

Biology, Chemistry & Pre-Health

AT BETHANY COLLEGE

BACHELOR'S DEGREES IN BIOLOGY & CHEMISTRY

At Bethany College the biology, chemistry, and pre-health curricula require coursework in biology, chemistry, math, and physics. The biology program develops knowledge in cell and molecular biology, organismal biology, and principles governing ecological patterns and relationships.

The chemistry program involves study of organic and biochemical reaction mechanisms, standard methods of analysis and modern instrumental methods, and fundamental studies of reaction energies and molecular structure.

From both programs, you acquire the skills necessary to investigate natural phenomena in the field and laboratory and learn how to communicate these findings to others.

Students interested in pre-health programs, including medicine, veterinary, physical therapy, pharmacy, and dentistry, often major in biology, chemistry, or both. Your pre-health curriculum depends on your area of interest and the professional schools to which you plan to apply.

The biology and chemistry department features small class sizes so you get personal attention from faculty members in both lecture and laboratory settings. We provide access to current technology and instrumentation so our graduates have a working knowledge of equipment commonly used in industrial, medical, and academic research laboratories.

Many students observe physicians, physical therapists, pharmacists, and other professionals through our Experience-Based Education program.

Biology Mission Statement:

The mission of the Bethany College Biology Program is to prepare students for continued study in professional health schools, graduate schools, or for entry-level positions requiring biological and laboratory knowledge and skills.

Chemistry Mission Statement:

The Chemistry Program provides a challenging and supportive environment in which students develop the skills and knowledge pertaining to the scientific method, the fundamental principles of chemistry, and scientific communication.

Bethany biology and chemistry majors acquire the skills necessary to investigate natural phenomena in the field and laboratory and learn how to communicate these findings to others.

We recommend undergraduate research experiences. Students have recently done summer research in field ecology, pharmacology, and chemistry in research laboratories and worked with exotic animals in zoological and natural settings. Students learn leadership and communication skills by participating in the Bio-Chem Club and Bethany College Tri-Beta chapter. These groups participate in community service projects, sponsor trips, and host guest speakers.

Career Opportunities

Graduates of the biology and/or chemistry curricula are prepared for graduate or professional schools in:

- Medicine
- Dentistry
- Pharmacy
- Physical therapy
- Veterinary
- Related fields of study

The biology program also prepares students for entry-level careers in science- and technology-related fields, including:

- Environmental science
- Pharmaceuticals
- Laboratory science

The chemistry curriculum also prepares graduates for a wide variety of careers, including those involving:

- Medical research
- Drug discovery
- Environmental agencies
- Materials science
- Food science
- Chemical engineering

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.

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What Courses are Available?

Core Courses Typically Taken Include:

BI124/125	Introductory Biology I & II	8 hrs
BI320	Microbiology	4 hrs
BI360	Genetics	4 hrs
BI330	Comparative Anatomy	4 hrs
BI335	Vertebrate Physiology	4 hrs
BI340	Histology	4 hrs
BI222	Medical Terminology	3 hrs
BI343	Immunology	3 hrs
BI345/CH345	Scientific Research and Writing	3 hrs
CH110/111	General Chemistry I & II	8 hrs
CH330/331	Organic Chemistry I & II	8 hrs
CH320/321	Analytical Chemistry I & II	8 hrs
CH350/351	Physical Chemistry I & II	6 hrs
CH360	Biochemistry	3 hrs
CH360L	Biochemistry Laboratory	1 hrs

Supporting Courses May Include:

PH201/202	University Physics I & II	8 hrs
MA130/230	Analytic Geometry and Calculus I & II	8 hrs

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.

Contacting Biology and Chemistry Faculty:

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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

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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
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.