

# APPLIED SCIENCE

## Biology and Agriculture 3+1 Dual Degree Program with UNL

With the growing population of the world, natural resources must be understood and used wisely. In this program, you'll study both agriculture and biology. The program is an innovative partnership between Wayne State College and the University of Nebraska-Lincoln to train future professionals who can apply concepts, processes, and procedures to manage resources in the areas of food, animal, and plant systems. You'll study biology of natural systems as well as the impact human society has on the natural world. You'll begin your education with coursework at WSC, then transfer to UNL. After completing all required courses, you'll receive two bachelor's degrees: an applied science degree (concentration in agriculture) from UNL and a life sciences degree (concentration in biology) from WSC. With these degrees, you'll be prepared for jobs related to farming, ranching, parks and recreation, and land management.

## Fast facts

### Hours:

90 hours at WSC (including 30 hours of general education)

30 hours at UNL

*At least 120 hours are required for graduation from Wayne State College and the University of Nebraska-Lincoln.*

**Degrees offered:** B.S. in Life Sciences (biology concentration) from WSC and B.S. in Applied Science (agriculture concentration) from UNL

**Department:** Life Sciences

**School:** Science, Health, and Criminal Justice

**Internship:** Required for credit toward your degree

## focus on results

### Skills Learned

- Understanding of natural resource systems
- Critical thinking and problem-solving
- Scientific reasoning
- Biological systems and structures
- Plant science
- General chemistry and physics
- Modern lab techniques
- Technical communication
- Statistical analysis

### Possible Careers

- Agronomist
- Agricultural producer
- Crop consultant
- Farm/ranch operator
- Farm loan officer
- Feedlot manager
- Grain merchandiser
- Farm service tech

### Types of Employers

- Farm/ranch
- Agrochemical companies
- Farm service agencies
- Insurance companies

## outside the classroom

### Activities / Opportunities

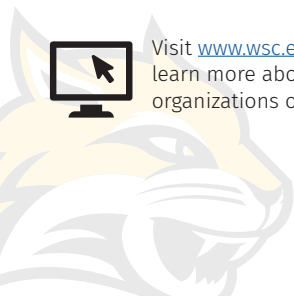
- Conduct research projects
- Conferences and presentations
- Peer mentoring and tutoring
- Service-Learning
- Study Abroad

### Clubs / Organizations

- Biology Club
- The Wildlife Society



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



# Sample program of study

2020-21 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
MAT 130 Pre-Calculus Math (General Studies CAT 3).....	5

## Freshman - 2nd semester

BIO 210 Experimental Plant Science.....	4
CHE 107 General Chemistry II .....	4
CNA 100 Principles of Human Communication (General Studies CAT 2).....	3
PHI 101 Introduction to Philosophy (General Studies CAT 6).....	3

## Sophomore - 1st semester

BIO 104 Environmental Concerns (General Studies CAT 10) .....	3
BIO 200 Zoology.....	4
BIO 320 Molecular Genetics.....	4
ECO 203 Principles of Microeconomics (General Studies CAT 8).....	3

## Sophomore - 2nd semester

ART 244 Art History Survey I (General Studies CAT 4) .....	3
BIO 325 Ecology .....	4
BIO 370 Introduction to Research.....	2
EAS 360 Global Climate Change.....	3
PHY 201/321 General Physics I with Lab.....	4

## Summer Session

BIO 397 Biology internship.....	1
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## Junior - 1st semester

BIO 145 Environmental Studies Seminar.....	1
BIO 345 Conservation Biology.....	3
BIO 385 Microbiology .....	4
BIO 470 Senior Seminar .....	1
MAT 180 Applied Probability and Statistics.....	3

## Junior - 2nd semester

*BIO 301 Biology Seminar .....	1
*BIO 301 Biology Seminar .....	1
FCS 107 Nutrition (General Studies CAT 9).....	3
GEO 430 Geographic Information Systems.....	3
HIS 180 American Experience I (General Studies CAT 5).....	3
POS 430 Public Policy.....	3
SOC 420 Environmental Sociology.....	3
<i>*Two BIO 301 seminar courses are required.</i>	

After completing coursework at WSC, you will then transfer to UNL to complete your degrees.

Once accepted to UNL College of Agriculture and Natural Sciences, students will work with their UNL advisor to select courses in the following areas:

AGRI 115 Biotechnology: Food, Health, and Environment .....	3
Food, Animal, and Plant Science Systems**.....	4
Current and Emerging Technologies** .....	2
Leadership, Entrepreneurship, and Economics** .....	12
Any CASNR ACE 10 course .....	3
Electives** .....	6

*\*\*Consult with applied science advisor to ensure courses are CASNR courses at the 300-400 level. Student must meet the CASNR residency requirement of 18 hours at the 300-400 level.*

## applied science faculty



Visit [www.wsc.edu/life-sciences](http://www.wsc.edu/life-sciences) to learn more about the Department of Life Sciences.

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