



# GENERAL EDUCATION

## Faculty

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## MISSION

The mission of the General Education Division is to provide broad intellectual knowledge, awareness, and critical thinking skills in the liberal arts, humanities, and natural and social sciences directed toward the successful pursuit of students' personal and career goals as citizens and leaders in agriculture enterprises.

## PHILOSOPHY

General education is part of the academic experience that builds students' growth as citizens and professionals. General education instruction engages students in independent, critical, and creative thinking; promotes open-mindedness and understanding; gives confidence and inquisitiveness to challenge assumptions and explore ideas and values; promotes the passing of sound judgment; encourages the consideration of ethical and practical consequences of actions; and facilitates wisdom.

## Associate of Applied Science Curriculum

General Education Courses

### Written Communication; Critical Thinking 3

3 hours required:

ENG 1503	TECHNICAL COMMUNICATION I
ENG 1903	WRITING & INQUIRY

### Oral Communication 3

3 hours required:

AED 1023	INTERPERSONAL SKILLS FOR LEADERSHIP
SPC 1103	SALES COMM
SPC 1113	PUBLIC SPEAKING

### Quantitative Literacy 3

3 hours required:

ECN 1803	STATISTICS
MTH 1203	INTERMEDIATE ALGEBRA
MTH 1403	AGRICULTURAL MATHEMATICS
MTH 1503	COLLEGE ALGEBRA
MTH 2203	INTRODUCTION TO STATISTICS
VTS 1313	MATH FOR VET TECHS

### Problem Solving 4

4 hours required:

ASI 1024	FUND OF ANIMAL BIO
BIO 1104	GENERAL BIOLOGY & LAB
BIO 1313 & BIO 1321	PLANT SCIENCE and AGRONOMIC PLANT SCIENCE LABORATORY
CHM 1014	CHEMISTRY IN CONTEXT I
CHM 1024	CHEMISTRY IN CONTEXT II
CHM 1104	GENERAL CHEM I
CHM 2104	GENERAL CHEM II

VTS 1604 INTRODUCTION TO LABORATORY SCIENCE

### Civic Engagement; Intercultural Knowledge & Competence 4

Take one of the following:

ABM 1201	AG BUSINESS FOUNDATIONS
AGR 1661	AGRONOMY ORIENTATION
ASI 1001	SUCCESS IN ANIMAL SCIENCE
VTS 1241	SUCCESS IN VETERINARY TECHNOLOGY

Take one of the following:

PSY 1103	HUMAN RELATIONS
PSY 2000	CIVIC ENGAGEMENT AND INTERCULTURAL KNOWLEDGE
AGR 2823	INTRODUCTION TO GLOBAL AGRICULTURE AND NATURAL RESOURCES
ENG 2213	FILM GENRE
POL 1103	AMERICAN GOVERNMENT

**Total Credit Hours 17**

## Associate of Science Curriculum

General Education Courses

### Written Communication; Critical Thinking 3

3 hours required:

ENG 1503	TECHNICAL COMMUNICATION I
ENG 1903	WRITING & INQUIRY
ENG 2203	WRITING & ARGUMENT

### Oral Communication 3

3 hours required:

AED 1023	INTERPERSONAL SKILLS FOR LEADERSHIP
SPC 1113	PUBLIC SPEAKING

### Quantitative Literacy 3

3 hours required:

ECN 1803	STATISTICS
MTH 1203	INTERMEDIATE ALGEBRA
MTH 1503	COLLEGE ALGEBRA
MTH 2203	INTRODUCTION TO STATISTICS

### Problem Solving 8

8 hours required:

ASI 1024	FUND OF ANIMAL BIO
BIO 1104	GENERAL BIOLOGY & LAB
BIO 1313	PLANT SCIENCE
BIO 1321	AGRONOMIC PLANT SCIENCE LABORATORY
BIO 1331	INTRODUCTION TO HORTICULTURAL SCIENCE LABORATORY
CHM 1014	CHEMISTRY IN CONTEXT I
CHM 1024	CHEMISTRY IN CONTEXT II
CHM 1104	GENERAL CHEM I
CHM 2104	GENERAL CHEM II

### Civic Engagement; Intercultural Knowledge & Competence 7

Take one of the following:

ABM 1201	AG BUSINESS FOUNDATIONS
AGR 1661	AGRONOMY ORIENTATION

ASI 1001	SUCCESS IN ANIMAL SCIENCE
VTS 1241	SUCCESS IN VETERINARY TECHNOLOGY
Take two of the following:	
HTY 1303	AMERICAN HISTORY AFTER 1877
ENG 2213	FILM GENRE
POL 1103	AMERICAN GOVERNMENT
AGR 2823	INTRODUCTION TO GLOBAL AGRICULTURE AND NATURAL RESOURCES
<b>Total Credit Hours</b>	
<b>24</b>	

**BIO 1104 GENERAL BIOLOGY & LAB**

**Description:** Examination of fundamental principles of plant and animal biology including cell biology, genetics, development, diversity, and ecology.

