

Chemistry Major

Year 1

Fall	January	Spring
CHEM-111 General Chemistry I		CHEM-113 General Chemistry II
MATH-121 Calculus I		MATH-122 Calculus II
All necessary labs		All necessary labs

Year 2

Fall	January	Spring
CHEM-311 Organic Chemistry I		CHEM-312 Organic Chemistry II
PHYS-210 General Physics I		PHYS-220 General Physics II
		CHEM-235 Analytical Chemistry
All necessary labs		All necessary labs

Year 3

Fall	January	Spring
CHEM-341 Physical Chemistry I		CHEM-342 Physical Chemistry II
400-level Lecture*		
400-level Lab*		
Necessary lab		Necessary lab

Year 4

Fall	January	Spring
400-level Lecture*		
400-level Lab*		

*400-level courses: CHEM-405 Biochemistry I, CHEM-405 Biochemistry I Lab, CHEM-406 Biochemistry II, CHEM-425 Advanced Organic Chemistry, CHEM-435 Advanced Inorganic Chemistry, CHEM-441 Advanced Analytical Lab I, CHEM-443 Advanced Analytical Lab II.

Semester Hours

50 Chemistry Major
 46 Core
24 Electives
 120 Required

Chemistry at Manchester University

General

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

Recent Chemistry Graduate Paths

- Graduate school
- Physician
- Dentist
- Pharmacist
- Industry
- High school teaching

Chemistry after Manchester University

General

Industrial research chemist
Teaching (high school, college)
Industrial analysis
Industrial instrumentation
Pharmaceutical research
Forensic chemistry (crime lab)
Science journalism
Industrial by product utilization
Pollution testing and control
Government laboratories
National Institute of Health
Environmental Protection Agency
Regional laboratories
Private laboratories
Battelle Institute
Polymer research

Physics Emphasis

Semiconductor research
Industrial physical chemistry
Chemical instrumentation development
Industrial spectroscopy
Instrument service and repair
Research on superconductors

Biology Emphasis

Agricultural chemistry
Biomedical instrumentation
Biomedical Clinical chemistry
Biomedical Clinical Dentistry
Dentistry
Food processing industry
Industrial Hygiene
Medical research
Medical technology
Medicine
Nursing
Nutrition
Podiatry (DPM)
Pollution testing and control
Population control research
Veterinary medicine
Selective pest control

Language Emphasis

Computer applications
Chemical library service
Chemical patent practice
Multinational corporations
Translating chemical literature