Course Code: (use ALPHA prefixes):	Semester Offering:	Credit Weight:
AGR*2030	Fall	**0.50**
Course Title: **Pasture Management**	**Lecture and Lab Hours (eg. 3-3): (3-2)** **Lectures**: 3 x 1 hr M, T, Th 10-10 :50 am **Lab:** 1 x 2 hr Wed 10-12pm	
Instructor Name: Dr. Paul Sharpe, Fraser 207; 613 258 8336 ext 61448; psharpe@kemptvillec.uoguelph.ca **Office Hours**: Mon, Tues, Thurs 2-3 pm		

Calendar Description:

This course focuses on forage and weed identification, establishing, maintaining and improving pasture for grazing or cropping, and environmental and conservation stewardship approaches to pasturelands.

Evaluation

Tests & assignments*	40
Laboratory assignments	30
Final exam	30
TOTAL	100%

*Two tests will occur in weeks 4 and 9 and are worth 15% each.
A Comprehensive Assignment to be completed in weeks 10-12 will be worth 10%.
There will be 10 lab assignments, due at the end of each lab period and worth 3% each.

Method of Presentation

Course Delivery: Lectures to be given using visual material including readings, Powerpoint presentations, overheads, and videos. There will be guest lecturers. Laboratory sessions will involve hands-on learning of plant species, identification, growth and maintenance. Field trips will complement theoretical learning.

Course Objectives: List out in numerical order the various student learning objectives/ acquired skills.

Upon completion of this course, students should/will:

1. know structure and physiology of pasture grasses and legumes; be competent at identification and selection of pasture species.
2. assess the commercial and nutritional value of pasture species for herbivorous animals
3. evaluate the potential of given sites and soils for pasture development
4. define methods used in managing the establishment of pasture
5. explain the techniques used in managing an established pasture
6. identify and apply pest and disease management techniques
7. evaluate and manage weather and climate effects on pastures
8. differentiate management practices for grazing and crop pastures

Weekly Course outline

DATE	Week	Lect/ Lab #	ACTIVITIES
Sep 8-16	1	Lecture	Introduction. Plant structure& physiology. Pasture Plant identification. Nutritional value to horses.
		Lab	Identifying pasture species (Wed). Pasture tour at National Equestrian Park (Fri).
Sep 19-23	2	Lecture	Plant Nutrition & Growth. Soil types. The function and significance of soil horizons. Relationship between soil textures and hydrological principles. Water management. Different soil cultivation techniques. Plant response to environment.
		Lab	Grass Identification Part 2. Planting forage seeds in greenhouse.
Sep 26-30	3	Lecture	Pasture improvement. Pasture use. Maximizing the value of pasture.
		Lab	Farm tour and Soil sampling.
Oct 3-7	4	Lecture	Pasture establishment, maintenance, renovation and machinery. Brief review. **Test 1 on Thursday**.
		Lab	Farm tour.
Oct 11-14	5	Lecture	(**No Monday class – THANKSGIVING)** Pasture is more than grass. Weeds.
		Lab	Weed identification
Oct 17-21	6	Lecture	Forage yield and pasture mass. Review test 1.
		Lab	Estimating pasture yields and pasture quality.
Oct 24-28	7	Lecture	Plant toxins. Pasture Hazard Review. Parasites.
		Lab	Video: Pasture For Horses (Penn State).
Oct 31- Nov 4	8	Lecture	Grazing behaviour. Stocking rates.
		Lab	Calculating stocking rates.
Nov 7-11	9	Lecture	Managing forage resources. Grazing techniques and management. Continuous and rotational stocking systems.
		Lab	No lab
Nov 14-18	10	Lecture	Review. **Test 2.** Water Management. Making Hay.
		Lab	Weather and Climate Effects on Plant Hardiness
Nov 21-25	11	Lecture	Pasture Mgmt & Wildlife. Equestrian & Wildlife Issues. Grazing & Best Environmental Practices
		Lab	Wildlife control measures.
Nov 28 – Dec 1	12	Lecture	Conservation management plan addressing erosion control, proper grazing, adequate pasture stand density, and pasture condition. Review for Final Exam
		Lab	**Comprehensive Assignment Due:** Develop management plan for pasture in a specified situation, including a program of tasks to be carried out over a 12 month period. **Course Evaluation.**
Dec 13	13		Final Exam Dec 7, 2011 8:30 – 10:30 am

Course Prerequisite(s):	**Course Restriction(s):(if limited enrolment)**
SOIL*2010; BIOL*1040	
Text Book(s) Required: ***Pasture Production, OMAFRA Publication 19*** ***Identification Guide to Weeds of Quebec*** ***2011 Pasture Lab manual***	**Reference Material:** Various materials
Additional Course Requirements: (additional fee for course; requirement of work boots, special hand tools, clothing, etc.) None	
Additional Information: 1. For labs outdoors, check the weather and wear appropriate footwear and clothing to allow you to be comfortable for 2 hours. **2.** Individual lab reports are due at the end of each lab unless otherwise indicated. **3.** Failure to show up for testing will result in a mark of 0 (zero) unless the student submits a "Request for Reconsideration" form to the lab office (Parish 216B) by the last day of classes. **4.** Instructions for the term assignment are in your lab manual. The due date is: Nov 30 by 12:00 noon. **5.** Late assignments or lab reports will **not** be marked. Any illegible or un-named assignments will not be marked. **6.** The student is responsible for reading and understanding the Undergraduate Degree Regulations and Procedures for Academic Misconduct (http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-amisconduct.shtml	

STUDENT RESPONSIBILITIES:

- ✓ **It is expected that all students will respect the personal dignity of others and have a shared commitment to the goals of education.**
- ✓ **Students will interact with each other and the instructor in a courteous manner.**
- ✓ **Students come to class on time, prepared and ready to participate. Class attendance is paramount to academic achievement.**
- ✓ **Lap top computers are permitted for note taking and class related purposes only. Communicating via Face Book or other social media during class is strictly forbidden. Failure to comply will result in the removal of computer privileges.**
- ✓ **Cell phones must be turned off or set to vibrate during class time.**