**Credit Hours:** 4

**Max credits per semester:** 4

**Max credits per degree:** 4

**Grading Option:** Graded

**BIO 1313 PLANT SCIENCE**

**Description:** Biology of plants grown for food, fiber, fun, or fuel. Plant life cycles in managed ecosystems, and their role in global carbon and water cycles. Mechanisms plants use to drive and control their growth, propagate, and change to compete with other organisms in their environment.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**BIO 1321 AGRONOMIC PLANT SCIENCE LABORATORY**

**Description:** Growth, development, morphology, and staging of annual and perennial monocot and dicot plants produced for grain, forage and grazing. Evaluation of seed, grain and forage quality for plants of agronomic importance.

**Credit Hours:** 1

**Max credits per semester:** 1

**Max credits per degree:** 1

**Grading Option:** Graded

**BIO 1331 INTRODUCTION TO HORTICULTURAL SCIENCE LABORATORY**

**Description:** Introduction to and practical experience in the production and usage of horticultural plants.

**Credit Hours:** 1

**Max credits per semester:** 1

**Max credits per degree:** 1

**Grading Option:** Graded

**CHM 1014 CHEMISTRY IN CONTEXT I**

**Description:** The extraordinary chemistry of ordinary things. The chemical model of solids, liquids, gases, molecules, and salts. How these models are used to explore chemical aspects of biological, social, or economic situation.

**Credit Hours:** 4

**Max credits per semester:** 4

**Max credits per degree:** 4

**Grading Option:** Graded

**CHM 1024 CHEMISTRY IN CONTEXT II**

**Prerequisites:** CHEM 1014: Introduction to Chemistry I.

**Description:** How organic chemistry and biochemistry complement one another. Chemical aspects of biological, social, or economic situations.

**Credit Hours:** 4

**Max credits per semester:** 4

**Max credits per degree:** 4

**Grading Option:** Graded

**CHM 1104 GENERAL CHEM I**

**Prerequisites:** Two years of high school algebra and one year of high school chemistry or two years of high school algebra and CHM 1014.

**Description:** Lecture and laboratory serving as an introduction to chemical reactions, the mole concept, properties of the states of matter, atomic structure, periodic properties, chemical bonding and molecular structure.

**Credit Hours:** 4

**Max credits per semester:** 4

**Max credits per degree:** 4

**Grading Option:** Graded

**CHM 2104 GENERAL CHEM II**

**Prerequisites:** CHM 1104: General Chemistry I

**Description:** Lecture and laboratory serving as an introduction to intermolecular forces, kinetics, chemical equilibrium, thermodynamics, and electrochemistry.

**Credit Hours:** 4

**Max credits per semester:** 4

**Max credits per degree:** 4

**Grading Option:** Graded

**ENG 103 INTRODUCTION TO COLLEGE READING AND WRITING**

**Description:** This course allows students who have not achieved minimum placement scores in writing and reading (minimum 18 ACT in English & minimum 18 ACT in Reading or equivalent) to develop skills in those areas before taking a required English course.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Pass No Pass

**ENG 1503 TECHNICAL COMMUNICATION I**

**Description:** This course emphasizes the principles and strategies of written communication about technical subject matter using various media. It is designed to prepare the student to present technical and scientific documents in a clear and informative manner.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**Prerequisite for:** ENG 2203

**ENG 1903 WRITING & INQUIRY**

**Description:** A refinement of writing skills and critical reading, emphasizing the relationship between purpose and form, clarity, accuracy of expression, the development of the writer's voice and style, the elements of critical thinking, and the development of the research paper to prepare for university studies.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**Prerequisite for:** ENG 2203

**ENG 2203 WRITING & ARGUMENT**

**Prerequisites:** ENG 1503 OR ENG 1903

**Description:** A course for students seeking advanced work in reading and writing expository prose and in methods of research.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**ENG 2213 FILM GENRE**

**Description:** The study of one or more film genres-such as Western, Gangster, Romance, Science Fiction, Fantasy, or film noir-from its inception to the present day. Students will use knowledge, theories, and methods appropriate to the art of film to understand the films, their context, and their significance.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**ENG 2223 BEGINNING CREATIVE WRITING**

**Description:** Introduction to the writing of poetry, fiction, and screenplays. Lectures and discussions emphasize the principles, processes, and techniques of creative writing. Students develop their ability to respond to literature and scripts through workshops, discussions and written assignments requiring them to analyze professional and peer works. Emphasis on literary (as opposed to "slick") writing.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**HTY 1303 AMERICAN HISTORY AFTER 1877**

**Description:** Examines the economic, political, social, and cultural development of the United States from the end of the Reconstruction era through the modern era. Through lectures, readings, assignments, and discussion, students will be asked to interpret and critically evaluate historical documents, perspectives, concepts, and events.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**MTH 1203 INTERMEDIATE ALGEBRA**

