

# AGRICULTURE

## Faculty

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Classes in agriculture are arranged to meet the needs of students who wish to complete their formal college work at Casper College or for persons who plan to obtain a bachelor's degree elsewhere. Every effort is made to assist students in selecting a program which will fit their needs. Modern agriculture is a business and a science as well as a way of life, and the faculty recognizes that it is as important to produce alert and well-informed citizens as it is to train competent farmers and ranchers.

## Associate of Science Degree Agriculture

### (Recommended Curriculum)

General Education (Minimum 32 credits) Credits  
General education coursework can be completed from within or outside of the major field of study.

1. Exploration and Participation
  - BIOL 1010 General Biology I . . . . . 4
  - BIOL 2022 Animal Biology . . . . . or
  - BIOL 2023 Plant and Fungal Biology . . . . . 4
  - CHEM 1005 Basic Chemistry I . . . . . 3
  - CHEM 1006 Basic Chemistry Lab I . . . . . 1
  - Mathematics . . . . . 3
2. Communication
  - ENGL 1010 English I: Composition . . . . . 3
  - ENGL 1020 English II: Composition . . . . . 3
3. Relationship with the World
  - Human behavior . . . . . 3
  - U.S. and Wyoming constitutions . . . . . 3
  - Cultural environment . . . . . 3
4. General Education Electives
  - Must be chosen from areas 1, 2, or 3 above.
5. Physical Education . . . . . 1

### Major Requirements

- AGEC 1010 Agriculture Economics I . . . . . 3
- AGEC 1020 Agriculture Economics II . . . . . 3
- AGEC 2010 Farm-Ranch Business Records . . . . . 3
- AGEC 2020 Farm-Ranch Business Management . . 4
- AGRI 1010 Computers in Agriculture . . . . . 2
- ANSC 1010 Livestock Production I . . . . . or
- CROP 2000 Plants, Agriculture and Civilization . . . . 4
- ANSC 1020 Livestock Production II . . . . . or
- CROP 2200 Forage Crop Science . . . . . 3-4
- ANSC 2110 Beef Production . . . . . 3
- ANSC 2120 Sheep Production . . . . . 3

**Approved electives:** AGECE 2300, AGECE 2370, AGRI 1020, AGRI 2000, AGRI 2010, AGRI 2475, ANSC 1030, ANSC 1100, ANSC 1150, ANSC 1200, ANSC 1210, ANSC 1220, ANSC 2020, ANSC 2130, ANSC 2230, CO/M 1010, CO/M 1030, ECON 1010, FDSC 2100, PSYC 1000, REWM 1000, REWM 2000, SOC 1000, SOIL 1000.

A minimum of 64 approved semester credits are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

The above curriculum meets the requirements for the associate of science degree. Substitutions may be made to comply with the requirements of the institution to which a student may desire to transfer.

ONLY COURSES NUMBERED 1000 OR ABOVE CAN BE USED TOWARD THE ASSOCIATE OF SCIENCE DEGREE.

## Associate of Science Degree Agri-Business

The agricultural business curriculum is offered for students who are planning a career in agri-business. This includes farming and ranching and jobs in agriculture related businesses such as farm equipment companies, fertilizer sales, feed companies, and commercial banks as well as other farm credit agencies. Numerous sales and management positions are available with the agricultural marketing industries which form the connecting link between farmers and consumers.

### (Recommended Curriculum)

General Education (Minimum 32 credits) Credits  
General education coursework can be completed from within or outside of the major field of study.

