

# AGRICULTURE DEPARTMENT

## PROGRAM SUMMARY AND GUIDE 2018-2019

Welcome to Feather River College where our outstanding staff provide hands-on agriculture education at a state of the art facility. The program specializes in teaching general agriculture, equestrian and rodeo skills, providing students with a variety of employment prospects, the opportunity to earn a bachelor degree, or transfer to a four-year university. Students can gain a Bachelor of Science Degree in Equine and Ranch Management, Associate of Science degrees and Certificates in several areas in the field of Agriculture with an emphasis on the Equine Industry.

Upon degree completion, graduates will acquire the following student learning outcomes:

- Theoretical knowledge, practical experience and skills of modern procedures reflecting the technology and science based nature of agriculture and animal resource management,
- Knowledge of concepts and theories with a balance between production and protection of soil, plant, and animal resources,
- An ability to analyze data and solve problems related to the agricultural field utilizing the scientific method,
- A proficiency in critical thinking, reading, writing, and oral language skills in the agriculture occupational context,
- An ability to enter employment in a field of agriculture or transfer to a College of Agriculture at a four-year University.

As the Department Chair, I would enjoy talking with you, or have you contact Crystal Anderson, our Instructional Assistant and Operations Coordinator. The Agriculture and Equine Studies faculty are proud of our program and students. We look forward to sharing our experiences and information with you. If you wish to schedule a visit, please feel free to call us at 1-800-442-9799, ext. 272, or email at [equinestudies@frc.edu](mailto:equinestudies@frc.edu).

FRC is committed to providing you with an excellent college education and experience.

Sincerely,  
Russell Reid  
Agriculture Department Chair



### Available Degrees and Certificates

#### BACHELOR OF SCIENCE

Equine and Ranch Management

#### ASSOCIATE OF SCIENCE

##### Associate of Science Degree

- Equine Studies: Horse Training Skills
- Equine Studies: Ranch Skills
- Equine Studies: Rodeo Skills
- Equine Studies: Pack Skills
- University Studies-Agriculture: General Agriculture
- University Studies-Agriculture: Agricultural Science

#### CERTIFICATES

##### Certificate of Achievement

- Equine Studies

##### Certificate of Specialization

- General Agriculture
- Ranch Technology
- Fundamentals of Ranch Skills
- Fundamentals of Horse Training Skills
- Fundamentals of Pack Station & Stable Operations
- Fundamentals of Rodeo Techniques

#### OTHER HIGHLIGHTS

- Championship Intercollegiate Rodeo Program
- Annual College Production Horse Sale
- Horse Training Clinics & Seminars
- On Campus Student Horse Boarding
- Horse Show and Riding Clubs



Pictured left to right: Emily Richards (student), Russell Reid (Department Chair), Russell Hansen (student). Dodds 2007

# CAREER OPPORTUNITIES AND ASSISTANCE



## CAREER OPTIONS

- Agricultural Inspectors
- Animal Breeders
- Foaling Attendants
- Graders & Sorters of Agricultural Products
- Agricultural Equipment Operators
- Farmworkers and Laborers
- Welding Fabrication
- Farm or Ranch Managers
- Agricultural Technicians
- Animal Care Takers
- Animal Trainers
- Veterinary Assistants
- Animal Science Technicians
- Horse Trainers
- Horse Sale Organizers
- Pack Guides
- Riding Stable Wranglers
- Breeding Producers
- Rodeo Producers
- Riding Instructors

**Career options for Agriculture and Equine Studies majors are limitless when combined with a Bachelor's or post graduate degree.**

## JOB OUTLOOK

Employment opportunities in the field of Agriculture are expected to remain strong in the coming decade. According to USDA's Cooperative State Research, Education, and Extension Service and Purdue University, approximately 52,000 annual job openings will be available for an estimated 49,300 qualified graduates with a degree in Agriculture. Most of these opportunities will be in management and business; however, graduates can expect the best opportunities to lie in sales and marketing, veterinary medical specialties, precision agriculture technologies, landscape and horticulture crops, plant and animal genetics, animal health and well-being.

## CAREER ASSISTANCE AT FRC

**Academic Counseling:** Development of a Student Educational Plan (SEP) to ensure that the student meets all general education, certificate, degree, and transfer requirements. Contact Sean to make an appointment at ext. 313.

**Academic Advising:** Discipline-specific information for the Agriculture Program. Students are encouraged to see their advisor first to prepare them for the academic counseling session. Contact the Agriculture Department at ext. 272 or Rodeo Coach, Jesse Segura at ext. 306.

**Career/Transfer Center:** Career and transfer counseling; computerized career information; local employment information, vocational interest and aptitude testing; scholarship database program; and four-year college catalogs.

**Work Experience-Education:** Occupational training programs combined with college credit that can be applied toward transfer and/or an Associate Degree including AG 291 Directed Study, AG 295 Community Service Learning in Agriculture, AG 299 Special Topics in Agriculture, AGEQ 299 Special Projects in Equine Studies, or AGEQ 296, 297, 298, Special Projects in Equine Studies Fall-Winter, Spring Summer. Discuss these opportunities with Russell Reid, Agriculture Department Chair.

## FEATHER RIVER COLLEGE • AGRICULTURE

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# AGRICULTURE FACILITIES

## HORSE BOARDING



### THE EQUINE FACILITY AND HORSE BOARDING



Students enrolled in Equine Studies classes have the opportunity to board their horses on campus. The Equine Studies Facility consists of a 12,000 square foot building that includes an 80 x 100 ft. arena, student boarding tack room and grain room. Facilities also include an outdoor 150 x 300 ft. riding arena, 55 horse stalls, 3 round pens measuring 40, 60, and 150 ft., catch pens, pasture, and mechanical cow arena. Please contact Crystal at extension 272 for more information on boarding your horse at the Equine Facility.

There is access to thousands of miles of trails for those who are trail riding enthusiasts. There are several local Veterinarians available by appointment or emergency as well as a nearby surgical facility. Several farriers are available for student horses as well.

Horse ownership is not necessary to participate in the program. FRC has its own string of riding horses, young horses in training, several AQHA stallions, and band of brood mares. The breeding stock provides students with practical experience in horse production and training that extends from management of the broodmare, stallion, and foal through the training and raising of young stock. This includes the training of two year olds to be ridden and preparing three-to-five year olds for Feather River College's Annual Production Horse Sale along or other local horse sales.

### THE RODEO FACILITY AND HORSE BOARDING



The Rodeo Facility is also located on the college FRC campus. It is comprised of a 140' x 240' WW arena, a 50' x 200' calf roping lane, feedlot for stock, and 65 student horse stalls. Contact Riley York at extension 306 for more information on boarding your horse at the Rodeo Facility.

The FRC Rodeo Program believes that practice is very important. They have 60 steers, 60 calves at least 45 bucking horses, and as many bulls as are needed. The rodeo stock is from top notch contractors and will help develop the skills of any competitor at any level.





# UNIVERSITY STUDIES-AGRICULTURE

The courses offered in Agriculture are designed to prepare students for a variety of professions or occupations in agriculture or transfer to a higher institution. University transfers may take agricultural courses appropriate to the majors and programs of the institutions to which they are transferring. The University Studies- Agriculture option also prepares students for the Equine and Ranch Management Bachelor of Science Degree.

## Student Learning Outcomes:

The student will be able to:

- Demonstrate the ability to listen and engage in verbal communication through participation in discussions/ debates and oral presentations, the ability to compose and create papers with correct grammar, spelling, punctuation, and appropriate language, style, and format, which conform to Modern Language Association style in in text source citations and works-cited pages,
- Demonstrate critical thinking skills through the application of logic to the solution of a variety of problems,
- Systematically collect, organize, and present appropriate data from a variety of sources including independent research, written journals and the Internet,
- Apply the scientific method by formulating a hypothesis; re-searching the topic; determining appropriate tests; performing tests; collecting, analyzing, and presenting data; and finally proposing new questions about the topic,
- Demonstrate an awareness of the scope and variety of works in the arts and humanities and articulate the value of aesthetics and creativity,
- Analyze an individual's civic responsibilities within the context of the basic principles of American national, state, and local governments, contents of the U.S. Constitution and Amendments and the electoral process,
- Identify and explain cultural customs, beliefs, traditions, and lifestyles and interpret how biases, assumptions and prejudices that impact multicultural interactions may result,
- Apply theoretical knowledge, practical experience and skills of modern procedures reflecting the technology and science based nature of agriculture and animal resource management.

## GENERAL EDUCATION

Students should consult with Feather River College (FRC) Agriculture Department advisors to prepare a *Student Education Plan* to ensure the students' courses will satisfy certification, degree and/or transfer requirements. It may be beneficial to contact the four-year institution where the student intends to transfer to accurately determine the ideal course of action to earn a Bachelor's degree.

Select 12 units from one of the two areas of emphasis to complete your major requirements. Then select 6 units from any of the courses listed under General Agriculture, Agricultural Science, the Agriculture Electives, or any other General Education courses to fulfill transfer requirement to a four-year institution and/or Agriculture career goal.

### ASSOCIATE OF SCIENCE DEGREE REQUIREMENTS

|                              |                |
|------------------------------|----------------|
| General Education            | 42 units       |
| Agriculture Major            | 12 units       |
| <u>Agriculture Electives</u> | <u>6 units</u> |
| Total AS Requirements        | 60 units       |

## AGRICULTURE MAJORS

Choose a total of 12 units from one of the two areas of emphasis to complete your major requirements:

Units

### General Agriculture

|          |  |     |
|----------|--|-----|
| AG 270   | Fundamentals of Agriculture Education and Employment | 0.5 |
| AG 271   | Agriculture Education and Employment                 | 0.5 |
| AGAB 110 | Introduction to Agriculture Business                 | 3   |
| AGAB 112 | Agriculture Sales & Communication                    | 3   |
| AGAB 124 | Agriculture Economics                                | 3   |
| AGAB 150 | Agriculture Computer Applications                    | 3   |
| AGAB 188 | Farm Management                                      | 3   |
| AGMA 108 | Tractor Operation                                    | 3   |
| AGMA 116 | Agriculture Welding                                  | 3   |
| AGMA 146 | Introductory AG Structural Technology                | 3   |
| AGMA 160 | Introduction to Mechanized Agriculture               | 3   |
| AGPS 210 | Introduction to Soil Science                         | 3   |

