

PRE-MEDICINE

The field of medicine is a noble area of study – and very broad. Choose a career in medicine, and you’re in for a lifetime of service to a broad population – a challenging yet rewarding occupation. Quality medical attention is essential to everyone at some point, whether it be due to injury, surgery, pregnancy, therapy, or sickness. You could be the one to provide care or even save someone’s life one day. To begin your journey toward a medical degree, you’ll start with a bachelor’s degree from Wayne State. Recommended programs include the biology or chemistry pre-medical degree tracks. After that, you’ll be ready to apply for the medical school of your choice, such as the University of Nebraska Medical Center or Creighton. The path to becoming a doctor may be long; however, it will be worth it.

fast facts

Hours:

42-56 hours in the major
30 hours in general education

120 hours are required for graduation from Wayne State College. You may choose to add electives or a minor to help meet these requirements.

GPA required: 3.0 or better to enter medical school

Degree offered: This program is set up so you will receive your B.A. or B.S. from WSC, then be ready to move on to professional medical school.

Department: Life Sciences

School: Science, Health, and Criminal Justice

Suggested programs of study: Biology, Chemical Sciences

Popular minors: Chemistry, Spanish, Public and Global Health, Psychology

focus on results

Skills Learned

- Critical thinking
- Scientific reasoning
- Data collection/analysis
- Scientific/clinical research interpretation
- Applied mathematics
- Applied biology and chemistry lab skills
- Molecular biology

Possible Careers

- Medical Doctor
- Surgeon
- General practitioner
- Pediatrician
- Oncologist
- Surgical technologist
- Anesthesiologist
- Pathologist
- Pharmacist
- Medical lab technician
- Genetic scientist

Types of Employers

- Private practices
- Surgical centers
- Pediatric clinics
- Hospitals and medical clinics
- Medical research facilities
- Pharmacies
- Surgical centers
- Schools, colleges, and universities
- Pharmaceutical companies
- Government / federal agencies
- Non-profit organizations

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
- Physician Assistant (PA) Club

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.

The courses listed cover all the prerequisites for medical school at UNMC or Creighton University and will enable the student to earn a B.S. in biology. For the chemistry degree option, see the pre-medicine/chemistry program of study.

Participation in this pre-professional program at WSC does not guarantee acceptance to a school of medicine. As many rural physicians handle much of their own financial affairs, some business courses are suggested.

Students are encouraged to take upper level science courses as electives to best prepare for medical school. All students need 40 or more credits of 300 level or above coursework and a minimum of 120 hours to graduate.

Freshman - 1st semester

BIO 110 Biology Concepts (General Studies CAT 7).....	4
CHE 106 General Chemistry I.....	4
ENG 102 Composition Skills (General Studies CAT 1).....	3
General Studies.....	3

Freshman - 2nd semester

BIO 200 Zoology OR BIO 210 Experimental Plant Science.....	4
CHE 107 General Chemistry II.....	4
General Studies.....	9

Sophomore - 3rd semester

BIO 320 Molecular Genetics.....	4
CHE 314 Organic Chemistry I.....	4
MAT 180 Applied Probability and Statistics (General Studies CAT 3)....	3
General Studies.....	6

Sophomore - 4th semester

BIO 104 Environmental Concerns (General Studies CAT 10).....	3
BIO 200 Zoology OR BIO 210 Experimental Plant Science.....	4
CHE 315 Organic Chemistry II.....	4
Electives (upper level).....	3-4

Junior - 5th semester

**BIO 220 Human Anatomy.....	4
***Disease or Human Form and Function elective.....	4
PHY 201 General Physics I.....	3
PHY 321 General Physics I Lab.....	1
Elective.....	3

Junior - 6th semester

**BIO 340 Human Physiology.....	4
BIO 370 Intro to Research.....	2
PHY 202 General Physics II.....	3
PHY 322 General Physics II Lab.....	1
Electives.....	4
General Studies.....	3

Senior - 7th semester

BIO 301 Biology Seminar.....	1
BIO 397 Biology Internship or BIO 465 Continuing Research.....	1
CHE 326 Biochemistry.....	4
***Disease or Human Form and Function elective.....	3-4
Elective.....	3-4

Senior - 8th semester

***Disease or Human Form and Function elective.....	3-4
BIO 425 Evolution.....	3
BIO 469 Senior Seminar or BIO 470 Research Project.....	1
Electives (upper level).....	8

*Recommended, but not required, for General Studies CAT 10

**Recommended electives

***Human Form and Function - Choose two or more classes from: BIO 330 Histology, BIO 340 Human Physiology, BIO 434 Advanced Cell Biology, BIO 443 Advanced Anatomy, BIO 409 Comparative Anatomy and Embryology

***Disease - Choose two or more classes from: BIO 336 Cancer Biology, BIO 385 Microbiology, BIO 340 Parasitology, BIO 486 Immunology

pre-medicine faculty



Visit www.wsc.edu/life-sciences
to learn more about the
Department of Life Sciences.

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