

## CSS 205: Fall 2020 Schedule

Wk	Weekly Reading	Focus	Due Monday	Due Thursday*
1	Ch 1, 2	Class Orientation Introduction to Soils  <i>Lab 1: Soil Formation</i>	<u>Sep 28</u>	<u>Oct 1</u> <ul style="list-style-type: none"> <li>Pre-Lab 1</li> <li>Homework 1</li> </ul>
2	Ch. 3	Soil Formation  <i>Lab 2: Soil Survey</i>	<u>Oct 5</u> <ul style="list-style-type: none"> <li>Reading Quiz 1</li> <li>Lab 1</li> </ul>	<u>Oct 8</u> <ul style="list-style-type: none"> <li>Pre-Lab 2</li> <li>Homework 2</li> </ul>
3	Ch. 4	Soil Physical Properties  <i>Lab 3: Soil Physical Properties</i>	<u>Oct 12</u> <ul style="list-style-type: none"> <li>Reading Quiz 2</li> <li>Lab 2</li> </ul>	<u>Oct 15</u> <ul style="list-style-type: none"> <li>Pre-Lab 3</li> </ul>
4	Ch. 5	Soil Water  <i>Lab 4: Soil Water</i>	<u>Oct 19</u> <ul style="list-style-type: none"> <li>Reading Quiz 3</li> <li>Lab 3</li> </ul>	<u>Oct 22</u> <ul style="list-style-type: none"> <li>Pre-Lab 4</li> </ul>
5	Ch. 6	Soil Water (continued) <b>Lab 5 moved to next week</b> <i>Exam Review on Moodle</i> <i>Reading Guide is for Quiz 5 on 11/9</i>	<u>Oct 26</u> <ul style="list-style-type: none"> <li>Reading Quiz 4</li> <li>Lab 4</li> <li>Sponge Activity</li> </ul>	<u>Oct 29</u> <ul style="list-style-type: none"> <li>Homework (?)</li> <li>(No Pre-Lab)</li> </ul>
6	Ch. 8, 9	Soil Chemistry and Salinity  <i>Lab 5: Soil Horizons</i>	<u>Nov 2</u> <ul style="list-style-type: none"> <li><b>MIDTERM EXAM</b> (will include all material through Soil Water)</li> </ul>	<u>Nov 5</u> <ul style="list-style-type: none"> <li>Pre-Lab 5</li> </ul>
7	Ch. 10	Soil Organisms and Ecology  <i>Lab 6: Soil Chemistry</i>	<u>Nov 9</u> <ul style="list-style-type: none"> <li>Reading Quiz 5</li> <li>Lab 5</li> </ul>	<u>Nov 5</u> <ul style="list-style-type: none"> <li>Pre-Lab 6</li> </ul>
8	Ch. 11	The Carbon Cycle and Soil Organic Matter  <i>Lab 7: Soil Ecology</i>	<u>Nov 16</u> <ul style="list-style-type: none"> <li>Reading Quiz 6</li> <li>Lab 6</li> </ul>	<u>Nov 19</u> Pre-Lab 7
9	Ch. 12	Nutrient Cycles and Soil Fertility  <i>Lab 8: Soil Organic Matter and Soil Nutrients</i>	<u>Nov 23</u> <ul style="list-style-type: none"> <li>Reading Quiz 7</li> <li>Lab 7</li> </ul>	<u>Nov 26</u> <ul style="list-style-type: none"> <li>Pre-Lab 8</li> </ul> <i>This is Thanksgiving!</i> <i>So turn in early to avoid any conflicts!</i>
10	Ch. 14, 15	Soil Erosion, Pollution and Conservation  <i>Lab 9: Soil Environmental Issues</i>	<u>Nov 30</u> <ul style="list-style-type: none"> <li>Reading Quiz 9</li> <li>Lab 8</li> </ul>	<u>Dec 3</u> <ul style="list-style-type: none"> <li>Pre-Lab 9</li> </ul>
Finals			<u>Dec 7</u> <ul style="list-style-type: none"> <li><b>FINAL EXAM</b></li> <li>Lab 9</li> </ul>	

## Instructor Information

Hathai Sangsupan

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Zoom Office Hour: Monday 1:30 pm – 2:30 pm (or by appointment)

## Course Information

Lecture and Lab: Online

## Course Description

Soils are the foundation of terrestrial ecosystems and a strong understanding of soil science is important to the success of any undertaking humans do on land. This course covers the ecological role soil plays as a medium for plant and crop growth, the recycling of nutrients, the supply and purification of water, and as a habitat for a diverse population of soil organisms. This course also discusses how human activities affect the sustainability of soil ecosystems.

## Student Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Describe the functions of soils in natural and managed ecosystems
2. Discuss the physical, chemical and biological properties of the soil
3. Evaluate the impact of human activities on soil and environmental quality
4. Apply soil science concepts to everyday experiences as well as specific fields of study such as agronomy and forest engineering.