### Agricultural Science

|          |  |     |
|----------|--|-----|
| AG 270   | Fundamentals of Agriculture Education and Employment | 0.5 |
| AG 271   | Agriculture Education and Employment                 | 0.5 |
| AGAB 150 | Agriculture Computer Applications                    | 3   |
| AGAS 120 | Introduction to Animal Science                       | 3   |
| AGAS 125 | Animal Feeds and Nutrition                           | 3   |
| AGAS 170 | Elements of Beef Cattle Science                      | 3   |
| AGPS 210 | Introduction to Soil Science                         | 3   |
| AGEQ 102 | Elements of Equine Science                           | 3   |
| AGEQ 103 | Western Equitation I                                 | 2   |
| AGEQ 104 | Horse Conformation and Judging                       | 1   |
| AGEQ 106 | Western Equitation II                                | 2   |
| AGEQ 115 | Elements of Horse Training I                         | 0.5 |
| AGEQ 116 | Elements of Horse Training II                        | 0.5 |
| AGEQ 204 | Training Young Horses Under Saddle Fall              | 2   |
| AGEQ 205 | Training Young Horses Under Saddle- Spring           | 2   |
| AGPS 104 | Introduction to Plant Science                        | 3   |
| AGPS 210 | Introduction to Soil Science                         | 3   |

### Example Agriculture Electives

Choose a minimum of 6 units.

|          |  |     |
|----------|--|-----|
| AG 295   | Community Service Learning in Agriculture                          | 1-4 |
| AG 296   | Special Projects in Agriculture                                    | 1-4 |
| AG 299   | Special Topics in Agriculture                                      | 1-4 |
| AGEQ 140 | Introduction to Equine Behavior & Training                         | 2   |
| AGEQ 141 | Equine Behavior & Training   | 2   |
| AGEQ 214 | Handling and Care of the Foal, Weanling and Yearling Horse- Fall   | 1   |
| AGEQ 215 | Handling and Care of the Foal, Weanling and Yearling Horse- Spring | 1   |
| AGMA 132 | Advanced Agriculture Welding                                       | 3   |



**EXAMPLE SCHEDULE:  
AS UNIVERSITY STUDIES - AGRICULTURE**

*Suggested sequence of courses: Not all classes may be available during semester indicated.  
Please make an appointment with the Agriculture Advisor at 530-283-02020 ext. 313 to discuss your courses.*

|                                   |   | Units        |
|-----------------------------------|---|--------------|
| <b>First Semester<br/>Fall</b>    | Agriculture Major                                     | 3            |
|                                   | Agriculture Elective                                  | 3            |
|                                   | ENGL 101: Composition and Reading I                   | 3            |
|                                   | MATH 110: College Algebra                             | 4            |
|                                   | ENGL 128: Film Appreciation                           | <u>3</u>     |
|                                   | Total   | 16           |
| <b>Second Semester<br/>Spring</b> | Agriculture Major                                     | 3            |
|                                   | Agriculture Elective                                  | 3            |
|                                   | HIST 108: The United States to 1877                   | 3            |
|                                   | BIOL 100: Concepts in Biology                         | 4            |
|                                   | ENGL 120: Speech                                      | <u>3</u>     |
|                                   | Total   | 16           |
| <b>Third Semester<br/>Fall</b>    | Agriculture Major                                     | 3            |
|                                   | ENGL 103: Critical Thinking and Writing               | 3            |
|                                   | BUS 106: Principles of Economics Macro                | 3            |
|                                   | CHEM 102: General Inorganic Chemistry I with Lab      | 4            |
|                                   | ART 100: Art Appreciation                             | <u>3</u>     |
|                                   | Total   | 16           |
| <b>Fourth Semester<br/>Spring</b> | Agriculture Major                                     | 3            |
|                                   | PSYC 102: Introductory Psychology                     | 3            |
|                                   | MATH 202: Elementary Statistics (optional)            | 4 (optional) |
|                                   | PHIL 100: Introduction to Philosophy                  | 3            |
|                                   | POL 101: Government and Politics in the United States | <u>3</u>     |
|                                   | Total   | 12-16        |

**Total units to earn Associate of Science: 60 units**

For General Education classes, please see the Feather River College Catalog

**Each course counted toward the unit requirement of a major must be completed with a “C” grade or better.**

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Department Chair: Russell Reid

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# EQUINE STUDIES ASSOCIATE OF SCIENCE

The courses offered in Equine Studies are designed to prepare students for a variety of professions in the horse industry or a bachelor's degree. Students preparing for immediate entry into a horse career will find practical hands on courses designed to assist them in achieving their occupational goals. Through study and applied practice, students prepare for careers in four basic Equine Studies concentrations: Pack Skills, Ranch Skills, Horse Training Skills, and Rodeo Skills.

## Student Learning Outcomes:

The student will be able to:

- Demonstrate proficiency in practical application and skills for successful equine practices related to ranch skills, horse training skills, pack skills or rodeo skills,
- Establish an understanding of the Equine Industry and acquire knowledge in the vocabulary and related terminology,
- Integrate practical applications and skills to develop the relationship between horses and humans in a learning and changing environment,
- Develop an ability to analyze data, solve problems, apply critical reading, writing, and oral language skills in the equine science occupational context through the application of general education courses,
- Gain employment in a field that pertains to agriculture or equine science or transfer to a College of Agriculture at a four-year University.

## EQUINE STUDIES CONCENTRATIONS

Choose from one or more of the four following concentrations to complete your major requirements:

### PACK SKILLS

- AGEQ 107 Elements of Pack Station & Stable Operations.....3
- AGEQ 108 Fundamentals of Pack Station & Stable Operations Field Experience.....2
- AGEQ 109 Pack Station & Stable Operations Field Experience..2

### RANCH SKILLS

- AGEQ 210 Introduction to Ranch Work with Horses.....2
- AGEQ 211 Applied Ranch Work with Horses I .....2
- AGEQ 212 Applied Ranch Work with Horses II .....2
- AGEQ 225 Ranch Horsemanship.....0.5
- AGEQ 226 Advanced Horsemanship.....0.5

### HORSE TRAINING SKILLS

- AGEQ 204 Training Young Horses Under Saddle- Fall .....2
- AGEQ 205 Training Young Horses Under Saddle- Spring.....2
- AGEQ 206 Adv. Training Young Horses Under Saddle.....2
- AGEQ 116 Elements of Horse Training II.....0.5
- AGEQ 226 Advanced Horsemanship.....0.5

### RODEO SKILLS

- |   |   |
|---|---|
| AGEQ 180 Rodeo Skills & Techniques - Men<br><b>OR</b> ..... | 2 |
| AGEQ 181 Rodeo Skills & Techniques - Women                  |   |

- AGEQ 182 Intercollegiate Rodeo .....2
- AGEQ 184 Advanced Intercollegiate Rodeo .....2
- AGEQ 186 Rodeo Production .....1

## ASSOCIATE OF SCIENCE

### Degree Requirements

|  |           |
|--|-----------|
| Major Requirements .....                         | 30        |
| Minimum FRC General Education Requirements.....  | 24        |
| Minimum FRC General Elective Course Units .....  | 6         |
| <b>Total Associate Degree Requirements .....</b> | <b>60</b> |

### REQUIRED COURSES FOR MAJOR

#### UNITS

|  |     |
|--|-----|
| AGAS 120 Introduction to Animal Science<br><b>OR</b> .....                               | 3   |
| AGAS 125 Animal Feeds and Nutrition  |     |
| AGEQ 009 Draft Horse Driving I .....   | 0.5 |
| AGEQ 102 Elements of Equine Science .....  | 3   |
| AGEQ 103 Western Equitation I .....  | 2   |
| AGEQ 104 Horse Conformation and Judging .....  | 1   |
| AGEQ 106 Western Equitation II.....  | 2   |
| AGEQ 115 Elements of Horse Training I .....  | 0.5 |
| AGEQ 123 Introduction to Farrier Science.....  | 1   |
| AGEQ 140 Intro to Equine Behavior & Training.....  | 2   |
| AGEQ 141 Equine Behavior & Training .....  | 2   |
| AGEQ 214 Handling & Care of the Foal, Weanling, & Yearling Horse Fall<br><b>OR</b> ..... | 1   |
| AGEQ 215 Handling & Care of the Foal, Weanling, & Yearling Horse Spring                  |     |

|  |     |
|--|-----|
| AG 270 Fundamental of Agriculture Education & Employment ..... | 0.5 |
|--|-----|

Agriculture Electives ..... Minimum of 4.5

**Total Core Requirements .....** 23

**Concentrations (choose one area) .....** 7

**Total Major Requirements.....** 30

**Each course counted toward the unit requirement of a major must be completed with a "C" grade or better**



## EXAMPLE SCHEDULE: AS EQUINE STUDIES: CONCENTRATION IN HORSE TRAINING SKILLS

*Suggested sequence of courses: Not all classes may be available during semester indicated.  
Please make an appointment with the Agriculture Advisor at 530-283-0202 ext. 313 to discuss your courses.*

|                                   |   | Units   |
|-----------------------------------|---|---|
| <b>First Semester<br/>Fall</b>    | AGEQ 009: Draft Horse Driving I<br>AGEQ 102: Elements of Equine Science<br>AGEQ 103: Western Equitation I<br>AGEQ 104: Horse Conformation and Judging<br>AGEQ 115: Elements of Horse Training I<br>AGEQ 140: Intro. To Equine Behavior & Training<br>AGEQ 204: Training Young Horses Under Saddle Fall<br>AG 270: Fundamentals of Agriculture Education and Employment<br>General Education | 0.5<br>3<br>2<br>1<br>0.5<br>2<br>2<br>0.5<br><u>3-6</u><br>Total 14.5-17 |
| <b>Second Semester<br/>Spring</b> | AGEQ 106: Western Equitation II<br>AGEQ 116: Elements of Horse Training II<br>AGEQ 123: Introduction to Farrier Science<br>AGEQ 141: Equine Behavior & Training<br>AGEQ 205: Training Young Horses Under Saddle Spring<br>AGAS 120/125: Intro. to Animal Science or Animal Feeds and Nutrition<br>General Education   | 2<br>0.5<br>1<br>2<br>2<br>3<br><u>3-7</u><br>Total 13.5-17.5             |
| <b>Third Semester<br/>Fall</b>    | AGEQ 206: Advanced Training Young Horses Under Saddle<br>AGEQ 214: Handling & Care of the Foal, Weanling & Yearling Fall<br>Agriculture Elective<br>General Education   | 2<br>1<br>0.5-3<br><u>9-12</u><br>Total 13.5-19.5                         |
| <b>Fourth Semester<br/>Spring</b> | AGEQ 226: Advanced Horsemanship<br>Agriculture Elective<br>General Education  | 0.5<br>4.5<br><u>9-12</u><br>Total 14-17                                  |

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## EXAMPLE SCHEDULE: AS EQUINE STUDIES: CONCENTRATION IN PACK SKILLS

