

Soil Fertility & Fertilizers Course Syllabus
SOIL 4160/5160
Fall 2011

Instructor: Renée Gebault King

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Office(s): Agriculture 1006 (graduate office)

Office Hours: M, W, F 11:00 a.m.-12:00 p.m. or by appointment

Course Information:

Class meets Tuesdays and Thursdays, 8:10-9:25 am in Education Annex (EA) 211

Prerequisites: Introduction to Soil Science (SOIL 2010)

Course Description:

This course examines the physical, chemical and biological aspects of soils that impact fertilizer fate, uptake and plant growth. (Normally offered fall semester of odd-numbered years)

Disability Statement:

If you have a physical, learning, sensory or psychological disability and require accommodations, please let me know as soon as possible. You will need to register with and provide documentation to University Disability Support Services (UDSS) regarding your disability; the UDSS is located in Knight Hall, room 330.

Objectives/Outcomes/Standards:

- A. Compare and contrast various types of soil fertilizers available for use in production agriculture.
- B. Calculate fertilizer needs based on agricultural scenarios.
- C. Differentiate and describe common plant nutrient deficiencies.
- D. Describe the complexity of factors that influence nutrient bioavailability and response in fertility management programs.

Texts:

Western Fertilizer Handbook, 9th edition. Western Plant Health Association. Waveland Press, Inc. ISBN: 1-57766-679-8.

Soil Fertility and Fertilizers: an Introduction to Nutrient Management, 7th edition. J.L. Havlin, J.D. Beaton, S.L. Tisdale and W.L. Nelson. Pearson/Prentice Hall. ISBN: 0-13-027824-6.

Attendance/Participation Policy:

Refer to UW Regulation 6-713

<http://www.uwyo.edu/generalcounsel/support/clean/%20uw%20regulations/UW%20Reg%206-713.pdf>

University sponsored absences are cleared through the Office of Student Life (OSL). Students with official authorized absences shall be permitted to make up work without penalty in classes missed.

Academic Honesty and Plagiarism:

The University of Wyoming is built upon a strong foundation of integrity, respect and trust. All members of the university community have a responsibility to be honest and the right to expect honesty from others. Any form of academic dishonesty is unacceptable to our community and will not be tolerated [from the UW General Bulletin]. Teachers and students should report suspected violations of standards of academic honesty to the instructor, department head, or dean. Other University regulations can be found at:

<http://uwadmweb.uwyo.edu/legal/universityregulations.htm> University regulations concerning academic dishonesty will be strictly enforced. UNIREG 6-802, Revision 2 (subsections 3e-3h) defines academic dishonesty to include:

- Using notes or prepared information in an examination unless authorized by the instructor.
- Copying from, or assisting, another student during an examination.
- Stealing, or otherwise improperly obtaining, copies of an examination before or after its administration.
- All quotes and ideas from other sources should be properly attributed.

The penalty for committing academic dishonesty and/or plagiarism in this class is a grade of "F" for the entire course. In addition, a letter will be placed in your University "citizenship" file. The University Regulation that outlines academic dishonesty can be found here: <http://uwadmweb.uwyo.edu/legal/Uniregs/ur802.htm>.

Absence Policy:

A scheduled exam missed due to an unexcused absence will result in a grade of zero. In order to be permitted to make up an exam, the absence must be to an authorized excuse. Make-up exams will be given only under the following conditions:

1. Participation in organized school activity
2. Death in the immediate family
3. Illness (with written doctor's excuse)
4. Special circumstances that are approved to be appropriate by the instructor

FOR EACH OF THESE EXCUSES, YOU MUST HAVE DOCUMENTATION TO MAKE UP YOUR EXAM! Make-up exams will only be given to those students who have discussed their absence with the instructor and have a legitimate excuse. Legitimate excuses do not include sleeping in, leaving early for breaks, work schedule, and other such excuses. Make-up exams will need to be scheduled with the instructor and will need to be completed in a timely manner.

Course Outline: Read assignments and all materials prior to class to facilitate discussion. More details about assignments/activities will be provided as the semester progresses. Most assignments will be submitted via WyoSakai; grades and comments will also be available through WyoSakai.

Assignment/Activity	Due Date	Points Possible
Chapter Study Questions	Each Friday by 5:00 pm via WyoSakai	5 pts/question; total of 100 pts
Various in-class activities	TBA	100
Film Critique Essay	6 Sep.	50
Exam I	27 Sep.	100
Fertilizer Summary	27 Oct.	50
Exam II	1 Nov.	100
Soil Analysis Report (5160 students only)	10 Nov.	100
Journal Paper Critique & Presentation (5160 students only)	22 Nov.	100
Extension Bulletin & Presentation	29 Nov. & 1 Dec.	100
Final Exam (cumulative)	TBA	200

Grading Standards:

Grades are based on the standard percentage scale as follows:

<u>4160 Students</u>
A = 800-720
B = 719-640
C = 639-560
D = 559-480
F < 479

<u>5160 Students</u>
A = 1000-900
B = 899-800
C = 799-700
D = 699-600
F < 599