

# CROP SCIENCE (CROP)

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## **CROP\*3300 Grain Crops Winter Only (LEC: 3) [0.50]**

Management strategies and world production of the major temperate grain crops are studied relative to their botanical and physiological characteristics and to available environmental resources. The utilization of grain crops for human food, livestock feed, and various industrial products are examined.

**Prerequisite(s):** AGR\*2050 or AGR\*2470

**Department(s):** Department of Plant Agriculture

**Location(s):** Guelph

## **CROP\*3310 Protein and Oilseed Crops Fall Only (LEC: 3) [0.50]**

Management strategies and world production of the major temperate protein and oilseed crops are studied relative to their botanical and physiological characteristics and to available environmental resources. The utilization of protein and oilseed crops for human food, livestock feed and various industrial products are examined.

**Prerequisite(s):** AGR\*2050 or AGR\*2470

**Department(s):** Department of Plant Agriculture

**Location(s):** Guelph

## **CROP\*3340 Managed Grasslands Fall Only (LEC: 3, LAB: 2) [0.50]**

Managed forage grasses and legumes provide grazing, cover crops, conserved feed, and a wider range of services to the environment and society at large. Agro-ecological, genetic, and managerial considerations will be integrated toward addressing questions of ruminant and equine production and environmental management. Forage species will be distinguished morphologically and physiologically, focusing on adaptation to climatic, edaphic, and managerial constraints and applications for horses, including weed and poisonous plant risks. Topics will include: sward lifespan, establishment and maintenance practices, forage quality indices, integration of harvest management for pastures and stored feed, and environmental implications for plant and animal biodiversity and water quality.

**Prerequisite(s):** 1 of AGR\*2050, AGR\*2320, AGR\*2470, ENVS\*2060

**Department(s):** Department of Plant Agriculture

**Location(s):** Guelph

## **CROP\*4220 Cropping Systems Winter Only (LEC: 3) [0.50]**

This course will cover the design of cropping systems for specific livestock, poultry and cash crop enterprises; integration of all factors affecting crop yields, quality and economy of production such as choice and interchangeability of crops, crop sequence, tillage, pest control, seasonal work programming, harvesting, drying and storage.

**Prerequisite(s):** (1 of CROP\*3300, CROP\*3310, CROP\*3340), (1 of AGR\*2320, ENVS\*3080, ENVS\*4090, ENVS\*4160)

**Department(s):** Department of Plant Agriculture

**Location(s):** Guelph

## **CROP\*4240 Weed Science Fall Only (LEC: 3, LAB: 3) [0.50]**

Weeds will be studied in relation to agricultural practices. Principles of chemical, mechanical and biological control will be outlined. Laboratories will include weed identification, weed control methods, and demonstrations of the effects of various herbicides.

**Prerequisite(s):** AGR\*2470

**Department(s):** Department of Plant Agriculture

**Location(s):** Guelph

## **CROP\*4260 Crop Science Field Trip Fall Only (LAB: 4) [0.50]**

This field study course is designed to increase the student's knowledge of agricultural production, agricultural policy and agri-business. Students will tour the midwestern United States just prior to the start of the fall semester, visiting cash crop, horticultural and livestock farms, and supporting industries such as processing, manufacturing, elevators and stockyards. A student fee will be assessed to cover transportation and lodging.

**Prerequisite(s):** 12.50 credits including AGR\*2470

**Restriction(s):** A cumulative average of 65%. Instructor consent required.

**Department(s):** Department of Plant Agriculture

**Location(s):** Guelph