CARE FOR YOUR WORLD
START HERE FOR CAREERS IN HEALTH AND MEDICINE

Colorado State University
COLLEGE OF VETERINARY MEDICINE AND BIOMEDICAL SCIENCES
Helping animals, people, and the planet
Our majors launch careers in health and medicine. While you’re training to care for our world, we will care for you — by providing expertise, experiences, and helpful student services.
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You’ll study alongside nearly 900 other motivated young scientists. Many will go on to professional degree programs, like medical school, veterinary school, dental school, or pharmacy school. Others will pursue graduate studies – or jump directly into careers.

Hands-on experiences set our students apart: You’ll gain from amazing opportunities in internships and undergraduate research, with mentorship from top scientists in their fields worldwide.

You’ll be in a college with notable expertise. You’ll find challenging coursework, talented peers, attentive advisors, and caring and accomplished professors – all on a welcoming campus at the foot of the Rocky Mountains.

Check out these signs of excellence in our college!

4 PROGRAMS OF RESEARCH & SCHOLARLY EXCELLENCE

Musculoskeletal Research | Neuroscience | Prions | Reproduction

FOUNDED IN 1907

The College of Veterinary Medicine and Biomedical Sciences is a foundational part of CSU – a top-tier university with annual research expenditures of about $320 million. Colorado State is ranked No. 58 among public universities nationwide for academic programs. (2015 Best Colleges, U.S. News & World Report)

MEDICAL SCHOOL & VETERINARY SCHOOL ARE DESTINATIONS FOR MANY OF OUR STUDENTS

#3 RANKED

VETERINARY SCHOOL IN THE NATION
(U.S. NEWS & WORLD REPORT)

9 CURRENT BEST TEACHERS, UNIVERSITY DISTINGUISHED PROFESSORS & TEACHING SCHOLARS

$400,000 IN SCHOLARSHIPS AWARDED YEARLY TO MORE THAN 100 STUDENTS IN OUR MAJORS
WE HELP YOU EXCEL
Our undergraduates benefit from scientific expertise in classrooms and laboratories alike; many enrich their educations through participation in the University Honors Program, international studies, and undergraduate research.

CHECK OUT THESE CAREER FIELDS!

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GET IN TOUCH!
Phone - (970) 491-6408
Website - www.cvmbs.colostate.edu/undergrad
College tours - kristen.p.brown@colostate.edu
General info - cvmbs@colostate.edu
AS AN UNDERGRADUATE, YOU’LL HAVE ACCESS TO:

- A major advisor to guide you in completing your degree.
- A health-professions advisor – providing additional guidance if you want to prepare for veterinary school, medical school, or another professional school.
- A student organization for each major:
  - Biomedical Student Association
  - Environmental Health Student Association
  - Microbiology Student Association
  - Neuroscience Student Organization
- Health profession clubs for students interested in careers in health and medicine. These include:
  - Premedica, Pre-Veterinary Club,
  - Pre-Pharmacy Club,
  - Pre-Dental Club, and
  - Pre-Optometry Club.

**MICROBIOLOGY**
- Bacteriology
- Biodefense
- Bioinformatics
- Biotechnology
- Disease Diagnostics
- Epidemiology
- Food & Beverage Industries
- Human Medicine
- Immunology
- Laboratory Careers
- Physician Assistant
- Public Health
- Quality Control
- Research
- Science Teaching
- Veterinary Medicine
- Virology

**NEUROSCIENCE**
- Audiology
- Human Medicine
- Linguistics
- Neuroimaging
- Neurology
- Neuropsychology
- Neurosurgery
- Occupational Therapy
- Research
- Pharmaceutical Sales
- Psychiatry
- Psychology
- Psychometrics
- Psychiatric Nursing
- Speech Pathology
- Veterinary Medicine

**ADVISOR EMAIL ADDRESSES**
- Biomedical Sciences - kelly.swetich@colostate.edu, sarah.maddox@colostate.edu
- Environmental Health - erin.reichert@colostate.edu
- Microbiology - lisa.mccann@colostate.edu
- Neuroscience - phillip.quirk@colostate.edu
In this program, you’ll learn how the broad field of biology is applied to human health, veterinary medicine, and disease.

You’ll receive personalized attention and support from professors and advisors. With this encouragement, you’ll graduate with a comprehensive understanding of the cells and systems that maintain human and animal health. This knowledge provides a foundation for many careers in health and medicine.

More than 60 percent of our students go on to graduate studies or professional degree programs, such as medical school and veterinary school. Others go directly into careers related to health and medicine.
BIOMEDICAL SCIENCES: YOUR STUDIES

During your first two years, you’ll be immersed in foundational basic sciences, including biochemistry, biology, chemistry, mathematics, and physics.

Then you’ll move into comprehensive study of human or animal anatomy, neuroanatomy, and physiology.

During your junior and senior years, you’ll be presented with an array of specialized topics, including reproductive physiology, cardiopulmonary physiology, neurobiology, pathophysiology (the biological basis of disease), endocrinology (the study of hormones), and pharmacology.

Our world-class human and animal anatomy curriculum goes beyond structure; you’ll learn how structure relates to function, health, and disease. Our outstanding neuroanatomy curriculum highlights the complex structures of the brain and spinal cord.

4:1
STUDENT-TO-CADAVER RATIO
THAT MEANS MORE ANATOMY LEARNING.

