Associate in Science Degree Northern Oklahoma College

Division of Agricultural Sciences

Agricultural Sciences-Pre-Vet Option

The Associate in Science degree program in Agricultural Sciences consists of 60 hours designed to provide the student with the first two years of general education and program requirements for transfer seamlessly to the Bachelor of Science degree in Agribusiness at Northwestern Oklahoma State University.

PROGRAM REQUIREMENTS

GENERAL EDUCATION ------ 37

Credit Hours

Bachelor of Science Degree Northwestern Oklahoma State University

School of Arts & Sciences

Pre-Veterinary Medicine Program Biology Major/Chemistry Minor

(Note: Could be completed with a Chemistry major/Biology minor.) Transfer students who have completed an Associate in Science degree in Agricultural Sciences from Northern Oklahoma College will have met the NWOSU General Education Requirements.

GENERAL EDUCATION
ENGLISH COMPOSITION
ENGL 1113 English Composition I 3
ENGL 1213 English Composition II 3
HISTORY AND GOVERNMENT
HIST 1483 American History to 1865 (or)
HIST 1493 American History since 1865 3
POLI 1113 American National Government 3
HUMANITIES
Electives6
*One 3-hour course to be chosen from those listed with International Dimension
and 3 hours of humanities elective.
MATHEMATICS
MATH 1513 College Algebra (or)
MATH 1493 Math Applications 3
SCIENCE
BISI 1114 General Biology (or)
BISI 1124 General Biology for Majors4
CHEM 1314 General Chemistry I 4
COMPUTER SCIENCE
BSAD 1113 Digital/Financial Literacy 3
(or other approved course)
ORIENTATION
ORNT 1101 Freshman Orientation1
GENERAL EDUCATION ELECTIVES4
Select courses from: Language Arts, Natural Sciences, Foreign Languages,
Fine Arts, Humanities, Mathematics, Behavior or Social Sciences. It is
advised that if a student takes a <u>three</u> 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.
taken from the Recommended Frogram Electives below.
PROGRAM REQUIREMENTS18
AGRI 1113 Agricultural Economics3
AGRI 1124 Intro to Animal Sciences4
AGRI 1223 Intro to Plant/Soil Science 3
BISI 2124 Microbiology 4
CHEM 1414 General Chemistry II 4
Substitutions may be made with prior approval.
RECOMMENDED PROGRAM ELECTIVES5
ACCT 2103 Accounting I-Financial3
ACCT 2203 Accounting II-Managerial 3
ACRI 1012 Leave best in the Heat in the second

AGRI 1013 Introduction to Horticulture ----- 3

AGRI 2103 Agriculture Leadership ----- 3

AGRI 2123 Livestock Feeding ------3 AGRI 2523 Intro to Sheep Prod & Mgmt. -----3 BISI 1314 General Botany ------4

BISI 1414 General Zoology ------ 4_

BISI 2024 Entomology ------4_

SPCH 1713 Intro to Oral Communication ------3_ MATH 2023 Elementary Statistics ----- 3 MATH 1613 Trigonometry------ 3_ TOTAL CREDIT HOURS------ 60

PROGRAM REQUIREMENTS

Credit Hours				
BIOLOGY MAJOR REQUIREMENTS40				
Health Science Option				
*BIOL 1224 General Zoology 4	_			
BIOL 3814 Human Anatomy OR				
BIOL3235 Comparative Vertebrate Anatomy 4-5				
BIOL 3194 Human Physiology 4	_			
BIOL 3343 Genetics 3	_			
*BIOL 3115 Microbiology 5				
BIOL 3011 Science Fair Judging 1	_			
BIOL 4011 Biology Seminar 1	_			
BIOL 4021 Senior Seminar 1	_			
Upper-level Biology electives+ 16-17	_			
+Recommended Electives:				
DIOL 2252 C I. I.				

BIOL 3352 Genetics Laboratory

BIOL 3363 Cell and Molecular Biology

BIOL 3502 Medical Terminology

BIOL 4103 Vertebrate Embryology

BIOL 4265 Animal Parasitology

BIOL 4323 Immunology

BIOL 4115 Pathogenic Microbiology and Immunology

BIOL 4143 Biochemistry

BIOL 4470 Independent Study

BIOL 4490 Readings in Biology

BIOL 4503 Pathophysiology

NOTE: Biology and Health Science Option majors must complete as part of his/her requirements:

- * CHEM 1115 General Chemistry I
- * CHEM 1215 General Chemistry II
- * MATH 1513 College Algebra
- * MATH 1613 College Trigonometry

CMSC 1103 Microcomputer Applications

CHEMICTRY MINOR DECLIDEMENTS	Credit Hours
CHEMISTRY MINOR REQUIREMENTS	
CHEM 1215 General Chemistry II	5
CHEM 3114 Organic Chemistry I	4
CHEM 3015 Classical Chem Analysis	5
+Advanced Chemistry Electives	6

+Recommended Electives:

CHEM 4114 Organic Chemistry II

CHEM 4143 Biochemistry

*Students who complete these courses as part of the Associate in Science in Agricultural Sciences degree requirements at NOC are not required to take them again at NWOSU.