we know math and we want to help those who want to learn.

### Mathematics Mission Statement

The Mathematics Program provides its students with an undergraduate degree in mathematics, preparing them for mathematics careers. This education also enables students to develop skills required for graduate school in mathematics and enhances a life of faith, learning, and service.

### 3+2 Engineering Mission Statement

The 3+2 Engineering Cooperative Program will provide its students with an undergraduate education in mathematics and its application to pre-engineering multidisciplinary problems. This education would enable students to develop skills required for graduate work in engineering and enhance a life of faith, learning and service.

### 3+2 Engineering Program

The 3+2 engineering program is a cooperative agreement that enables a student to obtain a B.A. degree in mathematics from Bethany College and a M.S. degree in one of four engineering fields from Wichita State University (WSU) in only five years.

The first three years are completed at Bethany, where the student gains a liberal arts and science background while majoring in mathematics and satisfying the general education requirements. A minimum of 97 semester hours of college credit granted by Bethany is required to enter the advanced section of the program at WSU.

Upon completing the two-year engineering curriculum at WSU, the student receives both a B.A. from Bethany and a M.S. from WSU. The areas of engineering included in this program are: aerospace, mechanical, electrical and industrial engineering. More detailed information about the 3+2 engineering program is outlined in the Bethany College Academic Catalog.

## Career Opportunities

Some of our math graduates have developed careers in high school and middle school teaching. Others have found success in graduate studies in such areas as mathematics, psychology, business, meteorology, computer science, physics and astronomy.

Some have taken advantage of the tuition support of insurance companies and gone into actuarial sciences, which requires a bachelor's in mathematics.

Many Bethany students are now in high-level management positions because they are good problem solvers and good at human relations.

Graduates of the 3+2 engineering program are working in the aerospace industry with companies such as Boeing and Cessna, and are within the computer industry in the hardware and software areas, as well as in chemical manufacturing and automotive industry.

The Career Services Office provides students with support and resources throughout the career-development process. The staff is prepared to help in the selection of career options and academic majors as well as with internship placement and volunteer-service placement. The office also provides assistance with resume writing, preparation for interviews, and other elements of both summer jobs and permanent employment.

# Math & Engineering

AT BETHANY COLLEGE

## What Courses are Available?

Core Courses Typically Taken Include:

MA130/230/231 Analytic Geometry and Calculus I, II, & III.....	12 hrs
MA350 Differential Equations.....	3 hrs
MA360 Linear Algebra.....	3 hrs
MA342 Discrete Mathematics.....	3 hrs
MA361 Abstract Algebra.....	3 hrs
MA390 Real Analysis.....	3 hrs

Supporting Courses May Include:

PH201/202 University Physics I & II.....	8 hrs
CH110/111 General Chemistry I & II (or CH110H Honors).....	8 hrs
CS223 Principles of Programming I.....	3 hrs

## Contacting Math and Engineering Faculty:

**Assistant Professor Adebajo Oriade, Ph.D.**

Physics  
Office: Nelson Science Hall, Rm. 7  
(785) 227-3380, ext. 8149  
E-mail: [banjo@bethanylb.edu](mailto:banjo@bethanylb.edu)

**Assistant Professor Na Peng, Ph.D.**

Mathematics  
Office: Nelson Science Hall, Rm. 214  
(785) 227-3380, ext. 8182  
E-mail: [pengn@bethanylb.edu](mailto:pengn@bethanylb.edu)

## Academic Advising and Faculty

Your success in college depends on a close relationship with your academic advisor. At Bethany College, the academic advisor is an active partner with the student in designing an interesting and challenging academic program, encouraging the growth and development of gifts and talents to a higher level, and providing personal and professional support beyond graduation.

## Come visit us!

Let us talk with you about our program, show you around and treat you to lunch! Call our admissions office to set up an appointment.



OFFICE OF ADMISSIONS  
(800) 826-2281 OR  
(785) 227-3380, EXT. 8113  
FAX: (785) 227-8993

EMAIL: [admissions@bethanylb.edu](mailto:admissions@bethanylb.edu)  
WEB SITE: [www.bethanylb.edu](http://www.bethanylb.edu)

### Fast Facts

**About Bethany:** a four-year, undergraduate liberal arts-based college with a blend of professional programs

**Location:** Lindsborg, Kan.; 20 miles southwest of Salina, 70 miles north of Wichita, and 200 miles west of Kansas City; within a seven hour drive of St. Louis, Oklahoma City, Tulsa, Dallas, Denver, Omaha, and Sioux City.

**Founded:** 1881 by Swedish-Lutheran settlers

**Religious Affiliation:** Evangelical Lutheran Church in America (ELCA)

**Degrees and Programs:** 40 academic discipline majors and programs of study, 11 education majors within various academic disciplines, and contract majors

**Enrollment:** About 600 students from 30 states and 14 foreign countries

**Student-Faculty Ratio:** 10:1; average class size is 12

**Athletics:** 18 National Association of Intercollegiate Athletics (NAIA) varsity sports

**Accreditation:** Accredited by the Higher Learning Commission and a member of the North Central Association  
[www.ncahigherlearningcommission.org](http://www.ncahigherlearningcommission.org)  
800-621-7440

**Bethany Mission Statement:** The mission of Bethany College is to educate, develop and challenge individuals to reach for truth and excellence as they lead lives of faith, learning and service.