

WHAT YOU CAN DO WITH A MAJOR IN...

# biology

**B**iology is the science of life. Biologists study the development, structure, function, environment and interactions of plants, animals and microorganisms to help us understand ourselves and our planet.

A wide range of interests are embodied within biological sciences. Work places for biologists are as varied as the opportunities. Universities, zoos, hospitals, research foundations, and the government are just a few of the employers that hire biologists. In addition, laboratory locations may range from tropical forests to the Antarctic, from outer space to the ocean depths.

Generally, those majoring in biology enter graduate school to obtain training in a sub-discipline of biology, or enter professional programs specializing in one of the health care professions such as medicine, veterinary medicine, physical therapy, or pharmacology.

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## ...at chapman university

**T**he department of Biological Sciences prepares students to pursue the diverse fields of biology and supporting sciences. The department provides a curriculum that prepares students for a broad range of careers.

Students may pursue a Bachelor of Science in biological sciences, a major designed for students interested in careers in the health professions (medicine, physical therapy, dentistry, pharmacology, occupational therapy, podiatry, optometry), biotechnology, veterinary medicine, environmental biology, or marine biology. The Bachelor of Sciences major offers three areas of emphasis: biomolecular science, exercise physiology, and organismal biology.

### Chapman Clubs and Organizations

**Student Scientific Society** [www.chapman.edu/wcls/clubs/sss.asp](http://www.chapman.edu/wcls/clubs/sss.asp)

The focus of the organization is threefold: service, scholarship, and social.

Students from all science disciplines participate in service, scholarship, and social opportunities each semester.

### Related Majors

Psychobiology, Environmental Science,  
Chemistry, Food Science and Nutrition,  
Psychology

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### While Still in College...

If you are looking to pursue biology after college, it is a good idea to get involved with on-campus research and presentation of material and participate in community projects, volunteer at a local hospital, or do an internship in a biology related field.

## ...at the professional level

Associations provide a venue for people to share professional interests while educating the public about their field. Look for details about salaries, training opportunities, membership benefits, and job resources.

### **American Institute of Biological Science (AIBS)**

[www.aibs.org/index.html](http://www.aibs.org/index.html)

Facilitates communication and interaction among biologists, biological societies, and biological disciplines in order to serve and advance the interests of organismal and integrative biology in the broader scientific community and other components of society on issues related to research, education, and public policy.

### **Federation of American Societies for Experimental Biology (FASEB)** [www.faseb.org](http://www.faseb.org)

A coalition of independent member societies that serve to enhance the ability of biomedical and life scientists to improve, through their research, the health, well-being, and productivity of all people.

### **National Association of Biology Teachers (NABT)** [www.nabt.org](http://www.nabt.org)

Works to empower educators to provide the best possible biology and life science education for all students and help them to share expertise with colleges around the globe, keep up with trends and developments in the field, and grow professionally.

### **Society for Developmental Biology (SDB)**

<http://sdb.bio.purdue.edu/index.html>

Brings together educators and researchers pioneering the exploding fields of developmental biology, developmental genetics, embryonic stem cell research, genomics, birth defects, cancer and human disease.

## Is It a Good Match For You?

Do you enjoy science?

Do you enjoy lab work or research?

Do you have the ability to perform ambiguous and abstract tasks?

Do you enjoy solving problems?

Do you enjoy doing things by the scientific method?

## Vital Skills

Ability to conduct research and experiments

A good grasp of scientific methods

Ability to collect and analyze data

## Potential Employment With...

Educational Institutions, Medical Clinics, Laboratories, Government Agencies (e.g., Department of Agriculture, Department of Interior, Environmental Protection Agency), National Institutes of Health, Hospitals, Medical/Technical Libraries, Museums, National & State Parks, Professional and Technical Journals, Research and Development Firms, Zoological or Botanical Gardens, Zoos, Fisheries, Pharmaceutical Companies, Aquariums

## Related Occupations

*Some of these occupations may require additional education and training.*

### Science

Agronomist  
Bacteriologist  
Biochemist  
Bioengineer  
Biomedical Engineer  
Biometrician  
Biophysicist  
Ecologist  
Meteorologist  
Microbiologist  
Molecular Biologist  
Mycologist  
Nematologist  
Neurobiologist  
Parasitologist  
Science Teacher  
Science Writer/Editor  
Toxicologist

### Medicine

Anatomist  
Cardiovascular Technologist  
Dentist  
Drug Researcher  
Embryologist  
Geneticists/Genetic Engineer  
Immunologist  
Medical Illustrator/Photographer  
Medical Librarian  
Medical Pathologist/Technologist  
Nutritionist  
Optometrist  
Osteopath  
Pharmaceutical Sales  
Pharmacist/Pharmacy Technician

## Choosing Your Major...

Choosing a major can be a difficult decision. If you need assistance in choosing your major or emphasis, the Career Development Center offers individual career counseling and provides career testing and assessment for current students. In addition, involvement in leadership activities, internships, part-time employment, clubs, organizations, and student government will expose you to different work and learning environments which will aid you in your decision making.

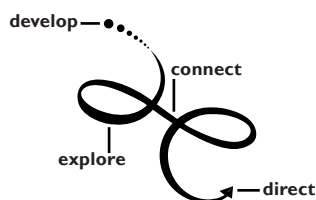
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## For Further Information

Wilkinson College of Letters and Sciences, Department of Biology

[www.chapman.edu/wilkinson/biosci/](http://www.chapman.edu/wilkinson/biosci/)

(714) 682-7255 • Janeen Hill, Chair



Career Development Center

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