INDIANA UNIVERSITY
NORTHWEST

## B.A. / B.S. IN BIOCHEMISTRY

Biochemistry is concerned with the chemical and physiochemical processes that occur in living organisms.

A Bachelor of Arts or Bachelor of Science in biochemistry degree provides students with a rigorous general background in the study of physical and biological sciences to prepare them for science-related jobs requiring a bachelor's degree or graduate or pre-health professional school. The requirement of physics, mathematics and biology maximizes the student's future opportunities and provides a comprehensive background in fundamental chemistry, biology and the physical sciences. The program prepares students for professional or research-oriented careers and graduate work.

Students who major in biochemistry can
concentrate their study in:

- Medicine
- Dentistry
- Pharmacy
- Biochemistry
- Organic Chemistry


## DEGREE REQUIREMENTS

Completion of a B.S. or B.A. in biochemistry requires a total of 120 credit hours, including 29 hours of chemistry courses and labs for the B.A. degree and 34 for the B.S. A minimum 2.0 grade point average is required.

## COURSEWORK

- General Chemistry
- Organic Chemistry
- Physical Biochemistry
- Biochemistry

Students should consult with the department for additional information concerning prerequisites, course content and academic counseling.

## PROGRAM HIGHLIGHTS

The Department of Chemistry collaborates with the IU School of Medicine - Northwest, located on campus, as well as with other research institutions within the greater metropolitan area. Students on a pre-medical academic track have the added advantage of proximity to the IU School of Medicine - Northwest.

The B.S. program offers an Honors track.

## WHAT CAN I DO WITH A B.A./B.S. IN CHEMISTRY?

Biochemistry graduates get jobs within the biochemical industry or proceed to graduate or medical school or to other pre-health professional schools. Opportunities for travel to research conferences also exist. There are ample opportunities to engage in research with other academic disciplines, including biology, geosciences, physics, psychology, computer information systems, and the IU School of Medicine - Northwest.

The program accommodates students seeking a career in chemistry or physical sciences as well as pre-professional training in the medical sciences (pre-medical, pre-dental, pre-pharmacy and allied health sciences).

## HANDS-ON LEARNING

The training of an undergraduate student is enhanced by experience in the research aspect of the discipline. Thus, students are encouraged to participate in research with faculty mentors. Students have the opportunity to use state-of-the-art instruments for their research. Research can be conducted within several areas, including organic, physical, inorganic, environmental chemistry and, of course, biochemistry. The department offers fully equipped modern teaching and research labs.

## CLUBS AND ACTIVITIES

The department is heavily involved in community outreach, sponsoring several scientific outreach programs including Science Olympiad, Lego League, Science Fair, and Science Olympiad Mini Clinic. The outreach efforts are conducted in collaboration with other departments including biology, geosciences, mathematics, and psychology.

## RELATED DEGREE OPTIONS

- Minor in Biology
- Minor in Physics
- Minor in Mathematics


## FOR MORE INFORMATION

Indiana University Northwest
Department of Chemistry/Physics/Astronomy
Marram Hall, Room 243
3400 Broadway
Gary, Indiana 46408
(219) 980-6740

Department Chair
Daniel Kelly
Email: kellydn@iun.edu
Administrative Assistant
Debi Qualls
Email: daqualls@iun.edu

