

NRES 201

Introductory Soils

Fall 2009

Lecturers

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Laboratory Instructors

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NRES class web site: <http://courses.nres.uiuc.edu/nres201/>

Illinois Soil Productivity Web site: <http://www.nres.uiuc.edu/soilproductivity>

Grades at: <http://compass.illinois.edu/>

Text

Elements of the Nature and Properties of Soils, 3rd edn. (2009). Pearson Prentice Hall.
By N. C. Brady and R. R. Weil.

Grades and Grading

	<u>Points</u>		<u>Points</u>
Quizzes (11@20 pts; drop lowest)	200	A+	≥ 970
Problem sets (3@40 pts)	120	A	940-969
Hour exams (2@100 pts)	200	A-	900-939
Laboratory grade	280	B+	870-899
Final exam	200	B	840-869
Total	1000	B-	800-839

Bonus credit (from lectures)

40

C+

770-799

C

740-769

Fine print:

- A quiz will be given each Friday, except Sep. 25 and Oct. 30.
- No makeup quizzes except for excused absences prior to quiz
- Problem sets are due at the beginning of lecture. No late problem sets.
- Quizzes and exams are closed book.
- Laboratory grade is for write-ups and quizzes.
- Final exam is comprehensive.
- Bonus credit is for unannounced lecture questions.

C-

700-739

D+

670-699

D

640-669

D-

600-639

F

< 600

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Fall 2009 Lecture Schedule

Section 1

Primary Lecturer: Professor Olson

Period(s)	Date(s)	Topic	Reading
1	Aug. 24	Introduction	Chap. 1
2-3	Aug. 26-28	Soil Formation & Horizons	————
4-5	Aug. 31-Sep. 2	Soil Formation & Weathering	Chap. 2
6	Sep. 4	Soil Classification	Chap. 3
	Sep. 7	Labor Day (no class)	————
7-9	Sep. 9-14	Soil Classification & Mapping	————
10	Sep. 16	Soil Organic Matter	Chap. 11
11,12	Sep. 19-22	Soil Management & Erosion	Chap. 14
13	Sep. 23	Soil Productivity	
14	Sep. 25	Exam 1	————
15-16	Sep. 28-30	Physical Properties	Chap. 4
17-19	Oct. 2-7	Soil Water	Chap. 5
20- 21	Oct. 9-12	Hydrologic Cycle	Chap. 6

Section 2

Primary Lecturer: Professor Mulvaney

Period(s)	Date(s)	Topic	Reading
22-24	Oct. 14-19	Soil Aeration & Temperature	Chap. 7
25-27	Oct. 21-26	Colloidal Properties	Chap. 8
28	Oct. 28	Exam 2	————
29-31	Oct. 30-Nov.4	Soil Acidity, Alkalinity, & Salinity	Chap. 9
32-34	Nov. 6-11	Soil Organisms & Ecology	Chap. 10
35-37	Nov. 13-18	Biotic Cycling of N & S	Chap. 12
38	Nov. 20	Soil P	Chap. 12
————	Nov. 23-27	Thanksgiving Recess	————
39-40	Nov. 30-Dec.2	Soil K & Micronutrients	Chap. 12
41-43	Dec. 4-9	Practical Nutrient Management	Chap. 13
————	Dec. 18	Final Exam (8-11 am)	————

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Fall 2009 Laboratory Schedule

Week of	Topic	Points
Aug. 24	Soil color, structure, texture (by feel), & soil horizons 1	20
Aug. 31	Description of soil cores 2	20
Sep. 7	Labor Day week (no laboratories all week)	
Sep. 14	Description of the soil profile (South Farm field trip) 3A	20
Sep. 21	Use of soil survey maps 3B and soil erosion (Cir. 1220) 4A, 4B, 4C	20
Sep. 28	Aggregate stability 5	20
Oct. 5	Soil texture (by hydrometer), bulk and particle densities 6	20
Oct. 12	Soil water 7	20
Oct. 19	Cation exchange capacity & preparation for biological activity lab 8	20
Oct. 26	Soil pH and lime recommendations 9	20
Nov. 2	Biological activity in soils 10	20
Nov. 9	Soil-based nitrogen management 11	20
Nov. 16	Lab practical 12	60

Lecture Section AL1: Monday, Wednesday, Friday from 11:00A.M. to 11:50A.M.
Lecturers: Dr. Kenneth Olson and Dr. Richard Mulvaney

Lab sections and instructors:

Section AB1: Monday 1:00-4:00P.M. Instructor: Dr. Saeed Khan

Section AB3: Tuesday 2:00 -5:00P.M. Instructor: Shelby Henning

Section AB4: Wednesday 1:00-4:00P.M. Instructor: Bhupinder Farmaha

Section AB5: Thursday 1:00-4:00P.M. Instructor: Dr. Saeed Khan