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MAJOR IN ENVIRONMENTAL HEALTH
DEPARTMENT OF ENVIRONMENTAL & RADILOGICAL HEALTH SCIENCES

This major prepares you for the branch of public health that studies how biological, chemical, and physical factors impact human health and disease. We study these factors in natural and built environments. Your training will help you prevent injury and disease by managing environmental hazards and promoting healthier air, water, soil, homes, workplaces, and communities.

We offer the only undergraduate program in environmental health in Colorado, and one of just 31 in the country accredited by the National Environmental Health Science and Protection Council.

In your junior and senior years, you will take part in a networking event with more than 50 environmental health professionals from across the nation; you'll learn about a variety of internships and careers.

ENVIRONMENTAL HEALTH: YOUR STUDIES
You'll receive hands-on training through a required internship during your senior year – an opportunity to apply your skills in a real-world setting.

Before that, you'll focus on foundational science, with classes in biochemistry, biology, calculus, chemistry, microbiology, organic chemistry, physics, physiology, and statistics. Moving into upper-division coursework, you'll study epidemiology, environmental sampling methods, industrial hygiene, radiation biology, toxicology, waste management, and food and water safety.

Your junior year includes a seminar in professional skills; this leads to the senior internship. But you don’t have to stop at one! Many students complete two or three internships in both private industry and public health – receiving great training, preparation for graduate or professional school, and contacts that help with job-hunting.

HIGHLIGHTS
ONLY UNDERGRADUATE PROGRAM IN COLORADO
ACCREDITED >40 YEARS
SENIOR INTERNSHIP
FIELD-BASED ACTIVITIES
5-YEAR DUAL DEGREE PROGRAM WITH A MASTER’S IN HEALTH PHYSICS

95 percent of recent graduates are employed in environmental health or pursuing further education in either graduate school or a professional degree program.

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(970) 491-6408
Little things matter in a big way! This might be your motto majoring in microbiology, with good reason. Microbiology is the branch of biology that examines the structure and function of microorganisms and their influence on health and disease. These include bacteria, fungi, prions, protozoa, and viruses.

Our department is home to world-renowned scientists in fields including insect-borne disease, prion disease, and tuberculosis. More than 60 percent of our microbiology students gain invaluable experience conducting research in faculty laboratories. Just think: Even as an undergraduate, you could work with international experts to help diagnose, prevent, and treat infectious diseases that threaten human and animal health worldwide.

Many of our microbiology students pursue further education in graduate programs and professional degree programs, mainly medical school and veterinary school. Their undergraduate research experience often sets their applications apart.

You’ll find professors dedicated to the art and science of education and advisors who provide personal attention, all to help you fulfill professional goals tied to health and medicine.

**MICROBIOLOGY: YOUR STUDIES**

Your coursework includes foundational science classes in biochemistry, biological science, chemistry, mathematics, medical bacteriology, medical and molecular virology, microbial genetics, microbial physiology, microbiology, and physics. You’ll also have hands-on microbiology lab classes.

Additionally, you might elect coursework in related interdisciplinary studies, including biomedical engineering, biotechnology, brewing science, epidemiology, food science and safety, or molecular biology.

MORE THAN 60% OF MICROBIOLOGY STUDENTS CONDUCT UNDERGRADUATE RESEARCH
HIGHLIGHTS

ONLY UNDERGRADUATE PROGRAM IN COLORADO
WORLD-RENOWNED PROFESSORS
CAREER VARIETY
MICROBIOLOGY IS CENTRAL TO BREWING SCIENCE

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(970) 491-6118
Neuroscience is the study of the nervous system – how it develops, how it is structured, and how it controls our senses, perceptions, thoughts, and behaviors in both normal and disease states.

The field comprises several scientific disciplines. For this reason, this major is part of a special academic unit jointly sponsored by the College of Natural Sciences and the College of Veterinary Medicine and Biomedical Sciences. That means you’ll benefit from interactions with fellow students and faculty members providing a variety of perspectives and expertise.

In this major, you may pick a concentration: molecular and cellular neuroscience, which explores the nervous system with a focus on neurons and their activity; or behavioral and cognitive neuroscience, which views the nervous system through the lens of sensation, perception, and behavior.

**YOUR INTERDISCIPLINARY MAJOR BENEFITS FROM FACULTY EXPERTISE IN**

**5 COLLEGES | 10 DEPARTMENTS**

**NEUROSCIENCE: YOUR STUDIES**

Your first two years will center on a core curriculum that includes a neuroscience seminar and coursework in cell biology, chemistry, genetics, mathematics, physics, and psychology.

Then you’ll choose a concentration. During your final two years, coursework will relate more closely to your concentration and will move into upper levels of biochemistry, cellular neurobiology, functional neuroanatomy, physiology, psychology, and statistics.

**A program highlight:** You will complete a capstone thesis based on original research or a literature review in neuroscience. While working on your thesis, you’ll receive faculty mentorship and intensive training that will perfectly prepare you for immediate employment, graduate school or a professional degree program.

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GET IN TOUCH!

Our Student Success Center is a central location providing students in the College of Veterinary Medicine and Biomedical Sciences with support services, advising, and a career counselor – all in one place.

SUCCESS CENTER ADDRESS .......................................................... 1508 Center Ave., Suite 250 in parking garage offices at Prospect Road and Center Avenue

PHONE ................................................................................................. (970) 491-6408
WEBSITE ......................................................................................... www.cvmbs.colostate.edu/undergrad
COLLEGE TOURS ........................................................................... kristen.p.brown@colostate.edu
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NEUROSCIENCE ............................................................................. phillip.quirk@colostate.edu

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AN EQUAL ACCESS AND EQUAL OPPORTUNITY UNIVERSITY.