*Suggested sequence of courses: Not all classes may be available during semester indicated.  
Please make an appointment with the Agriculture Advisor at 530-283-02020 ext. 313 to discuss your courses.*

|                                   |  | Units       |
|-----------------------------------|--|-------------|
| <b>First Semester<br/>Fall</b>    | AGEQ 009: Draft Horse Driving I                                      | 0.5         |
|                                   | AGEQ 102: Elements of Equine Science                                 | 3           |
|                                   | AGEQ 103: Western Equitation I                                       | 2           |
|                                   | AGEQ 104: Horse Conformation and Judging                             | 1           |
|                                   | AGEQ 115: Elements of Horse Training I                               | 0.5         |
|                                   | AGEQ 140: Intro. To Equine Behavior & Training                       | 2           |
|                                   | AG 270: Fundamentals of Agriculture Education and Employment         | 0.5         |
|                                   | General Education  | <u>6-9</u>  |
|                                   | Total  | 15.5-18.5   |
| <b>Second Semester<br/>Spring</b> | AGEQ 106: Western Equitation II                                      | 2           |
|                                   | AGEQ 123: Introduction to Farrier Science                            | 1           |
|                                   | AGEQ 141: Equine Behavior & Training                                 | 2           |
|                                   | AGEQ 107: Elements of Pack Station & Stable Operations               | 3           |
|                                   | AGEQ 108: Pack Station & Stable Operations Field Experience          | 2           |
|                                   | AGAS 120/125: Intro. to Animal Science or Animal Feeds and Nutrition | 3           |
|                                   | General Education  | <u>3-6</u>  |
|                                   | Total  | 16-19       |
| <b>Third Semester<br/>Fall</b>    | AGEQ 109: Advanced Pack Station & Stable Operations Field Exp.       | 2           |
|                                   | Agriculture Elective   | 0.5-3       |
|                                   | General Education  | <u>9-12</u> |
|                                   | Total  | 12-17.5     |
| <b>Fourth Semester<br/>Spring</b> | AGEQ 215: Handling & Care of the Foal, Weanling & Yearling Spring    | 1           |
|                                   | Agriculture Elective   | 0.5-3       |
|                                   | General Education  | <u>9-12</u> |
|                                   | Total  | 12-17.5     |

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## EXAMPLE SCHEDULE: AS EQUINE STUDIES: CONCENTRATION IN RANCH SKILLS

*Suggested sequence of courses: Not all classes may be available during semester indicated.  
Please make an appointment with the Agriculture Advisor at 530-283-0202 ext. 313 to discuss your courses.*

Units

|                                   |  |   |
|-----------------------------------|--|---|
| <b>First Semester<br/>Fall</b>    | AGEQ 102: Elements of Equine Science<br>AGEQ 103: Western Equitation I<br>AGEQ 104: Horse Conformation and Judging<br>AGEQ 115: Elements of Horse Training I<br>AGEQ 140: Intro. To Equine Behavior & Training<br>AGEQ 204: Training Young Horses Under Saddle Fall<br>AGEQ 210: Introduction to Ranch Work with Horses<br>AG 270: Fundamentals of Agriculture Education and Employment<br>General Education | 3<br>2<br>1<br>0.5<br>2<br>2<br>2<br>0.5<br><u>3-6</u><br>Total 16-19 |
| <b>Second Semester<br/>Spring</b> | AGEQ 106: Western Equitation II<br>AGEQ 123: Elements of Farrier Science<br>AGEQ 141: Equine Behavior & Training<br>AGEQ 211: Applied Ranch Work with Horses<br>AGAS 120/125: Intro. to Animal Science or Animal Feeds and Nutrition<br>General Education  | 2<br>1<br>2<br>2<br>3<br><u>3-7</u><br>Total 13.5-17.5                |
| <b>Third Semester<br/>Fall</b>    | AGEQ 009: Draft Horse Driving I<br>AGEQ 214: Handling & Care of the Foal, Weanling & Yearling Fall<br>AGEQ 225: Ranch Horsemanship<br>Agriculture Elective<br>General Education  | 0.5<br>1<br>0.5<br>0.5-3<br><u>9-12</u><br>Total 12.5-18              |
| <b>Fourth Semester<br/>Spring</b> | AGEQ 212: Applied Ranch Skills With Horses II<br>AGEQ 226: Advanced Horsemanship<br>Agriculture Elective<br>General Education  | 2<br>0.5<br>0.5-3<br><u>9-12</u><br>Total 12.5-18                     |

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# CERTIFICATES OF ACHIEVEMENT & SPECIALIZATION

*Students preparing for immediate entry into agricultural occupations will find practical hands on courses designed to assist them in achieving their occupational goals.*

- A Certificate of Specialization is 17 units or less, while a Certificate of Achievement is 18 units or more.
- No more than 50% of certificate's units may be taken at another college.
- Certificates are departmental awards. Therefore, faculty advisors will approve petitions to complete certificates.
- Receiving a certificate does not imply that a graduation requirement has been met.
- Only Certificates of Achievement are posted to a student's transcript.
- Certificates will be mailed at the end of the semester during which they were completed.
- Student must maintain a minimum cumulative grade point average of 2.0 for both Certificates of Achievement and Certificates of Specialization.

## CERTIFICATE OF SPECIALIZATION: GENERAL AGRICULTURE

*Introduction to general agriculture topics for employment in various agriculture occupations.*

|          |  | Units |
|----------|--|-------|
| AGAB 110 | Introduction to Agricultural Business              | 3     |
| AGAS 120 | Principles of Animal Science                       | 3     |
| AGAB 150 | Computer Applications in Agriculture               | 3     |
| AG 270   | Fundamentals of Agriculture Education & Employment | 0.5   |

Choose two of the following:

|                                |   |          |
|--------------------------------|---|----------|
| AGAB 188                       | Farm Management                         | 3        |
| AGAS 170                       | Elements of Beef Cattle Science         | 3        |
| AGMA 108                       | Introduction to Tractor Operation       | 3        |
| AGPS 210                       | Introduction to Soil Science            | 3        |
| AGMA 160                       | Introduction to Mechanized Agriculture  | 3        |
| AGMA 084                       | Ranching Operations: Fencing/Irrigation | 3        |
| AGMA 146                       | Intro. to Ag. Structures Technology     | 3        |
| AGMA 140                       | Beginning Agriculture Metal Fabrication | 3        |
| BUS 130                        | Small Business Management               | 3        |
| <u>AGMA 116</u>                | <u>Agriculture Welding</u>              | <u>3</u> |
| Total Certificate Requirements |   | 15.5     |

## CERTIFICATE OF SPECIALIZATION: RANCH TECHNOLOGY

*Practical technical skills for application and employment in ranching occupations.*

|          |  | Units |
|----------|--|-------|
| AGAB 188 | Farm Management                                    | 3     |
| AG 270   | Fundamentals of Agriculture Education & Employment | 0.5   |

Choose Four of the Following:

|                                |   |          |
|--------------------------------|---|----------|
| AGMA 160                       | Introduction to Mechanized Agriculture  | 3        |
| AGMA 108                       | Tractor Operation                       | 3        |
| AGAB 150                       | Computer Applications in Agriculture    | 3        |
| AGMA 140                       | Beginning Agriculture Metal Fabrication | 3        |
| AGMA 084                       | Ranching Operations: Fencing/Irrigation | 3        |
| AGMA 116                       | Agriculture Welding                     | 3        |
| AGMA 146                       | Intro. to Ag. Structures Technology     | 3        |
| AGAS 170                       | Elements of Beef Cattle Science         | 3        |
| <u>AGAS 120</u>                | <u>Introduction to Animal Science</u>   | <u>3</u> |
| Total Certificate Requirements |   | 15.5     |



# EQUINE STUDIES CERTIFICATE OF ACHIEVEMENT & SPECIALIZATION

The Equine Studies Certificates were designed to meet specific occupations goals in the Equine Industry.

## CERTIFICATE OF ACHIEVEMENT: EQUINE STUDIES

|   | Units     |
|---|-----------|
| AGEQ 009 Draft Horse Driving I.....   | 0.5       |
| AGEQ 102 Elements of Equine Science.....  | 3         |
| AGEQ 103 Western Equitation I.....  | 2         |
| AGEQ 104 Horse Conformation & Judging.....  | 1         |
| AGEQ 106 Western Equitation II.....   | 2         |
| AGEQ 115 Elements of Horse Training I.....  | 0.5       |
| AGEQ 116 Elements of Horse Training II.....   | 0.5       |
| AGEQ 123 Introduction to Farrier Science.....   | 1         |
| AGEQ 140 Introduction to Equine Behavior & Training.....                                | 2         |
| AGEQ 141 Equine Behavior & Training.....  | 2         |
| AGEQ 204 Training Young Horses Under Saddle Fall.....                                   | 2         |
| AGEQ 205 Training Young Horses Under Saddle Spring.....                                 | 2         |
| AGEQ 214 Handling & Care of the Foal, Yearling & Weanling Horse Fall                    |           |
| Or .....  | 1         |
| AGEQ 215 Handling & Care of the Foal, Yearling & Weanling Horse Spring                  |           |
| AGEQ 225 Ranch Horsemanship Advanced Horse Training.....                                | 0.5       |
| AGEQ 296-299 Special Projects in Equine Studies.....                                    | 2         |
| AG 270 Fundamentals of Agriculture Education & Employment.....                          | 0.5       |
| AG 271 Agriculture Education & Employment.....  | 0.5       |
| <u>Electives</u> Elective units selected from Agriculture or Equine Studies course list | <u>7</u>  |
| <b>Total certificate requirements .....</b>   | <b>30</b> |

## EQUINE STUDIES CERTIFICATE OF SPECIALIZATION:

### FUNDAMENTALS OF HORSE TRAINING SKILLS

|  |     |
|--|-----|
| AGEQ 103 Western Equitation I.....                             | 2   |
| AGEQ 115 Elements of Horse Training I.....                     | 0.5 |
| AGEQ 116 Elements of Horse Training II.....                    | 0.5 |
| AGEQ 140 Intro to Equine Behavior & Training.....              | 2   |
| AGEQ 141 Equine Behavior & Training.....                       | 2   |
| AGEQ 204 Training Young Horses Under Saddle Fall.....          | 2   |
| AGEQ 205 Training Young Horses Under Saddle Spring.....        | 2   |
| AGEQ 206 Advanced Training Young Horses Under Saddle.....      | 2   |
| AGEQ 225 Ranch Horsemanship.....                               | 0.5 |
| AGEQ 226 Advanced Horsemanship.....                            | 0.5 |
| AG 270 Fundamentals of Agriculture Education & Employment..... | 0.5 |
| AG 271 Agriculture Education & Employment.....                 | 0.5 |

**Total certificate requirements..... 15**

### FUNDAMENTALS OF PACK STATION & STABLE OPERATIONS

|   |     |
|---|-----|
| AGEQ 103 Western Equitation I.....                                    | 2   |
| AGEQ 106 Western Equitation II.....                                   | 2   |
| AGEQ 107 Elements of Pack Station & Stable Operations.....            | 3   |
| AGEQ 108 Fundamentals Pack Station & Stable Operations Field Exp..... | 2   |
| AGEQ 109 Pack Station & Stable Operations Field Exp.....              | 2   |
| AG 270 Fundamentals of Agriculture Education & Employment.....        | 0.5 |
| AG 271 Agriculture Education & Employment.....                        | 0.5 |
| AGAB 188 Farm Management.....   | 3   |

