

Colleges, Schools, Religious Education, and Undergraduate Education

College of Biology and Agriculture

301 WIDB
(801) 422-3963
Internet: <http://bioag.byu.edu>

Dean: Rodney J. Brown, Professor, Nutrition, Dietetics, and Food Science

Associate Dean: John D. Bell, Professor, Physiology and Developmental Biology

Associate Dean: Alan R. Harker, Professor, Microbiology and Molecular Biology

Assistant Dean: John D. Lee

Assistant Dean: Steven L. Taylor

The following departments are included within the College of Biology and Agriculture:

Integrative Biology (InBio)
Microbiology and Molecular Biology (MMBio)
Nutrition, Dietetics, and Food Science (NDFS)
Physiology and Developmental Biology (PDBio)
Plant and Animal Sciences (PAS)

Courses offered in biology give students a general understanding of the fundamental principles of plant, animal, and microbial life and their relationship to the world. Specialized courses emphasizing teaching and research are offered to majors in the several branches of biological science.

Agricultural sciences address three of the great dilemmas facing mankind in the twenty-first century: harnessing biological technology to meet the needs of an expanding human population; assessing and minimizing the impact of human activities on an increasingly vulnerable environment; and adapting urban landscapes to meet increasing water, space, and other resource limitations.

Alphabetical List of Majors Offered in the College of Biology and Agriculture

Bio-Agribusiness Management: Agricultural Management Emphasis (PAS)
Bio-Agribusiness Management: Biotechnology Business Emphasis (PAS)
Bioinformatics (InBio)
Biology (Biol)
Biology Composite Teaching (InBio)
Biophysics (PDBio)
Clinical Laboratory Science (MMBio)
Dietetics (NDFS)
Environmental Science (PAS)
Food Industry Management (NDFS)
Food Science (NDFS)
Genetics and Biotechnology (PAS)
Integrative Biology (InBio)
Landscape Management (PAS)
Microbiology (MMBio)
Molecular Biology (MMBio)
Nutritional Science (NDFS)
Physiology and Developmental Biology (PDBio)
Plant Biology (PAS)
Wildlife and Wildlands Conservation (PAS)

See the departmental sections in this catalog for details regarding these programs.

Office of Academic Advisement

Marla Allred, Supervisor
379 WIDB
(801) 422-3042
Hours: 8:00 a.m. to 5:00 p.m., Monday–Friday

The goal of the Office of Academic Advisement is to support a student's academic progress from orientation through graduation. The office maintains student records; assists students with general education questions, registration, major declaration, academic planning, and graduation clearance; and clarifies policies and procedures of the college and university. Students will find it well worth their time to take advantage of these services.

Office of College Life

Audrey Megerian, Coordinator
380 WIDB
(801) 422-3043
Hours: 8:00 a.m. to 5:00 p.m., Monday–Friday

The purpose of the Office of College Life is to create an enriching and supportive atmosphere to help students reach their potential. Some of the responsibilities are new-student orientation, internships, mentoring, scholarships, the Student Council, clubs, and promoting a Zion effort designed to unify the students.

Preveterinary Medicine

Beverly L. Roeder, Advisor
386 WIDB
(801) 422-6873

Students interested in veterinary medicine are encouraged to incorporate required preveterinary curriculum into an academic program of their choosing. See the description of the biology major for additional information.

Ezra Taft Benson Agriculture and Food Institute

Allen C. Christensen, Director
110 B-49

The mission of the Benson Institute is to raise the quality of life among the people of the world through improved nutrition and enlightened agricultural practices. Cooperating with universities in the developing world, the institute emphasizes developmental research in village nutrition and agricultural production directed toward promoting self-reliant traditional families.

M. L. Bean Life Science Museum

Larry St. Clair, Director
Jack Sites, Associate Director
Marta Adair, Assistant Director
290 MLBM
Internet: <http://bioag.byu.edu/mlbean/>
Hours: 10:00 a.m. to 9:00 p.m. Monday–Friday
10:00 a.m. to 5:00 p.m. Saturday

Current museum curators and collection managers are as follows:

Duane Atwood, Collections Manager, Herbarium
John Bell, Curator of Mollusks
Lee Braithwaite, Curator of Marine Invertebrates
Shawn Clark, Collections Manager, Arthropods
Keith Crandall, Curator of Crustaceans

Leigh Johnson, Curator, Herbarium
Duke Rogers, Curator of Mammals
Dennis Shiozawa, Curator of Fish
Jack Sites, Curator of Reptiles and Amphibians
Wesley Skidmore, Collections Manager, Vertebrates
Larry St. Clair, Curator of Nonvascular Cryptogams
Clayton White, Curator of Birds
Michael Whiting, Curator of Insects

The museum offers a broad range of educational opportunities for students, from specialized graduate and undergraduate research in the various systematic collections housed in the museum to impromptu tours for the casual visitor. Many university classes utilize the extensive holdings, but the museum also serves the community by providing educational opportunities for elementary and secondary schools as well as civic groups.

