

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)
Necessary Lab		

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.