MOLECULAR BIOLOGY MAJOR, BACHELOR OF SCIENCE

Students of Molecular Biology learn about chemical processes that occur between biomolecules in cells. These processes enable cells to perform their functions for the organism. Knowledge of these subcellular mechanisms prepares students for various careers and continued postgraduate education leading to higher degrees for work in academia, health care professions, or industry.

Requirements

The Bachelor of Science with a major in Molecular Biology requires a total of 54 credits including:

Code	Title	Credits
Required Department Core		**18**
BIOL 241	Organization of Life: Genetics and Cell Biology	
CHEM 231	General Chemistry I	
CHEM 232	General Chemistry II	
BHS 252	Introduction to Biological and Health Science Research	
BHS 494	The Integrated Biological and Health Scientist	
Molecular Biology Essentials		**12**
CHEM 341	Organic Chemistry I	
CHEM 342	Organic Chemistry II	
PHYS 221	General Physics I	
or PHYS 231	Introductory Physics I	
Molecular Biology Major Core		**16**
Molecular Biology Foundations		
Select 8 Credits from the following:		
BIOL 326	Advanced Cellular and Molecular Biology	
BIOL 356	Genetics	
BIOL/CHEM 461	General Biochemistry	
Molecular Biology Applications		
Select 8 credits from the following:		
BIOL 323	Introduction to Pharmacology	
BIOL 324	Microbiology	
BIOL 325	Immunology and Microbial Pathogenesis	
BIOL 334	Parasitology	
BIOL 342	Introduction to Bioinformatics	
NEUR 241	Foundations of Neuroscience	
NEUR 321	Cellular and Molecular Neuroscience	
Elective Courses		**8**
300 or 400-level BIOL or CHEM courses [1]		
Total Credits		**54**

[1] No electives may be CATC courses. See catalog for further BHS elective choices. Students pursuing professional health programs are encouraged to meet with the Director of Health Professions. Course offerings are subject to change based on faculty availability, class enrollment, or other unforeseen circumstances.