

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.