1. Exploration and Participation
  - Biology Science with Lab . . . . . 4
  - Physical Science with Lab . . . . . or
  - MATH 2350 Business Calculus I . . . . . 4
  - MATH 1400 Pre-Calculus Algebra I (or higher) . . . . . 4
2. Communication
  - ENGL 1010 English I: Composition . . . . . 3
  - ENGL 1020 English II: Composition . . . . . 3
3. Relationship with the World
  - Human behavior . . . . . 3
  - U.S. and Wyoming constitutions . . . . . 3
  - Cultural environment . . . . . 3
4. General Education Electives
  - Must be chosen from areas 1, 2, or 3 above.
5. Physical Education . . . . . 1

### Major Requirements

- ACCT 2010 Principles of Accounting I . . . . . 4
- AGEC 1010 Agriculture Economics I . . . . . 3
- AGEC 1020 Agriculture Economics II . . . . . 3
- AGEC 2010 Farm-Ranch Business Records . . . . . 3
- AGEC 2020 Farm-Ranch Business Management . . 4
- AGEC 2300 Agricultural Marketing . . . . . 3
- AGRI 1010 Computers in Agriculture . . . . . 2
- Approved Electives . . . . . 10

**Recommended electives:** ACCT 2020, AGRI 1020, AGRI 2000, AGRI 2010, AGTK 1570, AGTK 1580, AGTK 1590, ANSC 1010, ANSC 1020, ANSC 1200, ANSC 1210, ANSC 1030, ANSC 1220, ANSC 2020, ANSC 2110, ANSC 2120, ANSC 2130, ANSC 2230, BADM 1000, BADM 1020, BADM 1025, BADM 2010, BADM 2040, BADM 2100, BADM 2195, BADM 2245, BANK 1500, BANK 2930, CO/M 1010, CO/M 1030, CROP 2000, FDSC 2100, MATH 2350, REWM 1000, REWM 2000, SOIL 1000, STAT 2050.

A minimum of 64 approved semester credits are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

ONLY COURSES NUMBERED 1000 OR ABOVE CAN BE USED TOWARD THE ASSOCIATE OF SCIENCE DEGREE.

### Associate of Science Degree Animal Science

This degree program will meet the needs of students who plan on transferring to a university to continue their studies in animal science.

#### (Recommended Curriculum)

General Education (Minimum 32 credits) Credits  
General education coursework can be completed from within or outside of the major field of study.

1. Exploration and Participation
  - BIOL 1010 General Biology I . . . . . 4
  - CHEM 1005 Basic Chemistry I . . . . . 3
  - CHEM 1006 Basic Chemistry Lab I . . . . . 1
  - MATH 1400 Pre-Calculus Algebra . . . . . 4
2. Communication
  - ENGL 1010 English I: Composition . . . . . 3
  - ENGL 1020 English II: Composition . . . . . 3
3. Relationship with the World
  - Human behavior . . . . . 3
  - U.S. and Wyoming constitutions . . . . . 3
  - Cultural environment . . . . . 3
4. General Education Electives
  - Must be chosen from areas 1, 2, or 3 above.
5. Physical Education . . . . . 1

#### Major Requirements

- AGEC 1010 Agriculture Economics I . . . . . 3
- ANSC 1010 Livestock Production I . . . . . 4
- ANSC 1020 Livestock Production II . . . . . 3
- ANSC 1100 Artificial Insemination . . . . . 1
- ANSC 1150 Animal Diseases . . . . . 2
- ANSC 2020 Feeds and Feeding . . . . . 4
- ANSC 2110 Beef Production . . . . . 3
- ANSC 2120 Sheep Production . . . . . 3
- ANSC 2130 Swine Production . . . . . 3
- BIOL 2022 Animal Biology . . . . . 4
- FDSC 2100 Meat Evaluation . . . . . 3

**Approved electives:** AGECE 1020, AGECE 2010, AGECE 2300, AGECE 2370, AGRI 1010, AGRI 1020, AGRI 2000, AGRI 2010, AGRI 2475, ANSC 1030, ANSC 1200, ANSC 1210, ANSC 1220, ANSC 2020, ANSC 2490, CO/M 1010, CO/M 1030, CROP 2000, CROP 2200, REWM 1000, REWM 2000, SOIL 1000.

A minimum of 64 approved semester credits are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

ONLY COURSES NUMBERED 1000 OR ABOVE CAN BE USED TOWARD THE ASSOCIATE OF SCIENCE DEGREE.

