

CHEMISTRY - BIOCHEMISTRY CONCENTRATION, B.S.

The Biochemistry concentration focuses on the structure-function relationship and reactions of molecules in living organisms, making it a great fit for students interested in graduate school, pharmaceutical research, or medicine.

Students graduating with a Biochemistry Concentration will be able to:

- Demonstrate knowledge of basic principles and theories in analytical, organic, physical chemistry, inorganic, and biochemistry
- Apply chemical principles through problem solving and laboratory experimentation
- Demonstrate competency in use of sophisticated laboratory instruments
- Design, implement, and analyze biochemical experiments involving nucleic acids and proteins

Code	Title	Hours
BIOL 150	Introduction to Biology I: Cells	4
BIOL 360	Biochemistry	3
BIOL 361	Advanced Biochemistry	3
or BIOL 361H	Honors: Advanced Biochemistry	
BIOL 410	Biotechniques	4
CHEM 150	Introduction to Chemistry I	4
CHEM 152	Introduction to Chemistry II	4
CHEM 201	Organic Chemistry I	4
CHEM 202	Organic Chemistry II	4
CHEM 250	Inorganic Chemistry	3
CHEM 301	Physical Chemistry I	3
CHEM 310	Analytical Chemistry	4
CHEM 311	Instrumental Analysis in Chemistry	4
CHEM 490	Chemistry Seminar	1
MATH 150	Precalculus ¹	3
MATH 220	Calculus I	3
MATH 320	Calculus II	3
PHYS 151	Introduction to Mechanics	4
PHYS 251	Introduction to Electricity & Magnetism	4
Total Hours		62

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Optional if student places into MATH 220.