**Total certificate requirements..... 15**

### FUNDAMENTALS OF RANCH SKILLS

Along with the Certificate of Specialization, students can apply the AGEQ 175 Ranch Skills Short Course as a substitute for the following courses when utilized towards the Equine Studies Associate Degree or Equine Studies Certificate of Achievement:

|   |   |
|---|---|
| AGEQ 001 Beginning Western Riding.....          | 2 |
| AGEQ 103 Western Equitation I.....              | 2 |
| AGEQ 210 Intro. to Ranch Work with Horses.....  | 2 |
| AGEQ 211 Applied Ranch Work with Horses I.....  | 2 |
| AGEQ 212 Applied Ranch Work with Horses II..... | 2 |

**Total certificate requirements.....10**

### FUNDAMENTALS OF RODEO TECHNIQUES

|   |          |
|---|----------|
| AGEQ 135 Equine Conditioning I.....                     | 2        |
| AGEQ 182 Intercollegiate Rodeo.....                     | 2        |
| AGEQ 184 Advanced Intercollegiate Rodeo.....            | 2        |
| AGEQ 180 Rodeo Skills & Techniques Men's                |          |
| <b>OR.....</b>  | <b>2</b> |
| AGEQ 181 Rodeo Skills & Techniques Women's              |          |
| AGEQ 186 Rodeo Production.....                          | 1        |
| AGEQ 280 Adv. Rodeo Skills & Techniques Men's           |          |
| <b>OR.....</b>  | <b>2</b> |
| AGEQ 281 Adv. Rodeo Skills & Techniques Women's         |          |
| AG 270 Fund. of Agriculture Education & Employment..... | 0.5      |
| AG 271 Agriculture Education & Employment.....          | 0.5      |
| AG 295 Community Service Learning in Agriculture        |          |
| <b>OR.....</b>  | <b>2</b> |

AGEQ 296-298 Special Projects in Equine Studies

**Total certificate requirements.....14**

## PHILOSOPHY AND HANDS-ON LEARNING OPPORTUNITIES

Students in the Agriculture Department will find practical hands on courses designed to assist them in achieving their occupational goals while at Feather River College. Examples of these hands-on learning opportunities include; riding and training horses, management of breeding stock, foals and young horses, horse sale and rodeo marketing and production, welding and metal fabrication, performance horse exhibition, tractor driving, veterinary care for a variety of livestock, ranch and stable management, and many more examples.

Our **horse training philosophy** comes from a variety of *true* horsemen. Guest lecturers and clinicians have added to our instruction. In the past we have hosted Bryan, Jim, and Luke Neubert, Ray Hunt, Les Vogt, Jack Brainard, Ed Murphy, Nick Dowers, and others. Our instructors use “textbooks” from those horse trainers that we consider to be legends including Bill Dorrance and Leslie Desmond’s *True Horsemanship Through Feel*, Les Vogt’s *Cow Horse U*, Tom Dorrance’s *True Unity*, Ray Hunt’s *Think Harmony With Horses*, Sally Swift’s *Centered Riding*, and Jack Brainard’s *If I Were to Train a Horse*.



## HORSE SHOW TEAM AND STUDENT ORGANIZED EVENTS

**The Horse Show Team**, coached by Lauren Pearson, promotes opportunities for riders of all skill levels to compete in a friendly, fun environment and learn skills to develop both horse and rider. The Horse Show Team’s main focus is in the disciplines that comprise Ranch Horse Versatility (reining, ranch pleasure, trail, ranch conformation, and working cow horse). Schooling shows held on campus incorporate a clinic with the judge followed by a performance evaluation. Students on the Horse Show Team attend horse shows off campus, participate in fundraisers, host social events and volunteer for community events. Feather River College is currently sponsoring at Collegiate Division Versatility Ranch Horse Buckle Series in collaboration with Crooked River Ranch in Orland, CA.

The Equine Studies Program has put on a **horse sale** annually for the past 18 years. The sale features horses that were raised or donated to the Feather River College Foundation and trained by our talented students. Eric Duarte assists FRC with his auctioneering skills while horses are brought into the sale pen and sold to the highest bidder. A versatility competition was incorporated into the preview of the sale horses. Students show the horses working cattle, performing a reining pattern, going through an obstacle course, and are judged on conformation and presentation. The students earn a commission for the sale of their project sale horse.



# INTERCOLLEGIATE RODEO PROGRAM

Feather River College attracts students that are not only athletically inclined but academically motivated. The Feather River College Rodeo Programs twelve years in the West Coast region of the National Intercollegiate Rodeo Association have been very successful, both in the arena and the classroom. The team boasts over 60 members annually, and has been the West Coast regional champions and the 2016 Men's Team National Champions. The team has had two student representatives on the national board of directors for intercollegiate rodeo. And the student athletes G.P.A. have stayed above a 3.1 for the past five years. The student athletes compete in the following events; Bull Riding, Team Roping, Breakaway Roping, Tie Down Roping, Saddle Bronc Riding, Bareback Riding, Steer Wrestling, Goat Tying, and Barrel Racing.



## Goals for FRC Rodeo Program:

- To develop leadership, moral and ethical principles, and a work ethic that will enhance the students potential
- To establish a rodeo program that academically prepares students for their futures at a 4-year university or other career endeavors
- To positively influence the college and community
- To field a competitive team that will enable students the opportunity to compete in regional and national level team and individual championships

## What FRC Offers to Rodeo Team Members:

- Paid expenses for traveling, lodging and meals at NIRA sanctioned events
- Rough-stock and timed-event cattle from top-notch PRCA contractors and competitors, who will also help assist with practices and coaching
- Weekly practices with a "team teaching approach" where students will have their individual needs met
- A complete college fitness center that includes swimming pool, weights, cardio machines, and an exercise physiologist
- Financial assistance and scholarships available for some rodeo expenses such as: horse board, practice, and travel

**For more information about joining the Rodeo Team or contributing towards Rodeo Team Student Scholarships contact Head Coach Riley York at [ryork@frc.edu](mailto:ryork@frc.edu), call extension 306, or check out the website at [www.frc.edu/rodeo](http://www.frc.edu/rodeo).**

AGRICULTURE • FEATHER RIVER COLLEGE

Department Chair: Russell Reid  
[equinestudies@frc.edu](mailto:equinestudies@frc.edu) • 530-283-0202 ext. 272  
 570 Golden Eagle Avenue • Quincy, CA 95971  
[www.frc.edu/agriculture/home.htm](http://www.frc.edu/agriculture/home.htm)

Find us on Facebook: [www.facebook.com/FRC.AG.Department](https://www.facebook.com/FRC.AG.Department) or [www.facebook.com/FRCHorseSale](https://www.facebook.com/FRCHorseSale)





# EQUINE STUDIES SUMMER COURSES

## AGEQ 175: Ranch Skills Short Course



### Fundamentals of Ranch Skills

CERTIFICATE OF COMPLETION

|  | <u>Units</u> |
|--|--------------|
| AGEQ 015 BEGINNING WESTERN RIDING          | 2            |
| AGEQ 103 WESTERN EQUITATION I              | 2            |
| AGEQ 210 INTRODUCTION TO RANCH WORK        | 2            |
| AGEQ 211 APPLIED RANCH WORK WITH HORSES I  | 2            |
| AGEQ 212 APPLIED RANCH WORK WITH HORSES II | 2            |
| <b>TOTAL CERTIFICATE REQUIREMENTS</b>      | <b>10</b>    |

**July 2 - August 3, 2018**  
**Monday-Friday, 8 a.m. – 5 p.m.**

Dorm accommodations can be made by calling Feather River College Student Housing 530-283-9414

**The Ranch Skills Short Course offers an excellent opportunity to get a head start in the Equine Studies Program. This course is highly recommended for all incoming students.**

This five-week summer course uses a practical approach to teaching horseback ranching skills, hands-on roping, riding, and working cattle through lecture, discussions, demonstrations and working experience. Whether you're a novice or spend hours in the saddle, FRC's ranch skills course is an excellent learning experience. Successful achievement of course objectives will lead to a Certificate of Specialization in Fundamentals of Ranch Skills.

#### Tuition and Fees

Please contact Admissions and Records for current tuition information.  
(530) 283-0202 ext. 600

#### **Bring your own horse or work with a college horse**

In addition to the Ranch Skills Short Course, the following classes will be offered:

AGEQ 299 Special Projects in Equine Studies  
Instructor permission only. Please contact Equine Studies for more information on these classes at 530-283-0202 ext. 272.



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570 Golden Eagle Avenue • Quincy, CA 95971  
[www.frc.edu/agriculture/home.htm](http://www.frc.edu/agriculture/home.htm)

# EQUINE & RANCH MANAGEMENT BACHELOR OF SCIENCE

The Bachelor of Science: Equine and Ranch Management combines scientific agricultural management courses with a hands-on livestock experience. It incorporates both traditional and progressive ranch management, and performance horse methods. The degree provides a hands-on learning environment with a comprehensive curriculum, outstanding instructional facilities, exceptional full-time faculty and staff, and extensive agriculture industry connections, all to ensure students will acquire the practical, intellectual and communication skills necessary to meet the needs of the agriculture industry.

Students pursuing the Bachelor of Science Degree can choose to take extra courses throughout their time at Feather River College and graduate with both an associates degree and a bachelor's degree. They can choose to receive an Associate of Science

STUDENTS INTERESTED IN THE  
EQUINE AND RANCH MANAGEMENT  
BACHELOR DEGREE PROGRAM  
MUST COMPLETE AN ADDITION APPLICATION.

THE BACHELORS APPLICATION IS  
AVAILABLE ON OUR WEBSITE AT WWW.FRC.EDU/  
AGRICULTURE/APPLY-FOR-BACHELOR-PROGRAM.CFM

| Lower Division Requirements        |                    |
|------------------------------------|--------------------|
| General Education                  | 40-43 units        |
|                                    | -AND-              |
| Lower Division Major Courses       | 22 units           |
| <b>Total Lower Division Units:</b> | <b>62-65 units</b> |

| Bachelor of Science Upper Division Requirements |                  |
|---|------------------|
| Upper Division Core Requirements                | 24 units         |
| Upper Division General Education                | 9 units          |
| Upper Division Career Options/Electives         | min. of 9 units  |
|   | -AND-            |
| Bachelor's Degree General Electives             | max. of 16 units |
| <b>Total Units for Degree:</b>                  | <b>58 units</b>  |

|  |                      |
|--|----------------------|
| Lower Division Units:                    | 62-65 units          |
| Upper Division Units:                    | 42 units             |
| Bachelor's Degree General Electives:     | 13-16 units          |
| <b>Total Completed Units for Degree:</b> | <b>min 120 units</b> |



## GENERAL EDUCATION REQUIREMENTS

The following lower division courses are REQUIRED for the Bachelor's Degree students and will fulfill CSU breadth requirements. Areas with no degree requirements are indicated by the STUDENT CHOICE label. Student can choose any course in that area as long as it fulfills the CSU breadth requirements. Other universities may require specific General Education courses for their degrees. Please contact the Agriculture Academic Advisor for assistance in developing your own individual Student Education Plan.

