A health science degree is a great path to choose if you are interested in a career in the medical field – medicine, dentistry, nursing, physical or occupational therapy, clinical laboratory science, mortuary science, respiratory therapy, or other allied health science fields. Your education will be heavily based in biology with emphasis on how it relates to health sciences. The health sciences degree is often chosen as part of a pre-professional program in the medical field. With a health sciences degree, you will be prepared to move on to career possibilities such as a physician, nurse, or similar health profession, or graduate work in medicine.

Skills Learned
- Histology and immunology
- Advanced cellular biology
- Human anatomy and physiology
- Cardiovascular anatomy and function
- Evolutionary processes
- Biological systems and structures
- Molecular genetics
- General chemistry and physics
- Microbiology
- Research, data collection, and analysis

Possible Careers
- Doctor
- Surgeon
- Nurse
- Family physician
- Cardiologist
- Veterinarian
- Physician assistant
- Podiatrist
- Internal medicine specialist
- Osteopathist
- Optometrist
- Physical therapist

Types of Employers
- Hospitals and medical clinics
- Private medical practices
- Surgical centers
- Emergency rooms
- Veterinary clinics
- Rehabilitation centers
- Medical research facilities
- Laboratories
- Pharmaceutical companies
- Schools, colleges, and universities
- Non-profit organizations
- Government / federal agencies

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

Clubs / Organizations
- Biology Club
- Health Science Club
- Pre-Dental Club
- Pre-Physical Therapy Club
- The Wildlife Society

Focus on results

outside the classroom
Visit www.wsc.edu/clubs to learn more about clubs and organizations on campus.
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 many prerequisites for professional school and will enable the student to earn a B.S. in biology.

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 their specific professional field. 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
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

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

SENIOR - 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

SENIOR - 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 biology/pre-medicine track degree.

*MAT: UNMC requires either Statistics or Introductory Calculus.

Ronald Loggins, Ph.D.
Department Chair
402-375-7045
Carhart Science 207E
rologgi1@wsc.edu

Doug Christensen, Ph.D.
Glenn Kietzmann, Ph.D.
Robert McCue, Ph.D.
Shawn Pearcy, Ph.D.
Danielle Peekenschneider, Ph.D.

2018-19 Academic Year

Revised 11/20/18