The Botanical Collection includes herbaria of vascular plants and nonvascular cryptogams from many parts of the world. The vascular plant collection includes more than 10,000 species represented by more than 500,000 herbarium sheets. The collection is made up principally of plants from western North America but includes many materials from the eastern states, Europe, Mexico, Australia, and the Pacific Isles. Acquisitions of plants from Alaska, Greenland, Siberia, and the Canadian Arctic have added significantly to the collections of Arctic plants. Nonvascular cryptogams number more than 100,000 specimens, mostly from western North America.

The herbarium includes more than 2,000 specimens from the Mediterranean region of Europe and from the Middle Eastern countries of Iran and Afghanistan. The fossil plant collections contain more than 10,000 specimens.

The Zoological Collections consist of a large series of vertebrate and invertebrate species from North America and from many foreign countries. These materials are available to teachers, advanced students, and visiting scientists.

The invertebrate collection includes more than two million insect specimens (emphasizing butterflies, flies, and beetles) and their near relatives as well as other invertebrate phyla. Medically important arthropods such as fleas, lice, mites, and ticks are well represented. A large and valuable collection of invertebrate sea shells is also present, as well as more than 5,000 crustaceans. The invertebrate collections are a sampling of specimens from all parts of the world but are particularly strong in their representation of the environments of the Great Basin.

The vertebrate collections consist of more than 100,000 fish, 37,000 amphibians and reptiles, 11,000 birds, and 37,000 mammal research specimens. The vertebrate collections also include birds' eggs, South and Central American birds, and Hawaiian fishes. Staff members, graduate students, and friends of the university have contributed material from Mexico, South America, Africa, Taiwan, Malaysia, the South Pacific islands, and other areas. The vertebrate collections also include big game wildlife gathered from around the world.

More than 50,000 invertebrate and vertebrate museum specimens include frozen tissues or tissues preserved in ethanol.

A highlight of the vertebrate display collection is the most complete accumulation of live mounted waterfowl and pheasants in the world. A synoptic collection of the vertebrates of Utah is displayed on the first floor.

The botanical and zoological collections housed in the museum are a valuable university resource and document phylogenetic and systematic research.

The museum is accredited by the American Association of Museums and maintains membership in national and regional professional museum organizations.

The Lytle Preserve in southwestern Utah provides a 600 plus acre area as an outdoor classroom in the northernmost extension of the Mojave Desert. It is managed for natural study and ecological research in a unique desert setting.

Ira A. Fulton College of Engineering and Technology

270 CB
(801) 422-4326

Dean: Alan R. Parkinson, Professor, Mechanical Engineering

Associate Dean: David K. Anthony

Associate Dean: John N. Harb, Professor, Chemical Engineering

Associate Dean: Spencer P. Magelby, Professor, Mechanical Engineering

The Ira A. Fulton College of Engineering and Technology is accredited under the Accreditation Board for Engineering and Technology (ABET) for all engineering and technology programs. The men and women who have graduated from our college will be prepared for entry into the finest graduate schools or workplaces. The mission of the Fulton College is to develop men and women of faith, character, and technical ability who will become outstanding leaders throughout the world.

Alphabetical list of majors offered in the College of Engineering and Technology:

- Chemical Engineering (Ch En)
- Civil and Environmental Engineering (CE En)
- Construction Management (CM)
- Electrical and Computer Engineering (EC En)
- Facilities Management (FM)
- Industrial Design (InDes)
- Information Technology (IT)
- Manufacturing Engineering and Technology (Mfg)
- Mechanical Engineering (Me En)
- Technology Teacher Education (TTE)

Minors offered in the College of Engineering and Technology:

- Information Technology (IT)
- Manufacturing (Mfg)

See the department sections in this catalog for details regarding these programs or go to <http://www.et.byu.edu>.

College Advisement Center (CAC)

Pamela O. Williamson, Supervisor
Judith Ann Benedict, Advisor
264 CB
(801) 422-4325

The college advisement center advisors are available to assist students with academic planning and information about majors, the university core, changing majors, application for graduation, scholarships, and university policies and procedures.