### Area A: Communication in the English Language and Critical Thinking **9 units**

|                        |         |
|------------------------|---------|
| <b>A1 fulfillment:</b> |         |
| STUDENT CHOICE         | 3 units |
| <b>A2 fulfillment:</b> |         |
| STUDENT CHOICE         | 3 units |
| <b>A3 fulfillment:</b> |         |
| STUDENT CHOICE         | 3 units |

### Area B: The Physical Universe and Its Life Forms **10-13 units**

|   |         |
|---|---------|
| <b>B1 fulfillment (choose one):</b>             |         |
| AGPS 210/ ENVR 210 Introduction to Soil Science | 3 unit  |
| CHEM 100 Chemistry and Society                  |         |
| CHEM 102 General Chemistry                      | 5 units |
| <b>B2 and B3 fulfillment (choose one):</b>      |         |
| AGAS 120 Introduction to Animal Science         | 3 units |
| AGPS 104 Introduction to Plant Science          | 3 units |
| BIOL 100 Concepts in Biology                    | 4 units |
| BIOL 102 Cellular and Molecular Biology         | 4 units |
| BIOL 104 Animal Biology, Evolution and Ecology  | 4 units |
| BIOL 106 Plant Biology, Evolution and Ecology   | 4 units |

|                                |         |
|--------------------------------|---------|
| <b>B4 fulfillment:</b>         |         |
| MATH 202 Elementary Statistics | 4 units |

### Area C: Arts, Literature, Philosophy, Foreign Languages **9 units**

|                        |                                |
|------------------------|--------------------------------|
| <b>C1 fulfillment:</b> |                                |
| STUDENT CHOICE         | 3-6 units                      |
| <b>C2 fulfillment:</b> |                                |
| STUDENT CHOICE         | 3-6 units                      |
|                        | (see US-1 for recommendations) |

#### **C1 or C2 fulfillment:**

Choose one additional course from either C1 or C2

### Area D: Social, Political Institutions and Behavior, Historical Background **9 units**

|   |         |
|---|---------|
| STUDENT CHOICE (see US-2 for recommendations) | 6 units |
| <b>(Choose one):</b>                          |         |
| BUS 106 Macroeconomics                        | 3 units |
| ENVR 180 Environmental Policy                 | 3 units |

### Area E: Lifelong Understanding and Self Development **3 units**

|  |         |
|--|---------|
| STUDENT CHOICE   | 3 units |
| <b>American Institutions Requirement US-1 fulfillment (counts for Area C2 or D; choose one):</b> |         |
| HIST 108 The United States to 1877   | 3 units |
| HIST 110 The United States since 1877  | 3 units |
| <b>US-2 fulfillment (also counts for Area D):</b>  |         |
| POL 101 American Government and Politics   | 3 units |

# EQUINE & RANCH MANAGEMENT BACHELOR OF SCIENCE

## EQUINE AND RANCH MANAGEMENT BACHELOR OF SCIENCE STUDENT LEARNING OUTCOMES:

Upon degree completion, graduates of the Equine and Ranch Management Bachelor of Science Program will acquire the following:

- Theoretical knowledge, practical experience, and skills that reflect the impact of technology and science on agriculture, natural resource conservation and stewardship, equine and bovine production, and facility management.
- Knowledge of ethical concepts and practices for a balance between production and protection of resources (soil, plant, water) and animal welfare.
- A proficiency in critical thinking, reading, writing, and oral language skills and an ability to analyze data and solve problems related to equine and ranch management.
- A proficiency in equine, bovine, and ranch management, business and personnel management.
- Develop and demonstrate business and ethical leadership skills that enhance professional success in the agriculture and equine industry.

### LOWER DIVISION MAJOR PREREQUISITES 22 UNITS

|          |   |   |
|----------|---|---|
| BUS 102  | Financial Accounting.....                   | 4 |
| AGAS 125 | Animal Feeds and Nutrition.....             | 3 |
| AGEQ 102 | Elements of Equine Science .....            | 3 |
| AGAB 110 | Introduction to Agriculture Business.....   | 3 |
| AGAB 150 | Agriculture Computer Applications.....      | 3 |
| AGMA 160 | Introduction to Mechanized Agriculture..... | 3 |
| AGAS 170 | Elements of Beef Cattle Science.....        | 3 |

### UPPER DIVISION GENERAL EDUCATION 9 UNITS

#### WRITING & COMMUNICATION REQUIREMENT

#### **ENGL 310 Applied Professional and Technical Communication and Composition 3 units**

Provides experience and feedback on writing effective and concise professional and technical communications such as memos, emails, letters, reports, technical papers, proposals, reports, social media, pamphlets, and other communications medias such as working in teams, preparing and giving presentations essential in the professional field.. The purpose of this course is to improve the writing and presentation ability of students in their professional communication with others.

#### **ENGL 416 Research Methods in Equine and Ranch Management Current Topics and Issues 3 units**

Research in current equine and ranch management topics through critical exploration of research language, ethics, and approaches. The course introduces the elements of the research process within quantitative, qualitative, and mixed methods approaches, and emphasizes industry related topics including animal welfare and ethical training methods.

SOCIAL AND BEHAVIOR SCIENCE REQUIREMENT (A minimum of 3 units should be chosen from the list below.)

#### **ENVR 480 Human Dimensions of Natural Resources 3 units**

The values, attitudes, and behaviors of humans related to natural resources. Students will explore their own beliefs, biases, and prejudices through the use of case studies in controversial topics such as grazing on public lands, the expansion of wolves into new habitat, listing of endangered species such as sage grouse, and recreation conflicts.

#### **HIST 400 The American West 3 units**

Study of the history of the American West from European contact to the present. Topics will include the role of the US government and the effects of American expansionism with particular focus on the environment, economic development, and conflicts over resources and land as well as the historiography of the West.

# EQUINE & RANCH MANAGEMENT BACHELOR OF SCIENCE

## UPPER DIVISION CORE REQUIREMENTS

24 UNITS

### **AGPS 300 Rangeland, Pasture and Forage Management**

3 units

Characteristics, history and multiple uses of pasture and rangeland. Principles of plant physiology and ecology in relation to forage conditions, trends, utilization and improvement practices. Principles of proper grazing practices and nutrition of livestock.

### **AGAS 313 Equine and Bovine Health and the Prevention and Control of Disease**

3 units

Important diseases of livestock. Immunity, disease mechanisms, infectious agents, diagnostic procedures, and post-mortem techniques as well as a survey of selected but generally well-recognized diseases of livestock.

### **AGAB 335 Equine and Ranch Management Entrepreneurship**

3 units

Tools to be a successful agricultural entrepreneur. Equips students with foundational knowledge and explore the strengths and weaknesses entrepreneurial plans. Topics include defining and refining the idea, developing the opportunity, and planning and delivering the business venture. The importance of the business plan as preparation for launching a business venture, managing the business and obtaining investor dollars.

### **AGMA 404 Livestock Facilities Maintenance and Management**

3 units

The interaction between the physical design and business management of equine and cattle enterprises. Principles of equine and cattle facility design and maintenance with particular emphasis on the application of skills related to managing an equine and/or cattle facility.

### **AGAB 418 Equine and Ranch Management Internship**

6 units

Student will spend time with an approved agricultural firm engaged in production or related business. Time will be spent applying and developing production and managerial skills and abilities.

### **AGAB 465 Equine and Ranch Enterprises**

3 units

A capstone course evaluating agribusiness organization and management. A variety of Equine, Agriculture, and Ranch management businesses will be evaluated and examined either through case studies and/or facility tours. Discussion topics will include evaluation of business plans, location, costs, natural resource management, environmental regulations, and human resource management. Budgeting, out-put relationships, and enterprise analysis in decision making.

### **Choose from one of the following Production and Management Courses:**

#### **AGAS 421 Equine Production and Management**

3 units

Knowledge and skills for the application of current management practices in the area of horse production and management. Emphasis on nutrition, disease, preventative health care, reproductive management, anatomy and physiology and facility development and maintenance. (Also counts as a Career Elective)

**OR**

#### **AGAS 423 Beef Cattle Production and Management**

3 units

Knowledge and skills for the application of current management practices in the area of beef cattle production and management. Emphasis on reproduction, breeding, nutrition, health care and facility development and maintenance. (Also counts as a Career Elective)

### **CAREER ELECTIVES (MINIMUM OF 9 UNITS MUST BE UPPER DIVISION FROM LIST BELOW)**

#### **AGAS 302 Advanced Techniques in Equine Training Fall**

2 units

Mastering advanced principles and applications of training young horses under saddle. Course includes groundwork, philosophy of colt starting, problem solving, equine behavior modification. Training young horses in beginning maneuvers under saddle with special emphasis on continuing the fall training of two year olds started in the spring.

#### **AGAS 303 Advanced Techniques in Equine Training Spring**

2 units

Mastering advanced principles and applications of training young horses under saddle. Course includes groundwork, philosophy of colt starting, problem solving, equine behavior modification. Training young horses in beginning maneuvers under saddle with special emphasis on starting the two-year old horse in the spring.

#### **AGAS 307 Advanced Techniques in Equine Sale Preparation I**

2 units

Fitting and showing horses. Students gain experience training, conditioning, grooming, showing and /or selling horses. Training young horses in advanced maneuvers under saddle including cow work, rope work, trail, versatility, and reining patterns. Techniques and applications of fitting a horse in preparation for horse sale or show.

