

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

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**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.