## Required Course Materials

- **Elements of Nature and Properties of Soil**, (4thEdition), Prentice-Hall, 2018.  
Purchase at the bookstore.

- **Lab Packet**

Mailed to each student

- **Other Lab Materials**

Student responsible for acquiring the following:

- |  |  |
|--|--|
| • Garden trowel or shovel (1)              | • Quart sized mason jar with lid (1)             |
| • Kitchen scale that measures in grams (1) | • Pint sized mason jar or jelly jar with lid (1) |
| • Drinking straw (1)                       | • Ruler that measures in cm (1)                  |
| • Clear 10-oz plastic cups (4)             | • Timer (cellphone works!)                       |
| • White vinegar (160 mL, ~2/3 cup)         | • Scotch tape (just a small piece)               |
| • Camera (cellphone works!)                |  |

**Note: If you have difficulty obtaining these materials, please contact me as soon as possible.**

## Assignments, Exams, and Grading

Grading is based on mastery of the course subject matter. Points towards your final grade will be awarded as follows. Assignments and point totals may change.

Graded Assignments	No. of Possible Points	% of Final Grade	Grading Scheme	
Pre-Labs: 10 labs @ 2 pts each	20	5%	A	90 – 100%
Labs: 10 labs @ 12 pts each (drop lowest)	108	27%	B	80 – 89%
8 Reading Quizzes @ 10 pts each (drop lowest)	70	17.5%	C	70 – 79%
Activities, Reflections, and Homework (varying pts)	22	5.5%	D	60 – 69%
1 Midterm	80	20%	F	0 – 59.9%
1 Final Comprehensive Exam	100	25%		
<b>Total</b>	<b>400</b>	<b>100%</b>		

### Reading Guides and Reading Quizzes

Students are expected to do the reading before the start of each week. This is so that you will have some background knowledge of the material before we cover it in lecture. Reading guides will help you focus on key terms and concepts. They will be posted each week on Moodle. As you do the reading, fill out the guide. You may use the completed reading guide during each reading quiz. You may also use lecture notes for the review questions.

There will be 8 reading quizzes which will have 8 questions based on the information in the text and 2 review questions. Each quiz will be open for you to take on Moodle between 8 am and 11:59 pm each Monday. Once you open the quiz, you will have 12 minutes to complete it.

### In-Class Learning and Activities

CSS205 will be a combination of lecture and active learning. There will be questions and activities in which you will be expected to actively participate. It is important that you watch lectures so you do not miss out on these!

### Exams

The Midterm Exam covers Weeks 1-4. The Final Exam covers Weeks 5-10 and is **comprehensive**. Exams include multiple choice and short answer questions based on lectures, reading, and labs. They will be available for 24 hours on Moodle. You will have 2 hours to complete it once you begin.

### Lab Assignments

Labs are a critical component of the learning process in all science classes. They provide you with invaluable hands-on learning experiences and challenge you to use critical thinking to make decisions that can affect the

outcomes of your labs. The labs in this class are designed to reinforce the learning from the lectures and reading. Please make sure you watch the lectures and finish the readings before you do the lab so that you understand the lab objectives and maximize your learning!

Because this is a lab class you **must complete and submit lab worksheets for at least 8 of the 10 labs to pass this class**. Pre-lab assignments are worth 2 pts and are to be turned in by midnight each Thursday. Lab worksheets are worth 10 points each and are to be turned in by midnight each Sunday (see schedule on 1<sup>st</sup> page of syllabus). The lab questions will gauge how well you understood the lab. I will be looking for answers that are well thought out and demonstrate you understand the lab objectives. You can only turn in lab worksheets if you completed the lab.

### **Make-ups**

Your lowest lab and lowest quiz will be dropped.

All assignments will be available online well ahead of the due date and can be submitted electronically, consequently no late work will be accepted.

If you are unable to take a quiz or exam when it is open on Moodle, it is your responsibility to contact me as soon as possible to schedule a make-up time. No make-ups will be given after the quiz or exam is returned to the class. Students will be allowed only **one make-up for quizzes per quarter**. There will be no make-up for the final exam.

### **Incomplete Grades**

An Incomplete grade (IN) will only be considered if a student has spoken with me in advance and completed a signed agreement between the student and myself. An IN grade is assigned only if the student has a good reason for making the request, has only a minority of coursework to complete, and has scored a C or better on work that has been submitted.

### **Behavior and Expectations**

Students are most successful when watch the lectures and complete assignments. The more effort that you as the student put in the more that you will get out of this class. My role as an instructor is to support your learning process, so if you have any questions or concerns, please contact me or see me during zoom office hours.

