

# Biochemical Science

## School of Arts & Science

### Outcomes

With a professional degree in biochemistry, careers are possible in:

- Medicine / Health Sciences
- Pharmacy
- Veterinary Medicine
- Drug Development / Pharmaceutical Industry
- Laboratory Research and Development Specialist / Manager
- Laboratory Quality Control Specialist / Manager
- Forensic Science
- Agricultural and biomedical research
- Biodegradation / bioremediation research
- Pesticide / insecticide / herbicide development
- Crop engineering / Genetics
- Patent Law
- Education / Teaching
- Energy Production / Alternative Energy Development
- Environmental Advocacy

### Contact Information

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### Program Description

Biochemistry is the study of the molecules and chemical reactions of life. It is the discipline that uses the principles and language of chemistry to explain biology at the molecular level. Students with a major in biochemistry are trained extensively in chemical, physical, and biological sciences. This challenging and marketable major provides a powerful combination of subjects that are very attractive both to prospective employers in industry and medicine, and to graduate and professional schools in various fields. A biochemical science option is designed for students planning to enroll in post-graduate school or further their education in the medical sciences after completion of the baccalaureate degree.

### PSC Points of Distinction

- Faculty expertise in biochemistry, biodiversity, ecology, evolutionary biology, systematics, entomology, vertebrate biology, and parasitology.
- All faculty members have earned PH.D.'s in their field of expertise.
- Numerous opportunities for independent undergraduate research, including publication and presentation of results at regional, national, and international meetings.
- Laboratories are personally taught by professors responsible for the course.
- Many laboratories have significant field components, with hands-on work in local streams, rivers, ponds, lakes, and terrestrial habitats.
- Graduates have high rates of acceptance into their first choice of graduate school or placement in local, regional, and national organizations.
- Instructional format permits the students personal and extended contact with faculty and individualized guidance during throughout all coursework.
- Each program at Peru State College is reviewed on a continual basis and coursework is updated to meet industry and academic standards.
- Students completing a degree at Peru State College are prepared to attend the nation's top graduate schools in all program areas.
- Minor in a subject area outside of the major is simple at Peru State and can broaden the scope of knowledge and can improve employment prospects for any student.

### Facilities

The recently-renovated Hoyt Science Building with the new Vrtiska addition is the primary building for students pursuing a degree in biochemistry. With new laboratories and state-of-the-art equipment available for student use, this facility has everything needed to learn about their field. Faculty offices are located throughout the building where classrooms are available as well.

### Faculty

Mike Barger, Ph.D., Associate Professor of Biology  
Richard Clopton, Ph.D., Professor of Biology  
John Hnida, Ph.D., Associate Professor of Biology  
Daryl Long, Ph.D., Professor of Science  
Dennis Welsh, Ph.D., Assistant Professor of Chemistry

### Courses Required

In addition to the general studies requirements, students must take a variety of science courses in biology, chemistry and mathematics to complete this degree. The progress sheet for this major includes a listing of all coursework required for the wildlife ecology major in addition to the general studies courses.

<http://www.peru.edu/artsandsciences/programs/>