

# Crop Science

## ASSOC OF APPLIED SCIENCE

**Major code:** 2070  
**Department:** Ag & Natural Resources  
**Chair:** Sandra Porter  
**Advising:** Sandra Porter 541-881-5590

### PROGRAM OVERVIEW

Students learn techniques to improve production, planting, harvesting and sustainable farming techniques. Will provide the necessary skills to manage a profitable, environmentally-sound farm, ranch or agricultural business. Graduates are qualified for employment in a variety of positions associated with agriculture, including horticultural and livestock operations, wholesale and retail management, nursery operations and environmental and agricultural education.

### PROGRAM/DISCIPLINE OUTCOMES

Student who complete this area of study will be prepared to

- Attain professional skills necessary for careers associated with crop production, including tools to enable lifelong learning and skills for adapting to a changing world.
- Identify plant diseases and soil nutrient deficiencies.
- Plan a sustainable profitable crop rotation needed for soil conservation.
- Describe the life cycle of the region crop commodities, how they are marketed, and how the local, regional, national and global economies affect that.
- Learn the skills needed for irrigation equipment operation and maintenance.
- Learn the skills needed for common crop equipment maintenance and repair.

### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

WR 115 or higher (4 cr)  
 COM 111Z or BA 204 (4/3 cr)  
 Math 93 or higher (4 cr)  
 PSYC 101 (3 cr)  
 INED 157 (2 cr)

### REQUIRED COURSES (70 CREDITS)

Courses are listed in suggested sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
- AG 111	AGRICULTURE COMPUTERS.....	3
- AG 207	AGRICULTURE SEMINAR.....	1
- AG 215	IRRIGATION AND DRAINAGE.....	4
- AREC 221	MARKETING IN AGRICULTURE.....	3
- CSS 200	PRINCIPLES OF CROP SCIENCE.....	4
- CSS 205	GENERAL SOILS.....	4
- CSS 215	SOIL NUTRIENTS & FERTILIZER.....	3
- CSS 217	PESTICIDE SAFETY AND USE.....	1
- INED 113	BASIC HYDRAULICS.....	2
- NATR 112	GLOBAL POSITIONING SYSTEMS (GPS)....	2
- WELD 150	BASIC WELDING I.....	5

#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
- AG 280	AGRICULTURE COOP WORK EXP.....	4
- AG 201	CURRENT ISSUES IN AGRICULTURE.....	2
- AG 212	ENGINE THEORY & OPERATION.....	3
- AREC 210	FARM BUSINESS MANAGEMENT.....	3
- AREC 211	MANAGEMENT IN AGRICULTURE.....	4
- CSS 210	FORAGE PRODUCTION.....	3
- CSS 240	INTRO TO NOXIOUS WEEDS.....	3
- HORT 111	INTRO TO PLANT GROWTH.....	3
- INED 114	BASIC PNEUMATICS.....	3
- INED 212	INDUSTRIAL SAFETY & MANAGEMENT.....	3
- NATR 103	APPLIED BOTANY.....	3
- WELD 296	WELDING FABRICATIONS PRACTICES.....	4

**Total number of credits.....** 91

### ELECTIVES (5 CREDITS)

Electives