**Prerequisites:** Test Placement

**Description:** Properties of real numbers, factoring, exponents and radicals, linear and fractional equations, linear and nonlinear inequalities, quadratic equations, and functions and graphs. This course may not be accepted in transfer toward the general education requirement for a baccalaureate degree.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**Prerequisite for:** MTH 1503

**MTH 1403 AGRICULTURAL MATHEMATICS**

**Description:** A study of mathematics, geometry and algebra that are utilized in the agricultural industry. Problems will include examples from crop production, horticulture, livestock management and agricultural business.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**MTH 1503 COLLEGE ALGEBRA**

**Prerequisites:** 21 ACT in Math or equivalent test score; MTH 1203:

Intermediate Algebra; or instructor permission

**Description:** Functions, inverse functions, graphing of linear and quadratic functions, the conic sections, polynomial functions, rational functions, exponential and logarithmic functions, systems of equations, determinants and matrices, and higher degree equations.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**MTH 2203 INTRODUCTION TO STATISTICS**

**Description:** Frequency distributions, elementary probability theory, measures of dispersion and central tendency, normal distributions, confidence intervals, hypotheses testing, regression, and correlation.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**MTH 2252 TRIGONOMETRY**

**Description:** Designed for students who plan further study at the calculus level. Numerical trigonometry, trigonometric analysis, inverse trigonometric functions, and complex numbers.

**Credit Hours:** 2

**Max credits per semester:** 2

**Max credits per degree:** 2

**Grading Option:** Graded

**PSY 1103 HUMAN RELATIONS**

**Description:** This course studies the psychology of humans and their relationships with others. Emphasis is placed on one's ability to get along with others in a working relationship.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**PSY 2000 CIVIC ENGAGEMENT AND INTERCULTURAL KNOWLEDGE**

**Description:** This course encompasses actions wherein individuals participate in activities of personal and public concern that are both individually life enriching and socially beneficial to the community. The course also supports intercultural knowledge and competence providing, effective, and behavioral skills and characteristics that support effective and appropriate interaction in a variety of cultural contexts.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**SPC 1103 SALES COMM**

**Description:** This course will instruct students in retail and service salesmanship, emphasizing the purpose of selling, the characteristics and functions of the salesperson, sales promotion, locating and qualifying prospects, and the steps in making a sale. Students are required to select a product, develop a sales manual and make a sales presentation.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**SPC 1113 PUBLIC SPEAKING**

**Description:** This course contains a study of the methods of developing and presenting oral communications. It includes techniques in speech making and other methods of communicating orally in the business world.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

training: Designing programs for culture learning. In *Contemporary leadership and intercultural competence: Understanding and utilizing cultural diversity to build successful organizations*, ed. M. A. Moodian, 95-110. Thousand Oaks, CA: Sage.)

## Associate of Applied Science Degree (A.A.S.) and associate of science (A.S.)

### Outcomes

Upon completion of the Associate of Applied Science degree students should be able to demonstrate the following skills and abilities (as defined by the Association of American Colleges & Universities VALUE Rubrics):

### Program Outcomes

1. **Written Communication.** Written communication is the development and expression of ideas in writing. Written communication involves learning to work in many genres and styles. It can involve working with many different writing technologies, and mixing texts, data, and images. Written communication abilities develop through iterative experiences across the curriculum.
2. **Oral Communication.** Oral communication is a prepared, purposeful presentation designed to increase knowledge, to foster understanding, or to promote change in the listeners' attitudes, values, beliefs, or behaviors.
3. **Quantitative Literacy.** Quantitative Literacy (QL) – also known as Numeracy or Quantitative Reasoning (QR) – is a “habit of mind,” competency, and comfort in working with numerical data. Individuals with strong QL skills possess the ability to reason and solve quantitative problems from a wide array of authentic contexts and everyday life situations. They understand and can create sophisticated arguments supported by quantitative evidence and they can clearly communicate those arguments in a variety of formats (using words, tables, graphs, mathematical equations, etc., as appropriate).
4. **Problem Solving.** Problem solving is the process of designing, evaluating and implementing a strategy to answer an open-ended question or achieve a desired goal.
5. **Civic Engagement:** Civic engagement is “working to make a difference in the civic life of our communities and developing the combination of knowledge, skills, values and motivation to make that difference. It means promoting the quality of life in a community, through both political and non-political processes.” (Excerpted from *Civic Responsibility and Higher Education*, edited by Thomas Ehrlich, published by Oryx Press, 2000, Preface, page vi.) In addition, civic engagement encompasses actions wherein individuals participate in activities of personal and public concern that are both individually life enriching and socially beneficial to the community.
6. **Critical Thinking:** Critical thinking is a habit of mind characterized by the comprehensive exploration of issues, ideas, artifacts, and events before accepting or formulating an opinion or conclusion.
7. **Intercultural Knowledge and Competence:** Intercultural Knowledge and Competence is “a set of cognitive, affective, and behavioral skills and characteristics that support effective and appropriate interaction in a variety of cultural contexts.” (Bennett, J. M. 2008. Transformative