

LIFE SCIENCES > BIOLOGY

The study of biology is the study of life. As a biologist, you'll get to explore living and breathing creatures, studying organisms from the tiniest insects to the largest mammals. In the biology degree program at Wayne State, you'll get to do these things and more. You'll get plenty of time in the lab, using high quality equipment and learning from expert faculty. Wayne State even has its own natural history museum. There are countless opportunities for careers with your life sciences degree, including positions with state and national parks, fisheries, wildlife management organizations, and research labs. Or, with a background in the biology field, you'll be an excellent candidate for graduate school in medicine, dentistry, nursing, physical therapy, physician assistant, chiropractic, or veterinary medicine. The living and breathing world is vast and open – just choose your route!

fast facts

Hours:

55-56 hours for major
30 hours in general education

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

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

Department: Life Sciences

School: Science, Health, and Criminal Justice

Internship: Encouraged but not required

Popular minors: Chemistry, Environmental Studies, Public and Global Health, Physics

focus on results

Skills Learned

- Evolutionary processes
- Biological systems and structures
- Research, data collection, and analysis
- Modern lab techniques
- Observation
- Critical thinking and problem-solving
- Communication

Possible Careers

- Biologist
- Research scientist
- Microbiologist
- Lab technician
- Nature conservationist
- Botanist
- Genetic scientist
- Biomedical engineer

Types of Employers

- Conservation societies
- Government / federal agencies
- Laboratories
- National parks
- Environmental agencies
- Zoos and aquariums
- Schools, colleges, and universities
- Hospitals and medical clinics
- Medical research facilities
- Pharmaceutical companies
- Public utility companies

outside the classroom

Activities / Opportunities

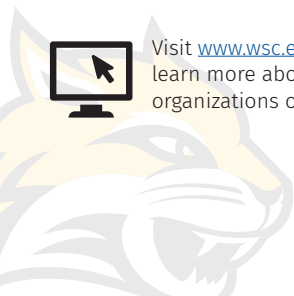
- Conduct research projects
- Conferences and presentations
- Peer mentoring and tutoring
- Service-Learning
- Study Abroad

Clubs / Organizations

- Biology Club
- Health Science Club
- Pre-Physical Therapy Club
- The Wildlife Society



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



Sample program of study

2021-22 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.

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 - 1st semester

*BIO 104 Environmental Concerns (General Studies CAT 10).....	3
BIO 320 Molecular Genetics.....	4
MAT 180 Applied Probability and Statistics (General Studies CAT 3).....	3
General Studies.....	6

Sophomore - 2nd semester

BIO 200 Zoology or BIO 210 Experimental Plant Science.....	4
CHE 208 Intro to Organic Chemistry OR CHE 314 Organic Chemistry I	4
Elective	6

Junior - 1st semester

BIO 325 Ecology OR BIO 434 Advanced Cellular Biology.....	4
**BIO upper level elective.....	4
PHY 201/321 General Physics I w/Lab	4
#Electives	3

Junior - 2nd semester

BIO 301 Biology Seminar	1
BIO 330 Histology OR **BIO upper level elective	4
BIO 370 Intro to Research	2
#Electives	9

Senior - 1st semester

***BIO 397 Internship or BIO 465 Continuing Research.....	1
**BIO upper level electives.....	3-4
#Electives	8-9

Senior - 2nd semester

BIO 425 Evolution	3
***BIO 469 Senior Seminar or BIO 470 Research Project.....	1
#Electives	10

*Recommended, but not required, to fulfill General Studies CAT 10.

**Any BIO courses numbering 300 and above will serve as upper level electives. (CHE 336 Biochemistry I may be taken in lieu of one biology elective course.) Biology track takes BIO 325 Ecology. Biomedical track takes BIO 330 Histology, and BIO 434 Advanced Cellular Biology.

***Students who do a research project will take BIO 465 and BIO 470. Students who do an internship will take BIO 464 and BIO 469.

Electives chosen need to ensure at least 40 credits of 300 or 400 level coursework in any area. Additional science courses are recommended.

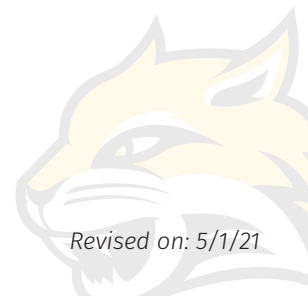
biology faculty



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

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