

What is Biomedical Sciences?

Biomedical Sciences is the broad field of applied biology as related to animal and human health and disease. It involves the study of structure and function from the molecular to systemic level.

Program Strengths

- ◆ Small program size: With only 300 students, every student receives individual and personalized attention from faculty members, academic advisers and career counselors who mentor and guide students through the program of study.
- ◆ Unique undergraduate opportunity to work directly with cadavers in human and animal gross anatomy courses.
- ◆ Undergraduate research opportunities in broad areas such as cardiovascular physiology, neurobiology, and reproductive physiology.
- ◆ Curriculum provides cohesive succession of courses beginning with freshman physiology, then moves to foundational physiology, and culminates with a senior capstone experience integrating course material using pathophysiological mechanisms.
- ◆ Active student organization within the department which provides leadership, community service, social, and career exploration opportunities.

Information about the Biomedical Sciences program can be found at:

www.cvmb.colostate.edu/bms/

For additional information,
please contact:

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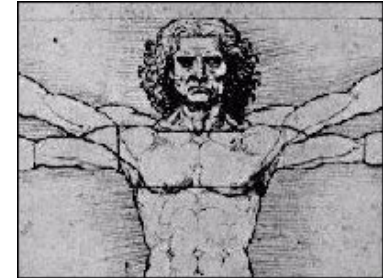


**College of Veterinary Medicine
and
Biomedical Sciences**

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Colorado State University
Fort Collins, CO 80523-1680

**Colorado
State
University®**

Knowledge to Go Places



**Biomedical Sciences
Major**

Department of Biomedical Sciences

College of Veterinary Medicine
and Biomedical Sciences

What can you do with a Biomedical Sciences degree?

A Biomedical Sciences degree is good preparation for pursuing:

- ◆ Graduate Studies in areas such as physiology, neuroscience, morphology, and pathology
- ◆ Veterinary Medicine
- ◆ Medicine
- ◆ Programs in Allied Human Health Professions such as dentistry, physician assistant, pharmacy, chiropractic medicine, physical therapy, and optometry

Other career opportunities include, but are not limited to:

- ◆ Biomedical science-related positions associated with health and disease in sales, marketing, and research management
- ◆ Laboratory research related to health issues such as heart disease and stroke, cancer, infectious diseases, and chronic neurological diseases
- ◆ Work in health-related companies such as biotechnology, pharmaceuticals, and medical devices

Foundational Courses

- ◆ General Biology & Lab (LIFE 102)
- ◆ Introduction to Biomedical Sciences (BMS 260)
- ◆ General Chemistry & Labs (CHEM 111,112 and CHEM 113,114)
- ◆ Organic Chemistry & Lab (CHEM 341, CHEM 343, and CHEM 344)
- ◆ Biochemistry (BC 351)
- ◆ General Physics & Labs (PH 121 and PH 122)
- ◆ General Microbiology & Lab (MIP 300 and MIP 302)
- ◆ Calculus (MATH 155 or MATH 160)
- ◆ Statistics (STAT 301 or STAT 307)
- ◆ Eukaryotic Cell Biology & Lab (LIFE 210 and LIFE 212)

Biomedical Sciences Courses

- ◆ Fundamentals of Physiology & Lab (BMS 360, 302)
- ◆ Human Gross or Microscopic or Domestic Animal Gross Anatomy (BMS 301 or BMS 330 or BMS 305)
- ◆ Capstone Course in Pathophysiology (BMS 460)
- ◆ Capstone Seminar (BMS 492)
- ◆ Directed electives will be chosen by the student to gain specialized skills within areas of biomedical sciences that are tailored to the student's interests and goals. Courses could include:
 - ◆ Neurobiology, endocrinology, pharmacology, advanced physiology, advanced anatomy, specialty physiology (such as cardiopulmonary), domestic animal or human anatomy dissection
 - ◆ Other approved courses outside departmental offerings