**About This Major . . .**

The Sustainable Agriculture curriculum is designed to provide the entrepreneurial and technical skills necessary to manage a profitable, environmentally sound, community based small farm or agricultural business. Students learn the fundamentals of sustainable agriculture, focusing on crop and animal production with farm business. Emphasis is placed on entrepreneurial and practical field training. Students will complete a business plan and an agricultural internship in marketing and farming. Graduates are qualified for employment in a variety of positions associated with sustainable agriculture, including horticultural and livestock operations, wholesale and retail management, nursery operations, and environmental and agricultural education.

This program will provide the student with an understanding of Sustainable Agriculture and its principles of operation and control. The graduate will understand the technical aspects of the work, the responsibilities of the work and the importance of safety in this vitally important career.

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply business communication using listening, verbal and written and electronic forms that are needed for entry level employment. (Communication Fluency)
2. Apply mathematical and applied physics concepts for industry to meet employment requirements. (Quantitative Fluency)
3. Research, evaluate, synthesize and apply information/data relevant to business, sciences and technical careers. (Critical Thinking)
4. Demonstrate knowledge of terminology, symbols, business practices, and principles and application of technical skills. (Specialized Knowledge)
5. Perform the necessary applied skill sets to fulfill the needs of entry level employment. (Applied Learning)

**Advising Process and DegreeWorks**

This document is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their degree requirements:
- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

## INSTITUTIONAL DEGREE REQUIREMENTS

The following institutional degree requirements apply to all CMU/WCCC AAS degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours minimum.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See "Requirements for Undergraduate Degrees and Certificates" in the catalog for a complete list of graduation requirements.

## PROGRAM-SPECIFIC DEGREE REQUIREMENTS

- 60 semester hours total for the AAS, Sustainable Agriculture.
- A grade of "C" or higher must be achieved in coursework toward major content area.

## ESSENTIAL LEARNING REQUIREMENTS (15 semester hours)

See the current catalog for a list of courses that fulfill the requirements below.  If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

**Communication** (6 semester hours)
- ☐ ENGL 111 - English Composition (3)
- ☐ ENGL 112 - English Composition (3)

**Mathematics** (3 semester hours)
- ☐ MATH 108 - Technical Mathematics (4)* or higher
  *3 credits apply to Essential Learning requirements and 1 credit applies to General Electives.

**Other Essential Learning Core Courses** (6 semester hours)
- ☐ Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course (3)
- ☐ Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course (3)

## OTHER LOWER-DIVISION REQUIREMENTS

**Wellness Requirement** (2 semester hours)
- ☐ KINE 100 - Health and Wellness (1)
- ☐ Select one Activity course (1)

**<u>AAS:  SUSTAINABLE AGRICULTURE REQUIREMENTS</u>** (37 semester hours, must earn a grade of "C" or better in each course)

**Agriculture Courses** (28 semester hours)
- ☐ AGRS 100 - Practical Crop Production (3)
- ☐ AGRS 100L - Practical Crop Production Laboratory (1)
- ☐ AGRS 102 - Agriculture Economics (3)
- ☐ AGRS 105 - Animal Science (3)
- ☐ AGRS 125 - Agricultural Machinery (3)
- ☐ AGRS 205 - Farm/Ranch Management (3)
- ☐ AGRS 210 - Agricultural Marketing (3)
- ☐ AGRS 240 - Introduction to Soil Science (3)
- ☐ AGRS 240L - Introduction to Soil Science Laboratory (1)
- ☐ AGRS 293 - Cooperative Experience (5)

**Restricted Electives** (9 semester hours)
Select 9 semester hours from the list below. See recommended advising tracks.

ACCT 201 - Principles of Financial Accounting (3)

AGRS 103 - Introduction to Entomology (2)

AGRS 103L - Introduction to Entomology Laboratory (1)

AGRS 110 - Integrated Pest Management (3)

AGRS 118 - Farm Structures/Green Houses (3)

AGRS 208 - Agricultural Finance (3)

AGRS 224 - Integrated Ranch Management (3)

AGRS 225 - Feeds and Feeding (4)

AGRS 230 - Farm Animal Anatomy and Physiology

AGRS 250 - Live Animal & Carcass Evaluation (1)

AGRS 250L - Live Animal & Carcass Evaluation Laboratory (2)

AGRS 260 - Plant Propagation (3)

AGRS 288 - Livestock Practicum (1)

AGRS 288L - Livestock Practicum Laboratory (1)

AGRS 296 - Topics: Sustainable Agriculture Practices (1-3)

CISB 101 - Business Information Technology (3)
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

**<u>GENERAL ELECTIVES</u>** (5 semester hours)
- ☐ <u>MATH 1XX</u>                                                                      (1)
- ☐ _____
- ☐ _____

**Freshman Year, Fall Semester: 14 credits**
- MATH 108 - Technical Mathematics (4)
- AGRS 100 - Practical Crop Production (3)
- AGRS 100L - Practical Crop Production Laboratory (1)
- AGRS 125 - Agricultural Machinery (3)
- AGRS 105 - Animal Science (3)

**Freshman Year, Spring Semester: 15 credits**
- ENGL 111 - English Composition (3)
- AGRS 230 - Farm Animal Anatomy & Physiology (3)
- AGRS 102 - Agriculture Economics (3)
- AGRS 205 - Farm/Ranch Management (3)
- Essential Learning - Social Science, Natural Science, Fine Arts, or Humanities (3)

