Physiology

Curriculum

Physiology is a specialized life science degree which includes coursework in general zoology, genetics, gross and comparative anatomy, general and mammalian physiology and biochemistry. Physiology majors take intensive laboratory and seminar coursework for advanced study in the field. The degree program prepares students applying to professional school (including medical, dental, or veterinary school), graduate school and for research positions with universities, government agencies or industry.

Physiology majors develop the following skills:

- Core content of knowledge including under standing of the basic principles of ecology, genetics and cell biology.
- Advanced knowledge concerning animal and human physiology
- Critical thinking ability to summarize and evalu ate basic information concerning biological systems
- Ability to present scientific information clearly and concisely
- Prepared for admission into programs of schools of human and veterinary medicine and related health professions, graduate study or for entry into the job market in fields related to the life sciences

Get Involved

Advancing Women in Science
American Medical Student Association
American Student Dental Association
Pre-Health Professionals Club
Pre-Health Shadowing Network
Pre-Occupational Therapy Club
Pre-Optometry Student Association
Pre-Pharmacy Student Association
Pre-Physician's Assistant Club
Pre-Veterinary Club

https://campuslink.okstate.edu

College of Arts & Sciences Career Services

213 Life Science East
Tel: 405 744 5658

For appointments and resources:
http://cascareers.okstate.edu

Job and Internship Websites

- American Physiological Society
  http://www.the-aps.org/mm/Careers
- Centers for Disease Control and Prevention
  http://jobs.cdc.gov/
- Human Kinetics
  http://www.humankinetics.com/careers
- Indeed
  http://www.indeed.com/q-Physiology-jobs.html
- Navy
  http://www.navy.com/careers/healthcare/healthcare-sciences/research-physiology.html
- New Scientist Jobs
  http://jobs.newscientist.com/jobs/physiology/united-states/
- Mayo Clinic
  http://www.mayoclinic.org/jobs
- Monsanto
  http://jobs.monsanto.com/united-states/internship-and-co-op/jobid3994908-seed-physiology-intern-jobs
- Science Careers
  http://jobs.sciencecareers.org/jobs/physiology/
- Society for Integrative & Comparative Biology Educational Council
  http://www.sicb.org/careers
- Simply Hired
  http://www.simplyhired.com/k-physiologists-jobs.html
- Stevenson Cancer Center (OU Medicine)
  http://stephensoncancercenter.org/Research/ResearchEventsandOther/SummerResearchScholarsProgram.aspx
- The Physiological Society
  http://www.physoc.org/physiology-jobs

Physiology Career Paths...

Physiology is the study of the functioning of living things. This includes examining how the mechanics of the body perform, from the molecular level to the whole system, helping us better understand how different parts of an organism work together.

Physiologists can work in a variety of settings such as laboratories, medical and research facilities or out in the field to answer important questions such as how a single cell functions or how living things interact with their environments. Some related disciplines are biology, biochemistry, cell biology, neurophysiology and pharmacology.

Health Care: Physiologists frequently continue their education with specialized training and pursue careers in medicine, dentistry, optometry, physical therapy, nursing, pharmacy, veterinary medicine and other related fields.

Research: Researchers study animal and human physiology using the latest scientific tools and practices. Research can focus on natural systems or be applied to human health issues and challenges.

Education: Educators can work with students of all ages in a variety of settings. Physiologists can find opportunities in the classroom, in the field or in a research laboratory. Physiologists may also communicate science to the public. For example, they might create educational exhibits for museums or health centers, serve as consultants, write science articles published in newspapers, magazines and books or develop educational films and television programs.

Biotechnology: Physiologists apply scientific principles to develop and enhance products, tools and technological advances in fields such as agriculture, food science and medicine. Scientists may work in genetic engineering, pharmaceutical development or medical technologies, such as nanomedicine, or as a lab technician. Scientists can work with drug companies, manufacturers or developers of products and services in the testing, development and production stages.

Politics and policy: Physiologists may work with congressional representatives to facilitate the development of new legislation on a variety of topics including conservation and preservation, biomedical research and other related areas as consultants or political advisors.

Adapted from: American Institute of Biological Sciences http://www.aibs.org/careers,
The Society for Integrative and Comparative Biology

HIRE OSU GRADS .com

Types of Employers

Health and Fitness
Cancer Centers
Centers for Disease Control and Prevention
Children's Hospitals
Gyms or Weight Loss Centers
Healthcare Organizations
Hospitals and Clinics
Medical Centers
Pharmaceutical Companies
Sports Training Facilities
Rehabilitation Centers
US Navy

Science, Technology and Education
Biotechnology Companies
Colleges or Universities
Food Manufacturers or Developers
Forensic Science Labs
Government Agencies
Nonprofit Research Foundations
Private or Public Schools
Red Cross
Research Laboratories