# **EQUINE & RANCH MANAGEMENT BACHELOR OF SCIENCE**

- AGAS 308 Advanced Techniques in Equine Sale Preparation II** **2 units**  
Culminating further experience in training, conditioning, grooming, showing and/or selling horses. Training young horses in advanced maneuvers under saddle including cow work, rope work, trail, versatility, and reining patterns. Techniques and applications of fitting a horse in preparation for horse sale or show.
- AGAS 350 Reproduction, Breeding Systems, and Genetics of Livestock** **3 units**  
A study of the mechanisms of livestock reproduction, genetics, and animal breeding systems with an emphasis on beef cattle and horses. Physiological mechanisms of livestock reproduction including gonad function, endocrine relationships, fertility, and factors affecting reproduction efficiency; genetics including study of the genetic basis of selection, kinds of gene action, principles of physical and chemical basis of heredity, mutations, sex-linkage, chromosome mapping, multiple alleles and chromosomal abnormalities. Breeding systems including the application of genetic principles to livestock improvement and development of breeding programs based on principles of population genetics.
- AGAS 360 Technical Veterinary Skills** **3 units**  
Restraint and handling of animals, physical examination, necropsy procedure, basic wound management, applied pharmacology. Reproduction and herd health programs.
- AGAB 364 Promotion and Marketing in the Equine and Beef Cattle Industry** **3 units**  
Marketing strategies, planning, budgeting, research, product development, pricing, branding, communications and promotions, with applications specific to the equine and beef cattle industry. Students will become acquainted with multimedia marketing techniques and event planning in the agriculture industry.
- AGPS 370 Soil Fertility and Plant Nutrition** **4 units**  
A fundamental understanding of plant nutrition, soil fertility, and nutrient management. An emphasis on quantitative and chemical factors that control and measure soil and plant nutrient content, as well as background on the essential plant nutrients. Provides an understanding of the environmental implications of fertility management and operations.
- AGAS 402 Training of the Hackamore Horse** **2 units**  
Techniques and applications involved in the training of the hackamore horse. This course will continue the advancement of the training of the young horse in the hackamore. Course includes advanced riding techniques, philosophy of equine behavior modification, and the function of the hackamore. Training young horses in advanced maneuvers under saddle with special emphasis on continuing the fall training of three year olds and progressing to a hackamore.
- AGAS 403 Training of the Bridle Horse** **2 units**  
Techniques and applications involved in the training of the bridle horse. This course will continue the advancement of the training of the young horse in the bridle. Course includes advanced riding techniques, philosophy of equine behavior modification, and the function of the bridle. Training young horses in advanced maneuvers under saddle with special emphasis on continuing the spring training of the four year old horse and progressing to a bridle.
- AGAB 410 Equine and Ranch Management Leadership Seminar** **3 units**  
The study of leadership traits. Knowledge, skills and attitudes that enhance personal effectiveness and professional success. Goal attainment, personal organization and critical thinking strategies are emphasized. Principles and practices in planning, developing, conducting, and evaluating leadership programs for agricultural groups. Improving group communication; becoming effective leaders and members of groups; improving leadership and personal development skills; assessing leadership situations, determining and administering appropriate leadership strategies, and evaluating results.
- AGAS 450 Applied Beef Cattle Reproductive Management** **1-3 units**  
Further explores principles of inheritance and the genetic improvement of beef cattle through cellular, qualitative, and population genetics; emphasizing breeding values, selection, and mating systems. An advanced course in bovine reproductive management with emphasis on understanding and improving bovine genetics and infertility; applications of current research; and development of technical skills.
- AGAS 455 Applied Equine Reproductive Management** **1-3 units**  
Further explores principles of inheritance and the genetic improvement of horses through cellular, qualitative, and population genetics; emphasizing breeding values, selection, and mating systems. An advanced course in equine reproductive management with emphasis on understanding and improving equine genetics and infertility; applications of current research; and development of technical skills.

## **BACHELOR DEGREE GENERAL ELECTIVES**

**(MAY CONSIST OF LOWER OR UPPER DIVISION COURSES TO COMPLETE A MIN. OF 120 UNITS)**



# DESCRIPTION OF AGRICULTURE COURSES



## General Agriculture

### AG 270 - Fund. of Agriculture Education & Employment - 0.5 units

Articulate knowledge in education and employment opportunities in Agriculture. Includes Feather River College educational plan development and curriculum requirements toward educational goals for Agriculture majors. Addresses job seeking skills, presentation, interviewing, resume development, and transfer procedures to other educational programs. Current events that impact Agriculture and society will be discussed.

### AG 271 - Fund. of Agriculture Education & Employment - 0.5 units

Articulate knowledge in education and employment opportunities in Agriculture. Includes Feather River College educational plan development and curriculum requirements toward educational goals for Agriculture majors. Addresses job seeking skills, presentation, interviewing, resume development, and transfer procedures to other educational programs. Current events that impact Agriculture and society will be discussed.

### AG 291 - Directed Study - Varies

A student may take advanced course work or complete a student designed project in Agriculture after having completed introductory courses. The topics, learning objectives, educational material(s), number of units to be awarded, and method of evaluation are determined in a written agreement between the instructor and the student before the student engages in the learning experience. A "Learning Contract for Directed Studies" must be completed by the student, approved by the instructor and Chief Instructional Officer, and placed on file with the Office of Instruction.

### AG 295 - Community Service Learning in Agriculture - 1-4 units

Individual opportunities to complete a community service-learning project that provides service that will be of benefit to the community, including internship, apprenticeship, or other volunteer opportunities. The service is associated with knowledge and skills developed within their Agriculture studies. Students identify and complete different objectives for each unit of credit.

### AG 296 - Special Projects in Agriculture - 1-4 units

Individual opportunities to study investigate research and participate in special topics in Agriculture. Student completes different performance objectives for each unit of credit.

### AG 299 - Special Topics in Agriculture - 0.5-3 units

Course covers selected topics in evolving issues or research in the area of Agriculture or special field topics not covered by regular course offerings. Independent student research and presentation are emphasized.

## Agriculture Business

### AGAB 110 – Introduction to Agriculture Business – 3 units

This class is a survey and basic understanding of the business and economics of the agriculture industry. It is an introduction to the economic aspects of agriculture and their implications to the agricultural producer, consumer and the food system. The management principles encountered in the day to day operation of an agricultural enterprise are stressed as they relate to the decision making process.

### AGAB 112 – Agricultural Sales and Communication – 3 units

This course involves the study of principles of the selling process:

selling strategies and approaches, why and how people buy, prospecting, and customer service. Self-management, communication, and interpersonal skills necessary in developing leadership qualities, and facilitating teamwork within the agribusiness sector will be explored. Students will gain experience through role-play and formal sales presentations.

### AGAB 124 - Agriculture Economics - 3 units

The place of agriculture and farming in the economic system; basic economic concepts, and problems of agriculture; pricing and marketing problems, factors of production; and state and federal farm programs affecting the farmer's economic position.

### AGAB 150 - Agriculture Computer Applications – 3 units

Computer use in the workplace with emphasis on agribusiness situations. Computer applications including word-processing, spreadsheets, databases, and presentation managers will be covered. Also included will be instruction on accessing information through the Internet and World Wide Web, telecommunications, an introduction to web page design and other software applications appropriate to agribusiness.

### AGAB 188 – Farm Management – 3 units

Organization and operation of farm and ranch businesses. Identification of factors affecting profitability. Evaluation of the business for increased efficiency and profit. Application of budgeting to laboratory farm and independent analysis of a farm.

## Animal Science

### AGAS 120 – Introduction to Animal Science – 3 units

This course is a survey of the livestock industry, supply of animal products, and their uses in animal production. There is a special emphasis on the origin, characteristics, adaptation, and contributions of farm animals to the agriculture industry. The student will analyze the economic and environmental roles of animal production and companionship to society. A survey of nutrition, genetics, reproduction, behavior, growth and development of animals is included. Animal products, biosecurity, and food processing will also be addressed.

### AGAS 125 – Animal Feeds and Nutrition – 3 units

The science of animal nutrition; the fundamentals of digestion and absorption in both ruminants and non-ruminants are discussed. The nutritive value of feeds as they relate to the formulation of livestock rations will be emphasized including by-product feeding.

### AGAS 164 - Animal Behavior - 3 units

General introduction to animal behavior. Behavior of individual animals, animal relationships, origins of behavior, and social organizations are discussed.



# DESCRIPTION OF AGRICULTURE COURSES



## **AGAS 170 - Elements of Beef Cattle Science - 3 units**

Study of the principles and practices of purebred and commercial beef cattle production throughout the World, United States and California; emphasis on the importance of breeds, breeding principles, selection, nutrition, environmental management, health, marketing and record-keeping to ensure scientifically based management decisions and consumer product acceptance as applied to beef cattle.

## **Equine Studies**

### **AGEQ 015 – Western Horseback Riding for Beginning Riders - 5-2 units**

Designed to teach horseback riding to beginning riders with little or no previous experience, and those who have experience riding, but have not had the opportunity to “take lessons.” Students will develop their skills through practical experience, and will have “individualized” equitation lessons in a group setting.

### **AGEQ 009 - Draft Horse Driving I - 0.5 unit**

Work horse history, attitude, approach, dynamics of draft, anatomy, health care, harness and harnessing, and principles of driving.

### **AGEQ 010- Draft Horse Driving II - 0.5 unit**

Work horse history, attitude, approach, dynamics of draft, anatomy, health care, harness and harnessing, and principles of driving. Progressive skill development from course prerequisite AGEQ009 to gain proficiency to harness and drive a single or double draft team with assistance.

### **AGEQ 011- Draft Horse Driving III - 0.5 unit**

Work horse history, attitude, approach, dynamics of draft, anatomy, health care, harness and harnessing, and principles of driving. Progressive skill development from course prerequisite AGEQ010 to gain proficiency to harness and drive a single or double draft team unassisted.

### **AGEQ 102 - Elements of Equine Science - 3 units**

This course is a survey of the equine industry, encompassing the evolution and role of the equine species throughout history, breed selection and development, nutrition, disease, preventative health care, reproductive management, basic anatomy and physiology, and equine career options.

### **AGEQ 103 – Western Equitation I – 2 units**

Designed to teach horseback riding to students with little or no previous experience, and those who have experience riding, but have not had the opportunity to “take lessons.” Students will develop their skills through practical experience, and will have “individualized” equitation lessons in a group setting. Topics: basic horse care, types of gear and equipment, handling, grooming, saddling, bridling, mounting, seat, hands, and horsemanship under saddle.

### **AGEQ 104 - Horse Conformation and Judging - 1 unit**

Horse Conformation is a survey course that covers the varied elements of horse conformation as it relates to the horse in action. The participant will be able to identify and recognize desired horse conformation for the various types of equitation and demonstrate an overall knowledge of how the horse moves.

### **AGEQ 106 – Western Equitation II – 2 units**

Designed to teach intermediate and advanced western equitation skills to students with previous western riding experience. Students will de-

velop their skills through practical experience, and will have “individualized” equitation lessons in a group setting. Topics: grooming and fitting, use of equipment, groundwork as it relates to riding, use of natural riding aids (hands, legs, seat), advanced horsemanship under saddle.

### **AGEQ 107 - Elements of Pack Station & Stable Operations- 3 units**

This course will discuss the major business aspects and skills of a horse pack station and stable management. The program is designed to expose students to current Equine Studies theories, their practical application, and provide the student with specific skills in the Equine Studies field. Students should be concurrently enrolled in AGEQ 108 Field Experience.

### **AGEQ 108 - Fund. of Pack Station & Stable Operations Field Experience- 2 units**

Course demonstrates practical skills necessary in organizing and implementing an actual pack trip. Practical applications of skills such as how to plan, organize and implement a three-day pack trip. The application of skills learned in course co-requisite AGEQ 107.

