

Grayson College Course Catalog

Overview

A graduate with an AS in Agricultural Sciences should possess competencies in basic economics and management, plant and animal operations, pest control, production and utilization of plant and animal products, marketing and food sciences. The ultimate goal is to provide clear pathways for transfer for students to complete their BS in either a general BS in Ag Sciences and/or specialize in any number of ag science fields.

AS Degree Requirements

Associate of Science - Agricultural Sciences

Subject	Semester Hours
ENGL 1301 (Composition I)	3
American History Core	3
Mathematics Core	3
Agricultural Sciences Elective	3
Agricultural Sciences Elective (lab)	1
Life & Physical Science Core	3
Life & Physical Science Core lab (CAO)	1
Communication Core	3
American History Core	3
Language, Philosophy, & Cultural Core	3
Agricultural Sciences Elective	3
Agricultural Sciences Elective (lab)	1
Agricultural Sciences Elective	3
Creative Arts Core	3
Life & Physical Sciences Core	3
Life & Physical Sciences Core Lab (CAO)	1
Government/Political Sciences Core	3
Social & Behavioral Sciences Core	3
Component Area Option Core	1
Agricultural Sciences Elective	3
Component Area Option Core	3
Agricultural Sciences Elective (lab)	1
Government/Political Science Core	3
Agricultural Sciences Elective	3
total:	60

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas. [Click here](#) for allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3

AGRI 1115 - Horticulture Lab

This laboratory-based course accompanies AGRI 1315. Laboratory activities will reinforce the structure, growth, and development of horticultural plants. Examination of environmental effects, basic principles of reproduction, production methods ranging from outdoor to controlled climates, nutrition, and pest management.

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Corequisites:

- [AGRI 1315](#) - Horticulture (Lecture)

AGRI 1119 - Introductory Animal Science Lab

This laboratory-based course accompanies AGRI 1319 Introductory Animal Science (lecture). Laboratory activities will reinforce scientific animal production and the importance of livestock and meat industries. Selection, reproduction, nutrition, management, and marketing of livestock.

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Corequisites:

- [AGRI 1319](#) - Introductory Animal Science

AGRI 1309 - Computers in Agriculture

Use of computers in agricultural applications. Introduction to programming languages, word processing, electronic spreadsheets, and agricultural software.

Grade Basis: L

Credit hours: 3.0

AGRI 1315 - Horticulture (Lecture)

Structure, growth, and development of horticultural plants. Examination of environmental effects, basic principles of reproduction, production methods ranging from outdoor to controlled climates, nutrition, and pest management.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Corequisites:

- [AGRI 1115](#) - Horticulture Lab

AGRI 1319 - Introductory Animal Science

Scientific animal production and the importance of livestock and meat industries. Selection, reproduction, nutrition, management, and marketing of livestock.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Corequisites:

- [AGRI 1119](#) - Introductory Animal Science Lab

AGRI 1329 - Principles of Food Science

Biological and scientific aspects of modern industrial food supply systems. Food classification, modern processing, nutritional quality, and quality control.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

AGRI 2317 - Intro to Agricultural Economics

Fundamental economic principles and their application in the agricultural industry.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

AGRI 2321 - Livestock Evaluation

Evaluation and grading of market cattle, swine, sheep, and goats and their carcasses and wholesale cuts. Emphasis will be placed on value determination. Selection and evaluation of breeding cattle, sheep, swine, and goats with emphasis on economically important traits.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

AGRI 2330 - Wildlife Conservation and Management

Principles and practices used in the production and improvement of wildlife resources. Aesthetic, ecological, and recreational uses of public and private lands.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

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Grayson College

6101 Grayson Drive (Hwy. 691) Denison, TX 75020

(903) 465-6030