

## CSS 205: Spring 2022 Schedule

Wk	Weekly Reading	Focus	Due Tuesday (1 pm)	Due Thursday (1 pm)
1	Ch 1, 2	Class Orientation Introduction to Soils  <i>Lab 1: Soil Formation</i>	<u>March 29</u> <ul style="list-style-type: none"> <li>Read syllabus</li> <li>Explore moodle page</li> </ul>	<u>March 31</u> <ul style="list-style-type: none"> <li>Pre-Lab 1</li> <li>Schedule meeting w/Hathai</li> </ul>
2	Ch. 3	Soil Formation  <i>Lab 2: Soil Survey</i>	<u>April 5</u> <ul style="list-style-type: none"> <li>Week 2 Reading Quiz</li> <li>Week 2 Reading Guide</li> <li>SYU: Part 1</li> </ul>	<u>April 7</u> <ul style="list-style-type: none"> <li>Pre-Lab 2</li> </ul>
3	Ch. 4	Soil Physical Properties  <i>Lab 3: Soil Physical Properties</i>	<u>April 12</u> <ul style="list-style-type: none"> <li>Week 3 Reading Quiz</li> <li>Week 3 Reading Guide</li> </ul>	<u>April 14</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>April 19</u> <ul style="list-style-type: none"> <li>Week 4 Reading Quiz</li> <li>Week 4 Reading Guide</li> </ul>	<u>April 21</u> <ul style="list-style-type: none"> <li>Pre-Lab 4</li> </ul>
5	Ch. 6	Soil Water (continued)  <i>Lab 5: Soil Horizons</i> <i>Exam Review on Moodle</i>	<u>April 26</u> <ul style="list-style-type: none"> <li>Week 5 Reading Quiz</li> <li>Week 5 Reading Guide</li> </ul>	<u>April 28</u> <ul style="list-style-type: none"> <li>Pre-Lab 5</li> </ul>
6	Ch. 8, 9	Soil Chemistry and Salinity  <i>Lab 6: Soil Chemistry</i>	<u>May 3</u> <ul style="list-style-type: none"> <li>MIDTERM EXAM</li> </ul>	<u>May 5</u> <ul style="list-style-type: none"> <li>Pre-Lab 6</li> </ul>
7	Ch. 10	Soil Organisms and Ecology  <i>Lab 7: Soil Ecology</i>	<u>May 10</u> <ul style="list-style-type: none"> <li>Week 7 Reading Quiz</li> <li>Week 7 Reading Guide</li> </ul>	<u>May 12</u> <ul style="list-style-type: none"> <li>Pre-Lab 7</li> </ul>
8	Ch. 11	The Carbon Cycle and Soil Organic Matter  <i>Lab 8: Soil Organic Matter and Soil Nutrients</i>	<u>May 17</u> <ul style="list-style-type: none"> <li>Week 8 Reading Quiz</li> <li>Week 8 Reading Guide</li> </ul>	<u>May 19</u> <ul style="list-style-type: none"> <li>Pre-Lab 8</li> </ul>
9	Ch. 12	Nutrient Cycles and Soil Fertility  <i>Lab 9: Soil Nutrients</i>	<u>May 24</u> <ul style="list-style-type: none"> <li>Week 9 Reading Quiz</li> <li>Week 9 Reading Guide</li> </ul>	<u>May 26</u> <ul style="list-style-type: none"> <li>Pre-Lab 9</li> </ul>
10	Ch. 14, 15	Soil Erosion, Pollution and Conservation  <i>Lab 10: Soil Environmental Issues</i>	<u>May 31</u> <ul style="list-style-type: none"> <li>Week 10 Reading Quiz</li> <li>Week 10 Reading Guide</li> </ul>	<u>June 2</u> <ul style="list-style-type: none"> <li>Pre-Lab 10</li> <li>SYU: Part 2</li> </ul>
Finals			<u>June 7</u> <ul style="list-style-type: none"> <li><b>FINAL EXAM (2:30 – 4:20 pm)</b></li> </ul>	

# CSS 205: Soils - Sustainable Ecosystems

## CRN 43316

### Instructor Information

Hathai Sangsupan (She/her)

sangsuh@linnbenton.edu

Office Hour: Wed 11:50 am – 12:50 pm, WOH 123 (or via zoom)

### Course Information

Course Format: Hybrid

Lectures: Tuesday, 1:00 pm – 2:50 pm, WOH 212, some lectures will be recorded and available online

Lab: Thursday, 1:00 pm – 3:50 pm, WOH 122

### 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** (4<sup>th</sup> Edition), Prentice-Hall, 2018. Available online.
- **Green Book (8-page Examination Book)**. Provided in class. Bring to every lecture.

