

# Biology-Chemistry Major (Fast Forward) 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 or PHYS-210 General Physics I		PHYS-112 College Physics II or PHYS-220 General 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-422 Advanced Human Physiology
(BIOL-431 Immunology)		(CHEM-406 Biochemistry II)
(BIOL-360 Genetics)		CHEM-235 Analytical Chemistry
(BIOL-332 DNA Science)		(BIOL-356 Cell Biology)
Necessary Labs		All necessary labs

*Take admissions tests in spring or summer.*

### NOTES

1. Students must take BIOL-360 Genetics, BIOL-431 Immunology, BIOL-365 Cell Biology, or BIOL-332 DNA Science.
2. The Manchester University Pharmacy Program requires that the core courses taken include one in economics, two in humanities (literature, art, philosophy, religion), one in social sciences (sociology, psychology, history) and one labeled "global connections." Students are advised to consult the entrance requirements of the pharmacy school(s) to which application is intended.

### 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.