

CHEMISTRY > HEALTH SCIENCES

Chemistry is an important and useful study if you want to enter a health profession. The Chemistry Health Sciences degree program at Wayne State College takes the study of chemistry and focuses it on the health and medical fields. This focus allows you to connect and understand the physical and biological sciences and how they relate to the medical profession. With a Chemistry degree focusing on health sciences, you will be prepared to move on with career possibilities such as a physician, pharmacist, or similar health profession, or graduate work in chemistry.

fast facts

Hours:

55 hours for program
30 hours in general education

At least 120 hours are required for graduation from Wayne State College. You must add a second major, minor, or electives to help meet these requirements.

Degrees offered: B.A. or B.S.

Departments: Physical Sciences and Mathematics

School: Science, Health, and Criminal Justice

Research: Individualized research experience designed for your interest

Popular minors: Biology, Psychology, Physics, Spanish

focus on results

Skills Learned

- Chemical processes and materials
- Chemical experiment and design
- Modern equipment usage
- Analytical, organic, and inorganic chemistry
- Biochemistry
- Molecular genetics
- Human anatomy
- Probability and statistics
- University physics and experimentation
- Advanced lab techniques and management
- Critical thinking and problem-solving

Possible Careers

- Doctor / physician
- Medical lab technician
- Medical research scientist
- Pharmacist
- Biochemical researcher
- Pathologist
- Toxicologist
- Forensic scientist
- Chemical engineer
- Chemist

Types of Employers

- Hospitals and medical clinics
- Medical research labs
- Pharmaceutical companies
- Schools, colleges, and universities
- Environmental agencies
- Public health organizations
- Government / federal agencies
- Non-profit organizations
- Chemical companies
- Cosmetic companies
- Manufacturing companies

outside the classroom



Visit www.wsc.edu/clubs to learn more about clubs and organizations on campus.

Activities / Opportunities

- Conduct research projects
- Conferences and presentations
- Peer mentoring and tutoring
- Service-Learning
- Study Abroad

Clubs / Organizations

- Biology Club
- Health Science Club
- Student Red Cross

Sample program of study

2023-24 Academic Year

Every effort is made to ensure this information is current, but please be aware that some content may have changed. There is no substitute for developing a careful course registration plan in consultation with your advisor. The class sequence listed is suggested only. The final decision rests with the student and academic advisor.

Students must complete the listed coursework below in addition to meeting the Core Academic Tenets (CATs) of the General Studies program. A minimum of 120 credits are needed for graduation. RHOP students must earn a B.S. degree from WSC prior to transfer to UNMC. Internships are also recommended; talk to your advisor or Career Services.

Freshman - 1st semester

BIO 110 Biology Concepts.....	4
CHE 106 General Chemistry I	4
ENG 102 Composition Skills (General Studies CAT 1).....	3
General Studies elective (CAT 2, CAT 4, or CAT 8).....	3

Freshman - 2nd semester

CHE 107 General Chemistry II	4
EAS 310 Excel for the Physical Sciences.....	1
MAT 140 Calculus I	5
MAT 180 Applied Probability and Statistics.....	3
PSY 101 General Psychology (General Studies CAT 5).....	3

Sophomore - 1st semester

BIO 220 Human Anatomy.....	4
CHE 314 Organic Chemistry I.....	4
PHY 301 University Physics I	4
PHY 321 Physics I Lab	1
Optional elective by advisement.....	3

Sophomore - 2nd semester

BIO 340 Human Physiology.....	4
CHE 315 Organic Chemistry II.....	4
PHY 302 University Physics II.....	4
PHY 322 Physics II Lab.....	1
Optional elective by advisement.....	3

Junior - 1st semester

BIO 320 Molecular Genetics.....	4
CHE 305 Analytical Chemistry	4
CHE 326 Biochemistry I.....	4
FCS 207 Nutrition (General Studies CAT 9).....	3

Junior - 2nd semester

*CHE 380 Instrumental Analysis.....	4
*CHE 426 Biochemistry II.....	3
**BIO 486 Immunology.....	3
General Studies elective (CAT 2, CAT 4, or CAT 8).....	3

Senior - 1st semester

**BIO 336 Cancer Biology.....	3
*CHE 456 Physical Chemistry I.....	3
PHI 105 Ethics and Values (General Studies CAT 6).....	3
General Studies elective (CAT 2, CAT 4, or CAT 8).....	3

Senior - 2nd semester

**BIO 443 Advanced Human Anatomy.....	3
*CHE 390 Inorganic Chemistry.....	3
**BIO 385 Microbiology.....	4
Optional elective by advisement.....	3

Other courses to consider:

BIO 108 Medical Terminology.....	1
BUS 208 Business Communications.....	3
BIO 230 Bioethics.....	3
BUS 240 Accounting I	3
BIO 330 Histology.....	4
CHE 457 Physical Chemistry II	3
ENG 206 Workplace Writing.....	3
PSY 450 Abnormal Psychology.....	3
SOC 101 Introduction to Sociology.....	3
SPA 110 Elementary Spanish I (for health careers).....	4

* Choose two of these four courses

** Recommended, not required

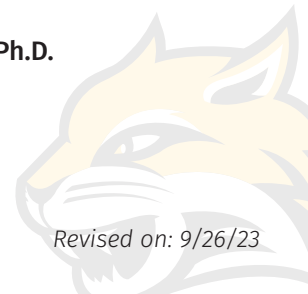
chemistry faculty



Visit www.wsc.edu/psm to learn more about the Department Physical Sciences and Mathematics.

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