

CHEMISTRY/ BIOCHEMISTRY

University of Northern Iowa College of Humanities, Arts & Sciences

<https://chemistry.uni.edu/>

ABOUT THE MAJOR

Chemistry is the study of matter and change. It is a broader category of science encompassing all forms of matter composition and structure. Biochemistry, on the other hand, is a more specific discipline that studies the chemistry of life - how life works at the molecular level, what kinds of chemical reactions occur in cells, and how these reactions give an organism its observed characteristics.

SAMPLE COURSEWORK

General Chemistry I and II	Organic Chemistry
Organic Chemistry I and II	Descriptive Inorganic Chemistry
Physical Chemistry I and II	
Biochemistry I and II	Undergraduate Research in Chemistry

POSSIBLE CAREERS *some titles may require further education

Dentist	Nursing	Quality Assurance	Chemical Engineer
Forensic Scientist	Patent Law	Researcher	Geochemist
High School Teacher	Pharmaceutical Sales	Technical Sales	Pharmacologist
Industrial Chemist	Pharmacist	Veterinarian	Materials Scientist

UNI GRADUATES: WHERE ARE THEY NOW?

- University of Northern Iowa
- University of Iowa
- Cambrex
- DuPont Pioneer
- Intergrated DNA Technologies
- Cargill
- University of Iowa Healthcare
- Thermo Fisher Scientific
- USDA
- AbbVie
- PPD
- Garratt-Callahan Company
- Eurofins
- Hach
- Albany Molecular Research Inc.



SKILLS NEEDED

- Patience
- Flexibility
- Numerical skills
- Analytical skills
- Advanced attention to detail and accuracy
- Written and oral communication skills
- Data analysis
- Research skills
- Information technology skills

HOLLAND CODES

IRS