Osteopathic medicine focuses on diagnoses of disease and illness and evaluation of injury. It uses drugs, surgery, and modern technology for treatment. Osteopathic doctors work in hospitals, clinics, research labs, and pharmaceutical companies. You'll need an bachelor's degree to start your path toward an osteopathic medical degree, which you'll get at Wayne State. Recommended programs include the biology or chemistry pre-osteopathic medicine degree tracks to receive a solid foundation in the life or physical sciences. After graduating from WSC, you'll be ready to move on to coursework at a professional osteopathic medical school.

### FAST FACTS

**Degrees offered:** This program is set up so you will receive a B.S. at WSC, then be ready to continue with graduate work at a professional school for osteopathic medicine.

**GPA required (to enter medical school):** C or better

**Department:** Life Sciences

**School:** Natural and Social Sciences

**Suggested programs of study:** Biology, Chemical Sciences

**Popular minors:** Chemistry, Spanish

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**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**
- Osteopathic physician
- Family physician
- Primary care physician
- Regenerative medicine specialist
- General surgeon
- Rehabilitation physician
- Intervention radiologist
- Diagnostic medical specialist
- Internal medicine specialist
- Family practice director
- Clinical professor

**Types of Employers**
- Private practices
- Hospitals and medical clinics
- Surgical centers
- Research labs
- Government organizations
- Non-profit organizations
- Medical research facilities
- Diagnostic medical centers
- Pharmaceutical companies
- Rehabilitation centers
- Schools, colleges, and universities

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**Activities / Opportunities**
- Conduct research projects
- Conferences and presentations
- Peer mentoring and tutoring
- Service-Learning
- Study Abroad

**Clubs / Organizations**
- Biology Club
- Ironic Bonders (Chemistry) Club
- Health Science Club (Lambda Delta Lambda)

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**outside the classroom**

Visit [www.wsc.edu/clubs](http://www.wsc.edu/clubs) to learn more about clubs and organizations on campus.
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. 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.

**B.S. in biology. For the chemistry degree option, see the pre-medicine/chemistry program of study.**

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. For questions about this content, please see your advisor.

**SAMPLE PROGRAM OF STUDY**

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. For questions about this content, please see your 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.

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### FRESHMAN - 1st semester
- **BIO 110 Biology Concepts (General Studies CAT 7)** ........................................... 4
- **CHE 106 General Chemistry I** ................................................................. 4
- General Studies ...................................................................................... 6

### FRESHMAN - 2nd semester
- **BIO 200 Zoology or BIO 210 Experimental Plant Science** ..................... 4
- **CHE 107 General Chemistry II** ................................................................. 4
- General Studies ...................................................................................... 6

### SOPHOMORE - 3rd semester
- **BIO 320 Molecular Genetics** ................................................................. 4
- **CHE 314 Organic Chemistry I** ................................................................. 4
- **HIS 120 World History (General Studies CAT 10)** ................................. 3
- *MAT 180 Applied Probability and Statistics (General Studies CAT 3) ... 3
- General Studies ...................................................................................... 6

### SOPHOMORE - 4th semester
- **BIO 200 Zoology or BIO 210 Experimental Plant Science** ..................... 4
- **CHE 315 Organic Chemistry II** ................................................................. 4
- Electives (upper level) ........................................................................... 3-4
- General Studies ...................................................................................... 3

**MAT: UNMC requires either Statistics or Introductory Calculus.**

### JUNIOR - 5th semester
- **BIO 220 Human Anatomy** ...................................................................... 4
- **BIO 434 Advanced Cell Biology** ................................................................. 4
- **PHY 201 General Physics I** ................................................................. 3
- **PHY 321 General Physics I Lab** ................................................................. 1
- Elective .............................................................................................. 3-4

### 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 (upper level) ........................................................................... 3-4
- General Studies ...................................................................................... 3

### JUNIOR - 7th semester
- **BIO 301 Biology Seminar** ....................................................................... 1
- **BIO 397 Biology Internship or BIO 465 Continuing Research** .............. 1
- **BIO 425 Evolution** .............................................................................. 3
- **CHE 326 Biochemistry** ....................................................................... 4
- Electives (upper level) ........................................................................... 6-8

### JUNIOR - 8th semester
- **BIO 300 Histology** ............................................................................... 4
- **BIO 469 Senior Seminar or BIO 470 Research Project** ....................... 1
- Electives (upper level) ........................................................................... 5-8

**Not required for UNMC Medical School, but required for WSC pre-osteopathic medicine track degree.**

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**pre-osteopathic medicine faculty**

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