

# Biology-Chemistry Major from 2 Year Pre-Pharmacy

## Year 1

Fall	January	Spring
CHEM-111 General Chemistry I		CHEM-113 General Chemistry II
MATH-121 Calculus I		MATH-210 Statistical Analysis
BIOL-204 Fundamentals of Human Physiology		BIOL-202 Fundamentals of Human Anatomy
FYS First Year Seminar		COMM-110 Communication
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		PHYS-112 College Physics II
BIOL-229 Introduction to Molecular Biology		BIOL-313 Microbiology
All necessary labs		All necessary labs

## Year 3

Fall	January	Spring
CHEM-405 Biochemistry I (Lab)	(BIOL-332 DNA Science)	BIOL-422 Advanced Human Physiology
(BIOL-360 Genetics)		(CHEM-406 Biochemistry II)
(BIOL-431 Immunology)		CHEM-235 Analytical Chemistry
		All necessary labs

*Take admissions tests in spring or summer.*

## Year 4

Fall	January	Spring
		(BIOL-356 Cell Biology)

### NOTES

Students must take BIOL-360 Genetics, BIOL-431 Immunology, BIOL-365 Cell Biology, or BIOL-332 DNA Science.

### 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.