

# Biology-Chemistry Major

## Year 1

Fall	January	Spring
CHEM-111 General Chemistry I (MATH-121 Calculus I)		CHEM-113 General Chemistry II (MATH-122 Calculus II)
BIOL-106 Principles of Biology I		BIOL-108 Principles of Biology II
All necessary labs		All necessary labs

## Year 2

Fall	January	Spring
CHEM-311 Organic Chemistry I		CHEM-312 Organic Chemistry II
PHYS-111 College Physics I or PHYS-210 General Physics I		PHYS-112 College Physics II or PHYS-220 General Physics II
		BIOL-229 Introduction to Molecular Biology
All necessary labs		All necessary labs

## Year 3

Fall	January	Spring
CHEM-405 Biochemistry I (Lab) (BIOL-313 Microbiology)		BIOL-422 Advanced Human Physiology (CHEM-406 Biochemistry II)
		CHEM-235 Analytical Chemistry
		All necessary labs

*Take admissions tests in spring or summer.*

## Year 4

Fall	January	Spring
BIOL-364 Comparative Vertebrate Anatomy		(BIOL-356 Cell Biology)
Necessary Lab		

### Semester Hours

55-58 Biology-Chemistry Major

46 Core

16-19 Electives

120 Required

# Biology-Chemistry at Manchester University

## **The Biology-Chemistry Major:**

General Chemistry I and II  
Principles of Biology I and II  
(Calculus I and II)  
College or General Physics I and II  
Organic Chemistry I and II  
Analytical Chemistry  
Introduction to Molecular Biology  
Microbiology or Cell Biology  
Biochemistry I (and II)  
Advanced Human Physiology  
Comparative Vertebrate Anatomy

## **General**

Research experiences both on campus and off  
Academic advising with faculty  
Academic science clubs  
Science seminar  
Mentors for shadowing experiences

## **After Graduation**

Acceptance rates to medical, dental, vet, and pharmacy schools are high.  
Admission to graduate programs for master and doctorate degrees in a wide variety of science fields.  
Employment with bachelor's degree.