### **AGEQ 109 - Pack Station & Stable Operations Field Experience - 2 units**

Course demonstrates practical skills necessary in organizing and implementing a pack trip. Practical applications of skills such as the planning, organization and implementing of a three-day pack trip. The progressive application of skills learned in prerequisite AGEQ 108.

### **AGEQ 115 - Elements of Horse Training I -0.5-3 unit**

Elements of Horse Training I covers various elements of horse behavior modification. Participants will be able to understand a variety of techniques to teach the horse to respond and advance in progressive levels from Level I thru Level IV, the course levels provides the skills to explain, demonstrate, compare, contrast, differentiate, create and evaluate horse training philosophies, techniques and specific skills.

### **AGEQ 116 - Elements of Horse Training II -0.5-3 unit**

Elements of Horse Training II covers various elements of horse training techniques and concepts. Participants will be able to progress in level II enhanced understanding and skill development from level I. The ability to compare and contrast horse training philosophies, techniques, and specific skills. Prerequisite: AGEQ 115.

### **AGEQ 117 - Elements of Horse Training III -0.5-3 unit**

Elements of Horse Training III covers various elements of horse training techniques and concepts. Participants will be able to progress in level III enhanced understanding and skill development from level II, the ability to differentiate and demonstrate horse training philosophies, techniques and specific skills. Prerequisite AGEQ 116

### **AGEQ 118 - Elements of Horse Training IV -0.5-3 unit**

Elements of Horse Training IV covers various elements of horse training techniques and concepts. Participants will be able to progress in level IV enhanced understanding and skill development from level III, the ability to create and evaluate horse training philosophies, techniques and training skills. Prerequisite AGEQ 117.

### **AGEQ 123 - Introduction to Farrier Science – 1 unit**

Introductory horseshoeing principles and practices, including basic anatomy and physiology of the horse’s limbs and feet, horseshoeing terminology, and guidelines for assessing a proper horseshoeing job.

### **AGEQ 124 - Elements of Farrier Science – 1 unit**

# DESCRIPTION OF AGRICULTURE COURSES



Horseshoeing principles and practices, including anatomy and physiology of the horse's limbs and feet, horseshoeing terminology, and guidelines for assessing a proper horseshoeing job. Causes, treatment and prevention of common lameness problems. Progression of student learning outcomes from course prerequisite AGEQ 123.

### **AGEQ 135 - Conditioning The Horse and Rider I - 0.5-1 unit**

Development of sport specific strength, neuromuscular strength, power and speed for both horse and rider. A progression of exercises and techniques to maximize individual performance, minimize injury, develop and maintain a safe and healthy horse and rider conditioning program.

### **AGEQ 136 - Conditioning The Horse and Rider II - 0.5-1 unit**

Development of sport specific strength, neuromuscular strength, power and speed for both horse and rider. A progression of exercises and techniques to maximize individual performance, minimize injury, develop and maintain a safe and healthy horse and rider conditioning program. Demonstrate exercises for both horse and rider. Progression of skills from prerequisite course AGEQ 135.

### **AGEQ 137 - Conditioning The Horse and Rider III - 0.5-1 unit**

Development of sport specific strength, neuromuscular strength, power and speed for both horse and rider. A progression of exercises and techniques to maximize individual performance, minimize injury, develop and maintain a safe and healthy horse and rider conditioning program. Evaluate exercises for both horse and rider. Progression of skills from prerequisite course AGEQ 136.

### **AGEQ 138 - Conditioning The Horse and Rider IV - 0.5-1 unit**

Development of sport specific strength, neuromuscular strength, power and speed for both horse and rider. A progression of exercises and techniques to maximize individual performance, minimize injury, develop and maintain a safe and healthy horse and rider conditioning program. Develop exercises for both horse and rider. Progression of skills from prerequisite course AGEQ 137.

### **AGEQ 140 – Introduction to Equine Behavior & Training – 2 units**

Introduction to the principles involved in handling and training horses with an emphasis on the historical perspectives and technical development of the unique cooperation between horses and humans. Course covers equine behavior patterns and training philosophy, evolution of horsemanship, development of training equipment, alternative equine health care and therapies.

### **AGEQ 141 – Equine Behavior & Training – 2 units**

Principles involved in handling and training horses utilizing behavior modification procedures that emphasize communication thru knowledge, skills, and respect for the horse. Course includes equine training behavior patterns on the ground and in the saddle. Innovative horse training techniques, equine training problems and general solutions.

### **AGEQ 151 - Intro to Horse Event Competition & Showing - 1-2 units**

Introduction to Horse Event Competition & Showing provides an introduction to theories and practices of horse competition and show events such as; reining, versatility, horsemanship, showmanship, cow work, equitation, trail, pleasure and halter. Emphasis will be placed on the introduction to the discipline fundamentals, history of the sport, scoring, rule interpretation, and judging. The course will also provide the student the opportunity to study, learn, and practice the basic skills and

beginning techniques necessary to participate in horse competition and show.

### **AGEQ 152 Fund. of Horse Event Competition & Showing - 1-2 units**

Fundamentals of Horse Event Competition & Showing develops the fundamentals of theories, skills, and practices of horse competition and show events such as; reining, versatility, horsemanship, showmanship, cow work, equitation, trail, pleasure and halter. Emphasis will be placed on horse competition and show discipline fundamentals, history of the sport, scoring, rule interpretation, and judging. Students will be provided the opportunity to study, learn, and practice the skills and techniques necessary to participate in horse competition and show. Participants will develop an enhanced understanding and skill development while progressing skills and techniques learned in AGEQ151.

### **AGEQ 175- Ranch Skills Short Course - 10 units**

Techniques and skills necessary for ranch work using horses. Designed to teach horseback riding to students with little or no previous experience, and those who have experience riding, but have not had the opportunity to "take lessons." Students will develop their skills through practical experience, and will have "individualized" equitation lessons in a group setting. Application of introductory, intermediate and advanced roping and cattle working techniques. Allows student to participate in working cows, roping, sorting and other ranch related activities. Successful achievement of student learning outcomes will lead to a Certificate of Specialization in Fundamentals of Ranch Skills. Along with the Certificate of Specialization, students can apply the AGEQ 175 Ranch Skills Short Course as a substitute for the following courses when utilized towards the Equine Studies Associate Degree or Equine Studies Certificate of Achievement: AGEQ 001 (2 units), AGEQ 103 (2 units), AGEQ 210 (2 units), AGEQ 211 (2 units), and AGEQ 212 (2 units).

### **AGEQ 180 – Rodeo Skills & Techniques Men's Events – 1-4 units**

This course focuses on the fundamental, theory, and practice of intercollegiate men's rodeo events; bareback riding, saddle bronc riding, bull riding, tie down roping, steer wrestling, team roping emphasizing the physiological fundamentals, history of the sport, scoring, rule interpretation, and judging. The course will also provide the student the opportunity to study, learn and practice the skills and techniques necessary to participate in intercollegiate men's rodeo events. PREQ: Approval of instructor in regards to student's minimum physical and mental abilities necessary to participate in rodeo events.

### **AGEQ 181 – Rodeo Skills & Techniques Women's Events – 1-4 units**

This course focuses on the fundamental, theory, and practice of intercollegiate women's rodeo events; barrel racing, goat tying, break away roping, team roping emphasizing the physiological fundamentals, history of the sport, scoring, rule interpretation, and judging. The course will also provide the student the opportunity to study, learn and practice the skills and techniques necessary to participate in intercollegiate women's rodeo events. PREQ: Approval of instructor in regards to student's minimum physical and mental abilities necessary to participate in rodeo events.

### **AGEQ 182 – Intercollegiate Rodeo – 2 units**

Designed to provide students the opportunity to further develop their proficiency in men & women's intercollegiate rodeo events. Methods in competitive performance, individual and team strategy, in a National Intercollegiate Rodeo Association (NIRA) sanctioned competition event. Students will travel to various college rodeos and practices. Classes will be held at the Rodeo facility. Includes practice field trips. PREQ: Recommended or concurrent enrollment in AGEQ 180 or 181. Limited to students who qualify to compete in NIRA events.



# DESCRIPTION OF AGRICULTURE COURSES



## Equine Studies

### AGEQ 184 – Advanced Intercollegiate Rodeo – 2 units

Designed to provide students with additional opportunities to further develop their proficiency in man & women's intercollegiate rodeo events. In depth advanced techniques of competitive performances, individual and team strategy in National Intercollegiate Rodeo Association (NIRA) sanctioned competitions. Students will travel to various college rodeos and practices. Classes will be held at the Rodeo facility. Includes practice field trips. PREQ: Recommended or concurrent enrollment in AGEQ 182. Limited to students who qualify to compete in NIRA events.

### AGEQ 186 – Rodeo Production – 1 unit

Practical application of the planning, organizing, and staging of an intercollegiate rodeo. Students participate in all aspects of rodeo production, procedures, promotion, finance, rodeo contractors, and sponsorship. Students will be required to serve on a rodeo committee and work outside of class and on the weekends of the rodeo.

### AGEQ 204 - Training Horses Under Saddle Fall- 2 Units

Basic principles involved in handling and training the young horse. Course includes groundwork, philosophy of colt starting, advancing the green horse, and problem solving. Special emphasis on continuing the Fall training of two-year olds started in the Spring.

### AGEQ 205 - Training Horses Under Saddle Spring- 2 Units

Basic principles involved in handling and training the young horse. Course includes groundwork, philosophy of colt starting, advancing the green horse, and problem solving. Special emphasis on starting the two-year old horse in the Spring.

### AGEQ 206 - Advanced Training Of Young Horses - 2 Units

Advanced principles and applications of equine behavior modification for training young horses in advanced maneuvers under saddle: Lead departures, lead changes, spinning, collection, stopping and working cattle. It is recommended for student success that AGEQ 205 and AGEQ 103 be completed prior to enrolling in AGEQ 206.

### AGEQ 207 - Preparing the Horse for Sale and Show - 2 Units

Instruction in fitting and showing horses. Students gain experience training, conditioning, grooming, showing and /or selling horses. Training young horses in advanced maneuvers under saddle including cow work, rope work, trail, versatility, and reining patterns. Techniques and applications of fitting a horse in preparation for horse sale or show. It is recommended for student success that AGEQ 205 and AGEQ 103 be completed prior to or concurrent to enrolling in AGEQ 207.

### AGEQ 208 - Advanced Pack Station & Stable Operations Field Experience- 2 units

The course demonstrates the practical skills necessary in the organization and implementation of a pack trip. The class will conclude with a three-day pack trip that is planned and organized by the students. Prerequisite AGEQ 107 and AGEQ 108.

### AGEQ 210 - Intro To Ranch Work with Horses - 1-4 units

Students learn the techniques and skills necessary for Cattle/Guest Ranch operation, and selection of equipment and horses. This course also covers the principles of working cattle and ranch roping, specializing in the training of horses for ranch work.

