

Programs of Study

(Pre) Agriculture

AS.0100 (61 credits)

Associate of Science

Scottsbluff

The pre-agricultural emphasis area is designed to provide the student with a course of study that allows him/her the opportunity to complete an AS degree at WNCC, in addition to the first two years of coursework for articulation with the College of Agricultural Sciences and Natural Resources at the University of Nebraska-Lincoln, toward a Bachelor's of Applied Science degree.

The bachelor's-level courses through UNL are offered both on the main WNCC campus and online. This allows students in the Panhandle an opportunity to complete a bachelor's degree program at home.

Objectives

- Provide a basic knowledge of the natural sciences, allowing the student to develop an understanding of biological, physical, and chemical nature of agriculture and agriculturally related fields.
- Provide basic knowledge of economics and the role of agribusiness in the global economy.
- Provide a foundation of communication skills and working background in social sciences which will allow the student to work collaboratively.

Recommended Plan of Study

1st Semester		Credits
BIOS-1010	General Biology (101/101L)	4
ECON-2120	Principles of Microeconomics *	3
ENGL-1010	English Composition I (151)	3
MATH-1150	College Algebra (101)	4
PRDV-1010	Achieving College Success	3
Total Credits		17
2nd Semester		Credits
BIOS-1380	General Zoology (112/112L)	4
BIOS-2460	Microbiology (111)	4
MATH-1210	Trigonometry (102)	3
	Oral Communication GE elective	3
Total Credits		14
3rd Semester		Credits
BIOS-2120	Genetics (206)	4
CHEM-1090	General Chemistry (109)	4

ENGL-1020	English Composition II (101)	3
PHYS-1300	Physics I (141)	5
Total Credits		16

4th Semester		Credits
BIOS-1300	General Botany (109)	4
CHEM-1100	General Chemistry II (110)	4
ECON-2110	Principles of Macroeconomics*	3
STAT-2170	Applied Statistics (218)	3
Total Credits		14
Total AS Credits		61

Recommended Additions to the Program (if time allows)

Class		Credits
BIOS-2000	Introduction to Scientific Research	1
BIOS-1401	Biological Sciences Internship (Through UNL Extension Services)	1

* UNL prefers ECON-2110 (Principles of Microeconomics) and ECON-2120 (Principles of Macroeconomics) which also fulfill WNCC's humanities and social science electives.

Notes

- **UNL equivalent course numbers appear in parenthesis above.**
- Students who plan to transfer to UNL should consult their faculty advisor and transfer advisor early in their WNCC career to determine their curriculum. Careful consideration should be given the course requirements of the Applied Science program at UNL to which the student is seeking admission. The following will serve as a guide to for those students:
 - UNL prefers SPCH-1110 (Public Speaking) – COMM-209 at UNL.
 - UNL accepts 60 credit credits toward the eventual Bachelors of Applied Science. College Algebra transfers as three (3) credits rather than four (4) and Trigonometry transfers as two (2) credits rather than three (3).
 - UNL requires additional ACE electives. These can be taken through UNL as soon as students apply
 - and are accepted for admission to UNL. These can also be taken while at WNCC. Courses offered at WNCC that satisfy the UNL ACE 9 requirement are HIST-2100 (HIST-120), HIST-2110 (HIST-121), and POLS-1600 (POLS-160).
 - Students who intend to transfer to UNL are encouraged to apply for admission early in their program. ACE elective classes can be taken through UNL during their time at WNCC to lessen

the credit load in the fourth semester and additionally guarantee maximum credit transfer.

Applied Agriculture Technology

Diploma Certificate Scottsbluff

This program emphasizes technical knowledge and skills related to crop production and livestock operations. Coursework provides learning related to agricultural machinery use and operation, facility and equipment maintenance, regulations governing agriculture, plant science, and animal science.

Objectives

- Demonstrate recognition of agricultural facility operation and compliance needs.
- Demonstrate understanding of how to safely operate agricultural machinery.
- Demonstrate awareness of broader (current and future) issues facing the agriculture industry.
- Obtain industry credentials recognized by the local workforce.

Diploma

D2.0199 (34 credits)

To earn a diploma in applied agriculture technology, students must complete nine (9) credits of general education requirements and 25 credits of required applied ag courses, 16 of which can be earned by completing the requirements for the applied agriculture basic certificate.

Gainful Employment (GE) – For more information about WNCC's graduation rates, the median debt of students who have completed this program, and other important information, please visit wncc.edu/equity.

Recommended Plan of Study

General Education Requirements 9 credits

Course	Credits
ENGL-0500 Workplace Writing (or higher)*	3
MATH-1020 Technical Mathematics (or higher)*	3
PRDV-1010 Achieving College Success	3
Total Gen Ed Requirements	9

*English and math course selections are dependent on writing and math proficiency based on assessment. Students should consult with their academic advisor about specific general education courses required.

Applied Ag Requirements 25 credits

Course	Credits
AGRI-1005 Intro to Applied Agriculture	3
AGRI-1010 Agricultural Regulations	3
or	
Elective (see advisor)	
AGRI-1020 Weed and Pest Control	3
AGRI-1100 Agriculture Machinery	3
AGRI-1370 Water Systems Management	3
AGRI-1400 Ag Commercial Vehicle Operation	3
AGRI-2000 Emerging Agriculture Issues	3
AGRI-2500 Field Practicum/Internship	3
AMDT-1000 OSHA-10	1
Total Applied Ag Requirements	25
Total Diploma Credits	34

Certificate

C1.0199A (16 credits) Applied Agriculture Basic

C1.0199B (16 credits) Agriculture Welder

WNCC offers two certificate programs in applied agriculture – a basic program and one focusing on welding. The credits earned for the basic applied agriculture certificate fulfill 16 credits of the requirements for a diploma in applied agriculture.

Gainful Employment (GE) – For more information about WNCC's graduation rates, the median debt of students who have completed this program, and other important information, please visit wncc.edu/equity.

Recommended Plan of Study

Applied Agriculture Basic Certificate

Course	Credits
AGRI-1020 Weed and Pest Control	3
AGRI-1100 Agriculture Machinery	3
AGRI-1370 Water Systems Management	3
AGRI-1400 Ag Commercial Vehicle Operation	3
AGRI-2500 Field Practicum/Internship	3
AMDT-1000 OSHA-10	1
Total Credits	16

Agricultural Welder Certificate

Course	Credits
AGRI-1100 Agriculture Machinery	3
AGRI-1370 Water Systems Management	3
AMDT-1000 OSHA-10	1
Agricultural elective	3