



# OHIO VALLEY UNIVERSITY BIOCHEMISTRY

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## WHAT'S NEXT?

### WHAT IS BIOCHEMISTRY?

Biochemistry is a multi-disciplinary science that connects many scientific and engineering disciplines, e.g., biology, agriculture, medicine, pharmacy and biomedical engineering. The core concepts are invaluable for students to build the knowledge and skills in biology and chemistry needed for careers in operational science, teaching, research, and graduate studies. Our major in Biochemistry is designed to develop fundamental concepts that give students a clear insight into the underlying biological and chemical principles to fulfill their particular interests and professional goals. Specifically, our students will develop competence in the application of scientific methods for problem-solving, data collection and analysis, and science communication. In addition, the program will integrate faith and learning principles to help our students to become both good scientists and faithful believers.

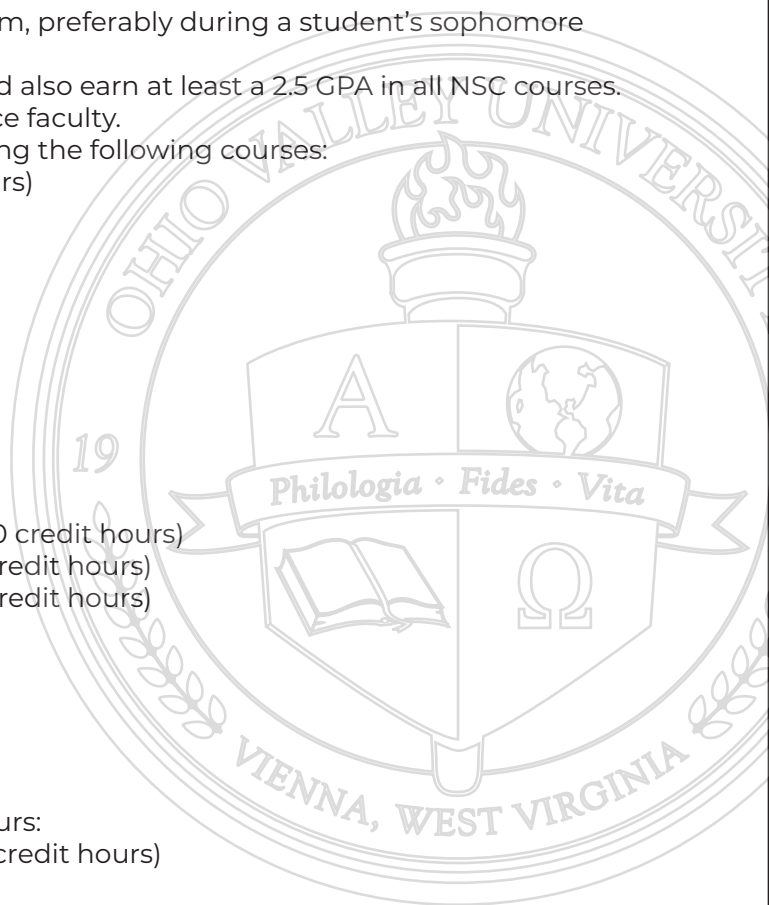


**STUDENT-FOCUSED. CHRIST-CENTERED. LIFE-CHANGING.**

### Requirements for Bachelor of Science in Biochemistry

Students majoring in Biochemistry must meet the following requirements:

1. Satisfy the General Institutional Requirements for a Bachelor's Degree.
2. Satisfy the requirements of the General Education program, which includes the following:
  - Bible Course Requirement
  - Writing Competency Requirements
  - Diversity Requirement
  - Work-Ready Requirement
3. Receive formal admission to the Biochemistry program, preferably during a student's sophomore year; the application is part of NSC 299.
4. Earn a grade of at least a C on all required courses and also earn at least a 2.5 GPA in all NSC courses.
5. Complete a portfolio of work satisfactory to the science faculty.
6. Complete 7 credit hours of mathematics by completing the following courses:
  - MAT 229: Introduction to Statistics (3 credit hours)
  - MAT 241: Calculus I (4 credit hours)
7. Complete 61 credit hours distributed as follows:
  - NSC 141 General Biology I (4 credit hours)
  - NSC 142 General Biology II (4 credit hours)
  - NSC 145 General Chemistry I (4 credit hours)
  - NSC 146 General Chemistry II (4 credit hours)
  - NSC 244 Physics I (4 credit hours)
  - NSC 245 Physics II (4 credit hours)
  - NSC 246 Organic Chemistry I (4 credit hours)
  - NSC 247 Organic Chemistry II (4 credit hours)
  - NSC 299 Natural Science Program Admission (0 credit hours)
  - NSC 310 Human Anatomy and Physiology I (4 credit hours)
  - NSC 311 Human Anatomy and Physiology II (4 credit hours)
  - NSC 400 Microbiology (4 credit hours)
  - NSC 432 Genetics (3 credit hours)
  - NSC 434 Biochemistry I (4 credit hours)
  - NSC 435 Biochemistry II (4 credit hours)
  - NSC 441 Cell Biology (4 credit hours)
  - NSC 451 Senior Seminar (2 credit hours)
8. Complete one of the following courses for 3 credit hours:
  - NSC 343 Introduction to Physical Chemistry (3 credit hours)
  - NSC 344 Inorganic Chemistry (3 credit hours)
  - NSC 345 Introduction to Instrumental Analysis (3 credit hours)



HEY *FIGHTING SCOT*,

Feeling overwhelmed with mapping out your future courses? No need! When you arrive on campus, you will be assigned your very own ACADEMIC ADVISOR. They know exactly how to help you & what you need.