Forage Crops - CSS 210 - Spring 2021

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ZOOM CLASS: Monday 10:00 AM - 11:50
LAB: Online videos, worksheets and activities
Class Website: CSS 210 Moodle

Required Text: No textbook required. There are articles, videos and worksheets on MOODLE and the internet you need to access. You need a computer, high speed internet.

GOALS: Emphasizes practices that produce maximum economic returns from land devoted to pasture. Students identify and describe factors contributing to pasture ecosystems, factors effecting forage plant growth and nutritive value, and identify major forage species and weeds that inhabit western pasture. This course also provides an introduction to pasture production and management, forage preservation and utilization. We will use critical thinking, case studies, discussions and other resources to understand the advantages/disadvantages of various management practices. You acquire knowledge of basic forage crops management as currently understood.

Learning Objectives:

1. Identify common forage crops utilized in livestock production.
2. Describe proper selection, establishment and utilization of common forage crops.
3. Describe effective grazing management strategies.
4. Describe environmental effects of livestock grazing.
5. Identify hazards and health issues associated with grazing livestock.

GRADING: *Tentative class points are as follows*:

Exams/Quizzes (3 at 40 pts each)	120 pts	A= 90 – 100%
Activities/homework	60 pts	B= 80 – 89
Abstracts (3 at 10 pts each)	30 pts	C= 70 – 79
Final (comprehensive)	100 pts	D= 60 – 69
	310 pts	F= 59 or less

Quiz and exam material will come from zoom class, on-line articles, videos and assigned readings.
Prerequisite: College level reading and writing skills
Student Expectations: You are responsible for all the material covered. Agriculture is the science/ practice of farming, including growing crops and animals to provide food, wool, and other products. Agriculture is the manipulation of biological processes to achieve a defined outcome. The better your understanding of the biological system, the more likely you are to achieve the desired outcome.

ONLINE CLASS

The nature of Agriculture is extremely hands-on and active. Online Ag sciences are extremely difficult classes, so we need to be patient, understanding and helpful to each other (cheating/copying is not helpful – it may get you a zero on the assignment or removed from class).
I start with the assumption that you are in this class because you **want to learn**. The material covered in class will be important as you move into your professional program and career. Yes, there are more opportunities to cheat in online courses, but that shows you value a grade more than your dignity, self-respect and future profession. So let us rise to the occasion and be a professional.

MAKE-UP EXAMS will NOT be given after the scheduled date for an exam except for reasons of illness or emergency beyond the student's control.
Do NOT ask to "round-up" your grade, consider your "special circumstance(s)" (unless backed by LBCC policies), or offer additional extra credit to boost your grade. If you are worried about your grade, **be proactive** and come to my office for help.
Simply sending an email does not then make it my responsibility to follow-up with you as the student.

LEARNING ENVIRONMENT
Netiquette: In an online classroom, our primary means of communication is zoom and written. The written language has many advantages: more opportunity for reasoned thought, more ability to go in-depth, and more time to think through an issue before posting a comment. However, written communication also has disadvantages, such a lack of the face-to-face signaling that occurs through body language, intonation, facial expressions, and gestures. As a result, please be aware of the possibility of miscommunication and compose your comments in a positive, supportive, and constructive manner.

Course Policies Expectations of students:

- I expect you to keep up with the material covered every week.
- Complete your homework and quizzes on time every week.
- Produce homework and quizzes/exams reflecting your own work and submitted on time.
- Participate actively and courteously during the zoom classes.
- Abide by the standards of academic honesty and student code of conduct.
- Seek help (instructor) when you don't understand a topic.
- Aspire to enjoy learning about forage crops and pasture management!

Expectations of the instructor: You can expect me to;

- Provide an engaging zoom class activity – but without great students, this will not happen.
- Provide comprehensive learning material on time every week.
- Create quizzes and exams that reflect the learning outcomes for the course.
- Show you how important forage crops and pasture management is by using real examples.

STUDENT BEHAVIOR: Although collaboration is important in learning, ultimately each student is responsible for demonstrating individual ability. Cheating on exams and copying homework/lab activity reports will result in a zero for that activity and may result in further disciplinary action. Code of Conduct All participants in the course are bound by the Linn-Benton Community College **Students' Rights Responsibilities and Conduct.**

If you have documented your disability, remember that you must make your request for accommodations through the Center for Accessibility Resources (CFAR) **Online Services webpage** every term in order to receive accommodations. If you believe you may need accommodations but are not yet registered with CFAR, please visit the **CFAR Website** for steps on how to apply for services or call **(541) 917-4789**.

CSS 210 Forage Crops Spring 2021 Tentative schedule of topics

Assignments and their due date will be posted on MOODLE

WEEK 1 March 29 Class intro/expectations. Pasture ecosystem; Biotic vs abiotic factors, soil health, photosynthesis, C3 vs C4, plant morphology

WEEK 2 April 5 Forage identification, forage types and selection,

WEEK 3 April 12 Pasture establishment and renovation, irrigation, soil testing, fertilization
EXAM 1 on MOODLE Wednesday April 14 from 9am to 10 am

WEEK 4 April 19 Grazing management, plant growth cycle, response to defoliation, forage quality, forage sampling
Abstract 1 Due by Sunday, April 25

WEEK 5 April 26 Grazing types; MIG (Management Intensive Grazing) & Rotational Grazing

WEEK 6 May 3 Animals/plants Response to Grazing
***EXAM 2* on MOODLE Wednesday May 5 from 9am to 10 am**

WEEK 7 May 10 Pasture/paddock layout, mud management, watering layout, fencing
Abstract 2 Due by Sunday, May 16

WEEK 8 May 17 Forage related animal disorders; bloat, laminitis, nitrate poisoning, fescue toxicosis, grass tetany, selenium deficiency, alkaloids, prussic acid poisoning, sweet clover poisoning, hyperkalemia in equine and dairy
***EXAM 3* on MOODLE Wednesday May 19 from 9am to 10 am**

WEEK 9 May 24 Weed management.
Internal parasites and grazing management.
Abstract 3 by Sunday, May 30

WEEK 10 May 31 No class Monday – Memorial Day Holiday
Forage preservation; hay, silage, bailage and stockpiling.

Comprehensive FINAL EXAM Monday, June 7 on MOODLE from 9 – 11 am

Calendar of class activities is tentative and subject to change.