

# Ranch Management

## ASSOC OF APPLIED SCIENCE

**Major code:** 2170  
**Department:** Ag & Natural Resources  
**Chair:** Marcus Nichols  
**Advising:** Sandra Porter 541-881-5969

### PROGRAM OVERVIEW

This program prepares students for a wide variety of careers in Ranch Management, including manager of a small ranch, ranch hand, feedlot operator, brand inspector, and artificial inseminator. The program combines theory with practical skills needed for daily cattle operations. Students will learn the foundations of farm business and animal science as well as have hands-on experience working with ranch animals.

This degree is designed for students wishing to directly enter the workforce. It is not designed for transfer to a four-year institution, although some coursework may be transferable. Students who wish to transfer coursework are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan and to identify and contact an advisor at their chosen transfer institution. A minimum of 90 credits and a minimum grade point average of 2.0 are needed to graduate with a degree.

### LEARNING OUTCOMES

- Students who complete this area of study will be prepared to:
- Demonstrate proper use of ten common pieces of livestock handling/care equipment.
  - Keep and analyze record keeping system to make sound management decisions.
  - Identify and use five successful marketing systems for farm and ranch products.
  - Identify and implement livestock breeding program using genetic improvement principles, artificial insemination, and pregnancy testing.
  - Develop a feeding program for specific species of livestock satisfying nutrition requirements for appropriate growth phase.
  - Select and implement an appropriate record keeping system that satisfies state and federal requirements.
  - Develop and implement ranch or farm conservation plan based on soil series, grazing management and irrigation methods.

### DUAL CREDIT (2+2)

Students will receive credit for Ag & Natural Resources classes taken in high school as equivalent to college classes provided that the high school classes are listed on a signed articulated on agreement between the specific high school and the college. Credit will be transcribed as equivalent to a parallel community college course.

### WORK BASED LEARNING

Students integrate classroom learning with work-based learning by participating in an internship (Cooperative Work Experience, AG 280) at a supervised work site. Department Chair approval is required. Credits and grades are based on job hours worked, work performance, and completion of learning objectives specified in a learning contract.

### RELATED EDUCATIONAL REQUIREMENTS (13 CREDITS)

All career and technical education degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed

to support student competence and success in the workplace. Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be required to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

COURSE #	COURSE TITLE	CREDITS
- INED 157	EMPLOYMENT STRATEGIES.....	2
- MATH 063	TECHNICAL MATH I.....	4
- PSYC 101	PSYCHOLOGY OF HUMAN RELATIONS.....	3
- WR 115	INTRO TO COLLEGE WRITING.....	4

### REQUIRED COURSES (77 CREDITS)

Courses are listed in suggested sequence.

#### YEAR 1

COURSE #	COURSE TITLE	CREDITS
- AET 212-Ag Safety Mngmnt OR INED 212 Industrial Safety.....		3
- AG 111	AGRICULTURE COMPUTERS.....	3
- AG 207	AGRICULTURE SEMINAR.....	1
- ANS 121	INTRO TO ANIMAL SCIENCE.....	4
- ANS 200	LIVESTOCK SKILLS.....	3
- ANS 210	FEED AND RATION FORMULATION.....	3
- ANS 211	APPLIED ANIMAL NUTRITION.....	3
- ANS 215	BEEF/DAIRY CATTLE PRODUCTION.....	3
- ANS 216	BEEF PREGNANCY TESTING.....	3
- ANS 217	ARTIFICIAL INSEMINATION.....	3
- ANS 231	INTRO TO LIVESTOCK EVALUATION.....	3
- ANS 240	INTRO TO ULTRASOUND TECHNOLOGY.....	2
- AREC 221	MARKETING IN AGRICULTURE.....	3
- HPE 120	FIRST AID & CPR.....	2

#### YEAR 2

COURSE #	COURSE TITLE	CREDITS
- AG 280	AGRICULTURE COOP WORK EXP.....	3
- AG 201	CURRENT ISSUES IN AGRICULTURE.....	2
- ANS 205	FOOD ANIMAL HEALTH & DISEASE.....	2
- ANS 224	PUREBRED HERD IMPROVEMENT.....	2
- ANS 250	INTRO TO MEAT SCIENCE.....	3
- ANS 278	PRINCIPLES OF ANIMAL BREEDING.....	3
- AREC 201	AGRICULTURE ACCOUNTING.....	3
- AREC 210	FARM BUSINESS MANAGEMENT.....	3
- AREC 211	MANAGEMENT IN AGRICULTURE.....	4
- CSS 205	GENERAL SOILS.....	3
- CSS 210	FORAGE PRODUCTION.....	3
- CSS 240	INTRO TO NOXIOUS WEEDS.....	3
- NATR 241	INTRO TO RANGE MANAGEMENT.....	4

**Total number of credits**..... 93

### ELECTIVES (3 CREDITS)

Consult an advisor for suggested courses.