### Associate of Science Degree Range Management

This program is designed to introduce students to the science of range ecology and range management. Students will be exposed to all aspects necessary in range management and ecology such as soils, plant science, and livestock nutrition. This degree program will also meet the needs of students who plan on transferring to a university to continue their studies in range management/range ecology.

#### (Recommended Curriculum)

General Education (Minimum 32 credits) Credits  
General education coursework can be completed from within or outside of the major field of study.

1. Exploration and Participation
  - BIOL 1010 General Biology I . . . . . 4
  - CHEM 1005 Basic Chemistry I . . . . . 3
  - CHEM 1006 Basic Chemistry Lab I . . . . . 1
  - MATH 1400 Pre-Calculus Algebra . . . . . 4
2. Communication
  - ENGL 1010 English I: Composition . . . . . 3
  - ENGL 1020 English II: Composition . . . . . 3
3. Relationship with the World
  - Human behavior . . . . . 3
  - U.S. and Wyoming constitutions . . . . . 3
  - Cultural environment . . . . . 3
4. General Education Electives
  - Must be chosen from areas 1, 2, or 3 above..
5. Physical Education . . . . . 1

#### Major Requirements

- AGEC 1010 Agriculture Economics I . . . . . 3
- ANSC 1010 Livestock Production I . . . . . 4
- BIOL 2023 Plant and Fungal Biology . . . . . 4
- BIOL 2400 Ecology . . . . . 3
- CROP 2000 Plants, Agriculture and Civilization . . . . . 4
- CROP 2200 Forage Crop Science . . . . . 4
- REWM 1000 Introduction to Range Management . . . . . 1
- REWM 2000 Principles of Range Management . . . . . 3
- SOIL 1000 Elementary Soils . . . . . 3
- Electives . . . . . 4

**Approved electives:** AGEC 2010, AGEC 2300, AGEC 2370, AGRI 1010, AGRI 1020, AGRI 2000, AGRI 2010, AGRI 2475, ANSC 1020, ANSC 1030, ANSC 1100, ANSC 1150, ANSC 1200, ANSC 1210, ANSC 1220, ANSC 2020, ANSC 2110, ANSC 2120, ANSC 2490, BIOL 2410, CO/M 1010, CO/M 1030.

A minimum of 64 approved semester credits are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

ONLY COURSES NUMBERED 1000 OR ABOVE CAN BE USED TOWARD THE ASSOCIATE OF SCIENCE DEGREE.

### Associate of Applied Science Degree Agri-Business

The agri-business terminal curriculum is designed to serve the needs of those students who do not plan to transfer to a four-year institution and who are desirous of a combination of agriculture and business courses which will aid them in entering production agriculture or in becoming employed in a related industry, i.e., feed industry, fertilizer sales, etc.

#### (Recommended Curriculum)

General Education (Minimum 17 credits)	Credits
General education coursework can be completed from within or outside of the major field of study.	
1. Exploration and Participation (One course minimum)	
Science	
Mathematics	
2. Communication (One course minimum)	
Written or spoken communication	
3. Relationship with the World (One course minimum)	
Human behavior	
U.S. and Wyoming constitutions . . . . .	1-3
Cultural environment	
4. General Education Electives	
Must be chosen from areas 1, 2, or 3 above.	
5. Physical Education . . . . .	1

#### Major Requirements

ACCT 1905 Practical Accounting I . . . . .	or
ACCT 2010 Principles of Accounting I . . . . .	4
AGEC 1010 Agriculture Economics I . . . . .	3
AGEC 1020 Agriculture Economics II . . . . .	3
AGEC 2010 Farm-Ranch Business Records . . . . .	3
AGEC 2020 Farm-Ranch Business Managements . . . . .	4
AGEC 2300 Agricultural Marketing . . . . .	3
AGRI 1010 Computers in Agriculture . . . . .	2
AGRI 1020 Advanced Agricultural Computers . . . . .	2
ANSC 1010 Livestock Production I . . . . .	or
CROP 2000 Plants, Agriculture and Civilization . . . . .	4
ANSC 1020 Livestock Production II . . . . .	or
CROP 2200 Forage Crop Science . . . . .	3-4
*Electives . . . . .	19