### **Attendance**

The class is completely online therefore attendance is not required. Students, however, are expected to watch all lectures and complete all lab assignments. It is your responsibility to keep track of upcoming assignments, quizzes, exams, and due dates.

### **Guidelines for Communication**

My primary communication method with you is through your **Linn-Benton email address** and our **Moodle class page**. Check your LBCC email regularly! If you don't, you will miss emails from me regarding assignments, due dates, and exams.

## **Academic Integrity**

This class expects that students conduct individual work. Any cheating, plagiarism, etc., may result in a zero and possible recommendation to the administration for further consequences. You are held accountable to the [Student Code of Conduct](#), which outlines expectations pertaining to academic honesty (including cheating and plagiarism), classroom conduct, and general conduct.

Please complete, sign, and submit the student Statement of Academic Integrity (<https://forms.gle/EW4MhySecf5NwqSSA>) to confirm that you are aware of and agree to the expectations of the course.

## **Expectations for Respect**

Your instructor will make every attempt to create an environment conducive to learning and one open to free discourse. The college environment is one of exploring ideas, but also in a context of mutual respect for your peers and instructors. If a pattern of disrespect develops the instructor reserves the right to discuss appropriate behavioral expectations with individuals who may not fully understand this responsibility. At no time will a hostile or condescending environment or discussion be permitted.

## **College Policies**

### **LBCC Email and Course Communications**

You are responsible for all communications sent via Moodle to your LBCC email account. You are required to use your LBCC provided email account for all email communications at the College. You may access your LBCC student email account through Student Email.

### **Disability and Access Statement**

You should meet with your instructor during the first week of class if:

1. You have a documented disability and need accommodations.
2. Your instructor needs to know medical information about you.
3. You need special arrangements in the event of an emergency.

### **Request for Special Needs or Accommodations**

Direct questions about or requests for special needs or accommodations to the LBCC Disability Coordinator, RCH-105, 6500 Pacific Blvd. SW, Albany, Oregon 97321, Phone 541-917-4789 or via Oregon Telecommunications Relay TTD at 1-800-735-2900 or 1-800-735-1232. Make sign language interpreting or real-time transcribing requests 2-4 weeks in advance. Make all other requests at least 72 hours prior to the event. LBCC will make every effort to honor requests. LBCC is an equal opportunity educator and employer.

### **LBCC Comprehensive Statement of Nondiscrimination**

LBCC prohibits unlawful discrimination based on race, color, religion, ethnicity, use of native language, national origin, sex, sexual orientation, gender, gender identity, marital status, disability, veteran status, age, or any other status protected under applicable federal, state, or local laws. For further information see Board Policy P1015 in our Board Policies and Administrative Rules. Title II, IX, & Section 504: Scott Rolen, CC-108, 541-917-4425; Lynne Cox, T-107B, 541-917-4806, LBCC, Albany, Oregon. To report: [linnbentonadvocate.symplicity.com/public\\_report](http://linnbentonadvocate.symplicity.com/public_report)



## **Statement of Inclusion**

To promote academic excellence and learning environments that encourage multiple perspectives and the free exchange of ideas, all courses at LBCC will provide students the opportunity to interact with values, opinions, and/or beliefs different than their own in safe, positive and nurturing learning environments. LBCC is committed to producing culturally literate individuals capable of interacting, collaborating and problem-solving in an ever-changing community and diverse workforce.

## **Title IX Reporting Policy**

If you or another student are the victim of any form of sexual misconduct (including dating/domestic violence, stalking, sexual harassment), or any form of gender discrimination, LBCC can assist you. You can [report](#) a violation of our sexual misconduct policy directly to our Title IX Coordinator. You may also report the issue to a faculty member, who is required to notify the Coordinator, or you may make an appointment to speak confidentially to our Advising and Career Center by calling 541-917-4780.

## **Campus Police/Emergency Resources**

You may review emergency services and resources at the LBCC [Public Safety website](https://www.linnbenton.edu/faculty-and-staff/college-services/public-safety-emergency-planning-ehs/index.php) (<https://www.linnbenton.edu/faculty-and-staff/college-services/public-safety-emergency-planning-ehs/index.php>). Campus Safety can be reached using the 'Code 2' button on any campus phone or by dialing x411 on campus or (541) 917-4440 off campus. Dial 911 for off campus emergencies.

## **Changes to the Syllabus**

I reserve the right to change the contents of this syllabus due to unforeseen circumstances. You will be given notice of relevant changes in class, through a Moodle Announcement or through LBCC e-mail.

## **Support Services Available**

### **Learning Center, Writing Center, and English Language Learners Center**

The learning center provides academic support and a comfortable place to study. It is located on the second floor above the library. It also provides free tutoring services for all classes.

### **Library**

The LBCC Library is the main library on campus and offers many helpful resources, including computers and printing.