**Summer: 5 credits**
- AGRS 293 - Co-op Work Experience (5)

**Sophomore Year, Fall Semester: 12 credits**
- ENGL 112 - English Composition (3)
- AGRS 240 - Introduction to Soil Science (3)
- AGRS 240L - Introduction to Soil Science Laboratory (1)
- AGRS 250 - Live Animal & Carcass Evaluation (1)
- AGRS 250L - Live Animal & Carcass Evaluation Laboratory (2)
- General Elective (2)

**Sophomore Year, Spring Semester: 14 credits**
- KINA 1XX Activity (1)
- KINE 100 - Health and Wellness (1)
- Essential Learning - Social Science, Natural Science, Fine Arts, or Humanities (3)
- AGRS 210 - Agricultural Marketing (3)
- AGRS 288 - Livestock Practicum (1)
- AGRS 288L - Livestock Practicum Laboratory (1)
- AGRS 255 - Feed & Feeding (4)

**Freshman Year, Fall Semester: 14 credits**
- MATH 108 - Technical Mathematics (4)
- AGRS 100 - Practical Crop Production (3)
- AGRS 100L - Practical Crop Production Laboratory (1)
- AGRS 125 - Agricultural Machinery (3)
- AGRS 105 - Animal Science (3)

**Freshman Year, Spring Semester: 15 credits**
- ENGL 111 - English Composition (3)
- AGRS 102 - Agriculture Economics (3)
- AGRS 103 - Introduction to Entomology (2)
- AGRS 103L - Introduction to Entomology Laboratory (1)
- AGRS 205 - Farm/Ranch Management (3)
- Essential Learning - Social Science, Natural Science, Fine Arts, or Humanities (3)

**Summer: 5 credits**
- AGRS 293 - Co-op Work Experience (5)

**Sophomore Year, Fall Semester: 13 credits**
- ENGL 112 - English Composition (3)
- AGRS 240 - Introduction to Soil Science (3)
- AGRS 240L - Introduction to Soil Science Laboratory (1)
- AGRS 260 - Plant Propagation (3)
- General Elective (3)

**Sophomore Year, Spring Semester: 13 credits**
- KINA 1XX Activity (1)
- KINE 100 - Health and Wellness (1)
- Essential Learning - Social Science, Natural Science, Fine Arts, or Humanities (3)
- AGRS 210 - Agricultural Marketing (3)
- AGRS 110 - Integrated Pest Management (3)
- General Elective (2)

**Freshman Year, Fall Semester: 14 credits**
- MATH 108 - Technical Mathematics (4)
- AGRS 100 - Practical Crop Production (3)
- AGRS 100L - Practical Crop Production Laboratory (1)
- AGRS 125 - Agricultural Machinery (3)
- AGRS 105 - Animal Science (3)

**Freshman Year, Spring Semester: 15 credits**
- ENGL 111 - English Composition (3)
- AGRS 102 - Agriculture Economics (3)
- AGRS 103 - Introduction to Entomology (2)
- AGRS 103L - Introduction to Entomology Laboratory (1)
- AGRS 205 - Farm/Ranch Management (3)
- Essential Learning - Social Science, Natural Science, Fine Arts, or Humanities (3)

**Summer: 5 credits**
- AGRS 293 - Co-op Work Experience (5)

**Sophomore Year, Fall Semester: 13 credits**
- ENGL 112 - English Composition (3)
- AGRS 240 - Introduction to Soil Science (3)
- AGRS 240L - Introduction to Soil Science Laboratory (1)
- AGRS 260 - Plant Propagation (3)
- AGRS 296 - Sustainable Agriculture Practices (3)

**Sophomore Year, Spring Semester: 13 credits**
- KINA 1XX Activity (1)
- KINE 100 - Health and Wellness (1)
- Essential Learning - Social Science, Natural Science, Fine Arts, or Humanities (3)
- AGRS 210 - Agricultural Marketing (3)
- AGRS 110 - Integrated Pest Management (3)
- General Elective (2)

**Freshman Year, Fall Semester: 14 credits**
- MATH 108 - Technical Mathematics (4)
- AGRS 100 - Practical Crop Production (3)
- AGRS 100L - Practical Crop Production Laboratory (1)
- AGRS 105 - Animal Science (3)
- ACCT 105 - Principles of Financial Accounting (3)

**Freshman Year, Spring Semester: 15 credits**
- ENGL 111 - English Composition (3)
- AGRS 102 - Agriculture Economics (3)
- AGRS 205 - Farm/Ranch Management (3)
- CISB 101 - Business Info Technology (3)
- Essential Learning - Social Science, Natural Science, Fine Arts, or Humanities (3)

**Summer: 5 credits**
- AGRS 293 - Co-op Work Experience (5)

**Sophomore Year, Fall Semester: 13 credits**
- ENGL 112 - English Composition (3)
- AGRS 240 - Introduction to Soil Science (3)
- AGRS 240L - Introduction to Soil Science Laboratory (1)
- AGRS 125 - Agricultural Machinery (3)
- AGRS 208 - Agriculture Finance (3)

**Sophomore Year, Spring Semester: 13 credits**
- KINA 1XX Activity (1)
- KINE 100 - Health and Wellness (1)
- Essential Learning - Social Science, Natural Science, Fine Arts, or Humanities (3)
- AGRS 210 - Agricultural Marketing (3)
- General Elective (2)
- General Elective (3)