**Recommended electives:** AGRI 2000, AGRI 2010, AGRI 2475, ANSC 1030, ANSC 1100, ANSC 1150, ANSC 1200, ANSC 1210, ANSC 1220, ANSC 2020, ANSC 2110, ANSC 2120, ANSC 2130, ANSC 2230, BADM 1000, BADM 1030, BADM 2010, CO/M 1030, ECON 1010, FDSC 2100, MGT 2100, MKT 2100, PSYC 1000, REWM 1000, REWM 2000, SOC 1000.

\*Electives: Any appropriate business or agriculture course may be taken for elective credit with departmental approval. Recommended business electives are sales (2), advertising (3), retail merchandising (3). Work experience for credit can be arranged if desired, one to six maximum.

A minimum of 64 approved semester credits are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

### Associate of Applied Science Degree Animal Science Technology

This two-year course of study is designed to provide the training and skills necessary to enter some phase of livestock production either as an employee or as a farmer or rancher.

Students following this curriculum will qualify for the associate of science degree; however, courses in either business or farm mechanics may be substituted for some of the courses shown, and the program can be tailored to the student's needs.

#### (Recommended Curriculum)

General Education (Minimum 17 credits)	Credits
General education coursework can be completed from within or outside of the major field of study.	
1. Exploration and Participation	
BIOL 1010 General Biology I . . . . .	4
BIOL 2022 Animal Biology . . . . .	4
2. Communication (One course minimum)	
Written or spoken communication	
3. Relationship with the World (One course minimum)	
Human behavior	
U.S. and Wyoming constitutions . . . . .	1-3
Cultural environment	
4. General Education Electives	
Must be chosen from areas 1, 2, or 3 above.	
5. Physical Education . . . . .	1

#### Major Requirements

AGEC 2010 Farm-Ranch Business Records . . . . .	3
AGEC 2020 Farm-Ranch Business Management . . . . .	4
AGTK 1610 Farm Shop I . . . . .	3
ANSC 1010 Livestock Production I . . . . .	or
CROP 2000 Plants, Agriculture and Civilization . . . . .	4
ANSC 1020 Livestock Production II . . . . .	or
CROP 2200 Forage Crop Science . . . . .	3-4
ANSC 1030 Equine Management . . . . .	3
ANSC 1210 Livestock Judging I . . . . .	5
ANSC 2020 Feeds and Feeding . . . . .	4
ANSC 2110 Beef Production . . . . .	3
ANSC 2120 Sheep Production . . . . .	3
REWM 2000 Principles of Range Management . . . . .	3
Electives . . . . .	3

**Recommended electives:** AGRI 2000, AGRI 2010, AGRI 2475, ANSC 1100, ANSC 1150, ANSC 1200, ANSC 1210, ANSC 1220, ANSC 2020, ANSC 2110, ANSC 2120, ANSC 2130, ANSC 2230, BADM 1000, BADM 1030, BADM 2010, CO/M 1030, ECON 1010, FDSC 2100, MGT 2100, MKT 2100, PSYC 1000, REWM 1000, SOC 1000.

A minimum of 64 approved semester credits are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

## LIVESTOCK JUDGING TEAM

The livestock judging team is a very important part of the agricultural department at Casper College.

The team is restricted to those students enrolled in a livestock judging class. Any interested student may enroll in the course and become eligible for the team, regardless of prior experience.

The training necessary to compete is taught as a part of the regular course content. The course is individualized, considering each participant's level of competence.

The team competes on the local, regional, and national levels, and has been very successful, winning numerous awards at all levels of competition. Additional information may be obtained by contacting the agriculture department at Casper College.