### 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	4.9%	A	90 – 100%
Labs: 10 labs @ 10 pts each (drop lowest)	90	22%	B	80 – 89%

Lecture Activities, Reflections, and Homework (varying pts)	34	8.3%
8 Reading Quizzes @ 10 pts each (drop lowest)	70	17.1%
8 Reading Guides	16	3.9%
1 Midterm	80	19.5%
1 Final Comprehensive Exam	100	24.4%
<b>Total</b>	<b>410</b>	<b>100%</b>

C	70 – 79%
D	60 – 69%
F	0 – 59.9%

### 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 given in the first 10 minutes of class. Please be sure to get to class on time so that you can have the maximum amount of time to take the quiz.

### 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 come to class so that you don't 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.

### Lab Assignments

This is a lab class. 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. Because this is a lab class you **must attend and turn in completed lab worksheets for at least 7 of the 10 labs to pass this class**. Pre-lab assignments are to be turned in at the beginning of each class. They will be graded using the following rubric:

- Pre-Lab: 2 pts
- Lab completion and worksheet questions: 10 pts - 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 have attended and completed the lab. They will normally be due at the end of the lab session, but may occasionally be due on the Monday after the lab.

## **Make-ups**

Pre-Labs are due at the beginning of lab class and cannot be turned in late. Labs cannot be made up. Students are allowed one make-up Reading Quiz per quarter. Your lowest lab and lowest quiz will be dropped. This is designed to give you some flexibility in case there is a time when you are not able to complete a lab or a quiz.

If you are unable to take the midterm exam on the scheduled day, 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 exam is returned to the class. 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 they attend and watch lectures, complete assignments, ask questions, and participate in class. 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.

Students are expected to watch all recorded lectures the videos linked to the lectures, as you will be responsible for that material as well. 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 handed out on the first day of class 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.

## CSS205 COVID-19 POLICY

LBCC lifted its mandatory indoor mask requirement on March 18, 2022.

- LBCC leadership encourages people to continue wearing masks even after our mandatory requirement is lifted. The safest way we can ensure a learning environment free from illness is by continuing to take precautions. Please support those who choose to continue masking.
- N95 masks are available to all students and employees at LBCC. If you would like an LBCC-provided N95 mask, [please fill out this form](#). Disposable masks will continue to be available at most LBCC building entrances.
- For the most recent updates on LBCC COVID-19 requirements, links to the form the positive COVID-19 reporting form, and other FAQs, please visit this site: <https://www.linnbenton.edu/about-lbcc/college-services/safety/covid19/index.php>

### Attendance (with COVID-19 caveat)

The class is primarily in-person although there will be some lectures recorded and posted on moodle. Attendance is both a privilege and a requirement for all classes and labs.

That said, I understand the challenges many of us are facing during this ongoing pandemic. I will try to be flexible to accommodate any challenges you face, but I do require that you **communicate closely** with me about them and have some form of documentation to verify it.

### We all want to avoid jeopardizing the health of students so DO NOT attend class if:

- You test positive for COVID-19
- You have any Covid-19 symptoms
- You have been exposed to someone who is infected with Covid-19 and have not been vaccinated
- You have any reason to believe you might be infected with Covid-19 and are awaiting the results of a Covid-19 test

### Email me as soon as you are aware that you are or might be infected with COVID-19.

We will work together to answer any questions about whether or not you should attend or when you can return to class. The recommendations and requirements are a bit in flux, but we will figure it out. As I said previously, if you communicate with me, we can work out accommodations.

In the event the class is exposed to the virus, I reserve the right to move the classes from in-person to online for 1-2 weeks, but of course we want to avoid this scenario at all costs. After more than a year of online classes, we all know what a privilege it is to be in a classroom learning together. To ensure that we are safely able to continue to do so, we must all do our part to prevent exposing the class to the virus.

Also, if you have not already been vaccinated against COVID-19, please consider it. The vaccines are widely available, free, and have been taken safely by many millions of people. They will protect you from getting seriously ill and reduce your risk of contracting the virus and passing it to your loved ones and your classmates.

## 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>). 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.