### AGEQ 211 - Applied Ranch Skills with Horses I – 2 units

Application of intermediate roping and cattle working techniques with horses. Allows student to participate horseback working cows, roping, sorting and other ranch related activities.

### AGEQ 212 - Applied Ranch Skills with Horses II – 2 units

Application of advanced roping and cattle working techniques with horses. Allows students to participate horseback working cows, roping, sorting and other ranch related activities. The ability to demonstrate advanced ranch techniques and skills. Course prerequisite AGEQ 211.

### AGEQ 214 - Handling and Care of the Foal, Weanling, and Yearling Horse- Fall-- 1 unit

Course will focus on the management and handling of foals, weanlings, and yearling horses. Emphasizing safe and practical behavior handling techniques as well as current management practices utilized in health and farrier care. Special emphasis on care and candling of weanlings in the Fall.

### AGEQ 215 - Handling and Care of the Foal, Weanling, and Yearling Horse- Spring-- 1 unit

Course will focus on the management and handling of foals, weanlings, and yearling horses. Emphasizing safe and practical behavior handling techniques as well as current management practices utilized in health and farrier care. Special emphasis placed on care and handling of newborn foals in the Spring.

### AGEQ 216 - Adv. Handling and Care of the Foal, Weanling, and Yearling Horse- Fall-- 1 unit

Course will focus on the management and handling of foals, weanlings, and yearling horses. Emphasizing safe and practical behavior handling techniques as well as current management practices utilized in health and farrier care. Special emphasis on care and candling of weanlings in the Fall.

### AGEQ 217 - Adv. Handling and Care of the Foal, Weanling, and Yearling Horse- Spring-- 1 unit

Course will focus on the management and handling of foals, weanlings, and yearling horses. Emphasizing safe and practical behavior handling techniques as well as current management practices utilized in health and farrier care. Special emphasis placed on care and handling of newborn foals in the Spring.

### AGEQ 225 – Ranch Horsemanship - .5-3 units

Ranch Horsemanship is a survey course that covers the techniques and philosophies of training horses for ranch purposes. Participants will be able to identify and recognize training philosophies and various techniques of horse training, and advance from intermediate to advanced stages of horse training and in ranch horsemanship. Prerequisite AGEQ 103 and 115.

### AGEQ 226 – Advanced Horsemanship - .5-3 unit

Advanced Horsemanship is a survey course that covers the techniques and philosophies of advanced horse training. Participants will be able to identify and recognize training philosophies and various techniques of horse training, and advance from intermediate to advanced stages of horse training and horsemanship. Prerequisite AGEQ 103 and 115.

### AGEQ 227 - Advanced Ranch Horsemanship - 0.5-3 units

Advanced Ranch Horsemanship covers the techniques and philosophies of training horses for ranch purposes. Participants will learn horse training philosophies and techniques related to work with cattle. For advanced

# DESCRIPTION OF AGRICULTURE COURSES



levels of horse training and in ranch horsemanship. Prerequisite AGEQ 225.

### **AGEQ 251 - Advanced Horse Competition and Show Level I - 1-2 units**

Advanced Horse Competition and Show Level I develops the skills, theories, and practices of horse competition and show events such as; reining, versatility, horsemanship, showmanship, cow work, equitation, trail, pleasure and halter. Emphasis will be placed on horse competition and show techniques, scoring, rule interpretation, judging, and assisting the course instructor in developing the horse and rider in AGEQ151 and AGEQ152. Students will be provided the opportunity to study, learn, and practice the skills and techniques necessary to participate in horse competition and show. Participants will develop an enhanced understanding and skill development while progressing skills and techniques learned in AGEQ152.

### **AGEQ252 - Advanced Horse Competition and Show Level II - 1-2 units**

Advanced Horse Competition and Show Level II advances the theories, and practices of horse competition and show events such as; reining, versatility, horsemanship, showmanship, cow work, equitation, trail, pleasure and halter. Emphasis will be placed on management of horse competition and participation in horse show events. Students will be provided the opportunity to study, learn, and practice the skills and techniques necessary to participate in horse competition and show while assisting the course instructor in developing the horse and rider in AGEQ151 and AGEQ152. Participants will develop an enhanced understanding and skill development while progressing skills and techniques learned in AGEQ251.

### **AGEQ 280 – Advanced Rodeo Techniques – Men’s Events – 1-4**

This course focuses on the advanced theory, and practice of intercollegiate men’s rodeo events; bareback riding, saddle bronc riding, bull riding, tie down roping, steer wrestling, team roping emphasizing the physiology and physical foundations, history of the sport, scoring, rule interpretation, and judging. The course will also provide the student the opportunity to study, learn, and practice the skills and techniques necessary to participate in intercollegiate men’s rodeo events.

### **AGEQ 281 – Advanced Rodeo Techniques – Women’s Events – 1-4**

This course focuses on the advanced theory, and practice of intercollegiate women’s rodeo events; barrel racing, goat tying, break away roping, team roping emphasizing the physiological fundamentals, history of the sport, scoring, rule interpretation, and judging. The course will also provide the student the opportunity to study, learn, and practice the skills and techniques necessary to participate in intercollegiate women’s rodeo events.

### **AGEQ 296 - Special Projects in Equine Studies- Behavior and Training - 1-4 units**

Individual opportunities to study investigate research and participate in equine studies projects that are specific to equine behavior and training such as; hackamore training, bridle training, advanced saddle horse training, cow-horse training, behavior modification. Student completes different performance objectives for each unit of credit.

### **AGEQ 297 - Special Projects in Equine Studies: Summer/Fall Operations - 1-4 units**

Individual opportunities to study investigate research and participate in equine studies projects that are specific to the Summer and Fall months such as; Fall production sales, Futurity Horse Training, Weaning and halter breaking foals, Fall Hunt-Packing trips, Winter livestock preparation. Student completes different performance objectives for each unit of credit.

### **AGEQ 298 - Special Projects in Equine Studies: Winter/Spring Operations - 1-4 units**

Individual opportunities to study investigate research and participate in specific equine studies projects during the Winter and Spring months such as; reproductive management of the stallion or broodmare, care of the newborn foal, starting the two year old, sale horse preparation, horse show preparation. Student completes different performance objectives for each unit of credit.

### **AGEQ 299 - Special Topics in Equine Studies - 0.5-3 units**

Course covers selected topics in evolving issues or research in the area of Equine Studies or special field topics not covered by regular course offerings. Independent student research and presentation are emphasized.

## **Mechanized Agriculture**

### **AGMA 084 – Ranch Operations: Fencing and Irrigation – 3 units**

General introduction into irrigation and fencing principles: plant, soil, and water relationships; soil moisture sensing devices; delivery systems; design of drip, sprinkler, and surface irrigation systems, and use of chemigation. The class will also provide general knowledge into the fencing industry, including supplies, design, materials, and differing types of fencing.

### **AGMA 108 - Tractor Operation – 3 units**

This course involves design principles, selection, maintenance, adjustment, and safe operation of wheel and track type tractors used in agriculture and in the construction industry.

### **AGMA 140 - Beginning Agriculture Metal Fabrication – 3 units**

This course is designed to provide basic shop and job site fundamentals of welding; to allow students to design and apply arc and mig welding techniques as well as acetylene cutting in the field

### **AGMA 146 - Introductory Ag. Structural Technology – 3 units**

This is an introductory course in planning and designing various types of farm buildings necessary for agricultural enterprises. Characteristics, types, fabrication techniques and costs of construction materials used in farm buildings will be studied. A practical course in building metal, wood or composite frame buildings from planning to finish is included.

### **AGMA 160 - Introduction to Mechanized Agriculture – 3 units**

This course involves basic mechanical skills in woodworking, cold metal, electricity, plumbing, concrete, and project construction skills as related to farm maintenance and repair. Hand and power tool use skills will be developed. Safety practices for all mechanical areas will be covered.

## **Plant Sciences**

### **AGPS 104 - Introduction to Plant Science - 3 units**

Introduction to plant science including structure, growth processes, propagation, physiology, growth media, biological competitors, and post-harvest factors of food, fiber, and ornamental plants.

### **AGPS210 - Introduction to Soil Science - 3 units**

An introduction to the biological, chemical and physical properties of soils. Major topic areas include the relationship of soil characteristics to land management, maintenance of soil productivity, soil erosion processes and erosion control methods, soil classification and the use of soil survey information in agriculture, watershed and wildlife applications. The relationship of soil properties and the geologic/geomorphic setting is emphasized. Cross-listed with ENVR210.





Feather River College  
Agriculture

# I WANT TO ATTEND! WHAT DO I DO NOW?



WE RECOMMEND YOU ACCOMPLISH THE FOLLOWING

- Take a Tour of the Campus:**
  - Contact Crystal Anderson or Riley York at (530) 283-0202 or 1-800-442-9799 at ext. 272 or 306 to schedule a tour of the Agriculture, Horse or Rodeo Facilities. For a campus-wide tour, contact Scott Koeller (skoeller@frc.edu) at ext. 315.
- Complete an Application for Admission:**
  - An application can be completed online at [www.frc.edu](http://www.frc.edu). Select “*Future Students*,” followed by “*Application*.” For new students, select “*First Time User Account Creation*.” Complete all information as requested. To submit the application click on the “*Application is Complete*” button, then print the “*Signature Page*” with your new 9 digit Student Identification Number.
  - Students interested in the Equine and Ranch Management Bachelor Degree Program must complete an addition application. The bachelor level application is available on our website at [www.frc.edu/admissions/Apply-for-Bachelor-Program.cfm](http://www.frc.edu/admissions/Apply-for-Bachelor-Program.cfm).
  - For additional questions about registration, contact the Admissions and Records Office at (530) 283-0202 or 1-800-442-9799 at ext. 600.
- Make an Appointment with Advisor or Agriculture Department Representative**
  - Representatives are available to assist the development of a Student Education Plan or to help develop the schedule of classes. Contact the Agriculture Department at (530) 283-0202 or 1-800-442-9799 at ext. 272 or Sean in Counseling & Advising at ext. 313.
- Find a Place to Live:**
  - On campus housing is available through Feather River College Residence Hall at (530) 283-9414. Contracts are available as early as January of the year of attendance. Space is limited so be sure to reserve your room as soon as possible!
  - Visit the Student Services website for the most up to date information and electronic housing board: [www.frc.edu/student-services/housing](http://www.frc.edu/student-services/housing) or visit the classifieds of the local paper, Feather River Bulletin for local rentals or visit their website at: [www.plumasnews.com](http://www.plumasnews.com)
- Plan to attend Day in the Mountains:**
  - Day in the Mountains is an event designed for the prospective/new student. Many services are brought together to facilitate the development of a schedule of classes, secure housing, discuss services available to students, and many other opportunities. Day in the Mountains is typically held the last week of April or first week of May. Please contact us for the upcoming dates.

