

**AGRICULTURAL SCIENCES – PRE-VET OPTION**

(Note: Program requirements for this degree are offered on NOC Tonkawa campus only.

At the beginning of each course listing, the four letter abbreviation indicates the department and the four digits indicate the course code used for enrollment. The total course hour value follows each.)

PROGRAM REQUIREMENTS	Credit Hours	SUGGESTED COURSE SEQUENCE	Credit Hours
<b>GENERAL EDUCATION COURSES</b>	<b>37 TOTAL HOURS</b>	<b>FIRST SEMESTER</b>	<b>15 TOTAL HOURS</b>
ENGLISH COMPOSITION COURSES		ENGL 1113 English Composition I	3 hours
ENGL 1113 English Composition I	3 hours	MATH 1493 Math Applications (OR)	
ENGL 1213 English Composition II	3 hours	MATH 1513 College Algebra	3 hours
<b>HISTORY AND GOVERNMENT COURSES</b>		ORNT 1101 Freshman Orientation	1 hour
HIST 1483 American History to 1877 (OR) HIST 1493 American History Since 1877	3 hours	AGRI 1124 Intro to Animal Sciences	4 hours
POLI 1113 American Government	3 hours	BISI 1124 Gen Bio for Majors	4 hours
<b>HUMANITIES COURSES</b>		<b>SECOND SEMESTER</b>	<b>16 TOTAL HOURS</b>
Electives	6 hours	ENGL 1213 English Composition II	3 hours
One 3 hour course to be chosen from those listed with the International Dimension and 3 hours of humanities electives.		HIST 1483 American History to 1877 (OR) HIST 1493 American History Since 1877	3 hours
<b>MATHEMATICS COURSES</b>		BSAD 1113 Digital/Financial Literacy	3 hours
MATH 1493 Math Applications (OR)		CHEM 1314 General Chemistry I	4 hours
MATH 1513 College Algebra	3 hours	Program elective	3 hours
<b>SCIENCE COURSES</b>		<b>THIRD SEMESTER</b>	<b>16 TOTAL HOURS</b>
BISI 1114 General Biology (OR)		Humanities Elective	4 hours
BISI 1124 Gen Bio for Majors	4 hours	POLI 1113 American Government	3 hours
CHEM 1314 General Chemistry I	4 hours	AGRI 1113 Agricultural Economics	3 hours
<b>COMPUTER SCIENCE COURSES</b>		AGRI 1223 Intro to Plant/Soil Science	3 hours
BSAD 1113 Digital/Financial Literacy (or other approved computer course)	3 hours	BISI 2124 Microbiology	4 hours
<b>ORIENTATION COURSES</b>		<b>FOURTH SEMESTER</b>	<b>13 TOTAL HOURS</b>
ORNT 1101 Freshman Orientation	1 hour	Humanities Elective	3 hours
<b>GENERAL EDUCATION ELECTIVE COURSES</b>	<b>4 hours</b>	CHEM 1414 General Chemistry II	4 hours
Select courses from: Language Arts, Natural Sciences, Foreign Languages, Fine Arts, Humanities, Mathematics, Behavioral or Social Sciences.		*Program/Gen Ed Electives (2 courses)	6 hours
<i>It is advised that if a student takes a three credit hour course to apply to this requirement, the fourth credit hour may be counted from the overage hours taken from the Recommended Program electives below.</i>			
<b>PROGRAM REQUIREMENT COURSES</b>	<b>18 TOTAL HOURS</b>	This is a suggested sequence timeline only. A student may require more than four semesters to complete an Associate in Science degree.	
**AGRI 1113 Agriculture Economics	3 hours		
**AGRI 1124 Intro to Animal Science	4 hours		
**AGRI 1223 Intro to Plant/Soil Science	3 hours		
BISI 2124 Microbiology	4 hours		
CHEM 1414 General Chemistry II	4 hours		
Substitutions may be made with prior approval.			
<b>RECOMMENDED PROGRAM ELECTIVE COURSES</b>	<b>5 TOTAL HOURS</b>	* Hours from recommended program electives and general education electives in Science may be combined for final 8 hours required to graduate.	
**BISI 1314 General Botany	4 hours		
**BISI 1414 General Zoology	4 hours		
**BISI 2024 Entomology	4 hours		
SPCH 1713 Intro to Oral Communications	3 hours		
AGRI 1013 Introduction to Horticulture	3 hours		
**AGRI 2103 Agriculture Leadership	3 hours	**These program courses are typically offered only once a year. See course descriptions for fall or spring designations and plan accordingly.	
**AGRI 2123 Livestock Feeding	3 hours		
**AGRI 2222 Live Animal Evaluation	2 hours		
AGRI 2523 Intro to Sheep Prod. & Management	3 hours		
MATH 2023 Elementary Statistics	3 hours		
<b>TOTAL CREDIT HOURS</b>	<b>60</b>		

**This Associate in Science degree program in Agricultural Sciences consists of 60 hours designed to provide the student with the first two years of general requirements. The program is designed for seamless transfer to the Bachelor in Science degree in Agriculture Education, Animal Science, Animal Production, or Agriculture Ecology and includes courses generally completed in the first two years of a baccalaureate degree program.**

**Students should consult the catalog of the college or university to which they plan to transfer and carefully select courses which will meet requirements for both associate and bachelor's degree programs.**

**The agricultural sciences program prepares students interested in animal science, animal production, agribusiness, food science, and agriculture education for transfer to four-year institutions. The foundations of scientific- and business-based agricultural practices are explored.**

**Career Opportunities**

- **Animal Genetics**
- **Animal Pharmaceuticals**
- **Biotechnology**
- **Veterinary Medicine**

NOC evaluates students for placement into either foundational or college-level courses, whichever will lead to the greatest possibility of student success. Academic placement is determined either by A.C.T. test scores or by Accuplacer test scores. These tests are administered in the Testing Center at NOC. Based upon test scores, students may be required to take one or more courses for remediation in English, Math, or Reading, either prior to or concurrent with credit courses. See the NOC testing web page by clicking on the following link: ACT | Northern Oklahoma College (<http://www.noc.edu/act>) for placement guidelines.