



MASTER COURSE OUTLINE

Prepared By: Landra Kosa

Date: Nov 2019

COURSE TITLE

Agricultural Weeds Identification and Control

GENERAL COURSE INFORMATION

Dept.: AGR

Course Num: 211

(Formerly:)

CIP Code: 01.0301

Intent Code: 21

Program Code: 105

Credits: 5

Total Contact Hrs Per Qtr.: 55

Lecture Hrs: 55

Lab Hrs:

Other Hrs:

Distribution Designation:

COURSE DESCRIPTION (as it will appear in the catalog)

This course covers the classification, identification and control of weeds that economically affect agriculture in the Columbia Basin and surrounding areas.

PREREQUISITES

None

TEXTBOOK GUIDELINES

Textbook determined by Agriculture faculty (Example: Weeds of the West, 2000, Western Society of Weed Science Publ.)

COURSE LEARNING OUTCOMES

Upon successful completion of the course, students should be able to demonstrate the following knowledge or skills:

1. Identify when a plant is a weed or not a weed depending on where it is growing.
2. Identify the costs of controlling weeds, to a dollar per acre basis.
3. Describe the competition factors of weeds to crops when given the type and size of weed, to include nutrients, water, and available space requirements.
4. Identify weeds by applying plant anatomy and morphology.
5. Categorize plants into their proper taxonomic family based on external morphology.
6. Identify crop plants and weeds, which are members of the same taxonomic family.
7. Classify weeds by life cycle into categories of winter annual, summer annual, biennial and perennial when provided with an identification list.
8. Define the means of spread or dispersal of a given weed.
9. Classify means by which weeds spread into sexual or asexual.
10. Select an herbicide based on the mode of action.

INSTITUTIONAL OUTCOMES

IO3 **Human Relations/Workplace Skills:** Students will be able to demonstrate teamwork and/or workplace specific skills related to human relations

COURSE CONTENT OUTLINE

1. Introduction to Weed Science
2. Plant Morphology/Taxonomy
3. Classification, Identification and Spread of Weeds
4. Methods of Weed Control
5. Principles of Herbicide Usage and Selectivity
 - a. Modes of action
6. Herbicide Application
 - a. Application Technology
7. Herbicide Resistance

DEPARTMENTAL GUIDELINES *(optional)*

Students will do a culminating weeds collection project.

Weeds covered in the identification portion of this course should be a concern in the state of Washington and the agriculture industry.

Utilize the BCC irrigation site when possible.

DIVISION CHAIR APPROVAL

DATE