

O'Neill

Lead for the Greater Good

O'Neill School of Public and Environmental Affairs *[SPEA E555 and Silviculture and Sustainable Forestry]*

Instructor: *Sander Denham; sodenham@indiana.edu; MSB II cell:828-506-1106*

Class Meeting: *MW 7:45-9:00 AM; PV 276 (Note that this room has changed from 272 as of 8/21/2020)*

Office Hours: *Tuesday 10:00AM-1:00PM; 343 MSB II; and by appointment (email to make)*

Course Description: Students will gain valuable knowledge of forest management techniques and interventions commonly used in of U.S. forests, and understand their usefulness for developing sustainable management regimes. The course will introduce forest biometric data collection and survey techniques, and their linkages to foundations of forest ecology including plant anatomy, specialization of plant organs, and plant reproductive cycles. Specific focus will be given to three forest management objectives: ecological, economic, and social, and how to integrate each objective into a sustainable management for a specific forest stand.

Learning Outcomes:

In this course, students will learn:

- Fundamental concepts in silviculture and sustainable forestry, with particular focus on US and Scandinavian forests.
- To qualitatively and quantitatively evaluate forest parcels
- To evaluate relevant scientific research and apply it to practical forestry issues
- To appreciate and work with the diversity of functions and stakeholders related to forests
- To apply a pragmatic systems-approach to global forests
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Learning outcomes are what the students know and can do by the end of the course. Learning outcomes state in clear terms what it is that your students should be able to do at the end of a course that they could not do at the beginning.

(<https://citl.indiana.edu/teaching-resources/course-design/developing-learning-outcomes/>)

Course Materials:

Readings will be posted on Canvas and should be read BEFORE the associated class period.

Course Requirements (% of final grade)

1) Textbook assignment (10%)

(available on canvas... textbook purchase necessary)

This assignment is designed to introduce concepts of sustainability and ecosystem service consideration in forest management. These concepts will be incorporated into most aspects of the course for the duration.

2) Participation (25%)

Active participation in lecture is essential to a good grade in this class, and will be measured through attendance and contributions to discussions.

3) Paper reviews (25%)

The lecture section of the class will be paper-heavy, and we will typically discuss 1-2 papers per session. These paper review worksheets will help guide your reading of the paper (and ensure that you do in fact read them!).

4) Forest Certification paper (20%)

This is something like an in-depth literature review and will consist of evaluating two forest certification programs and how they compare to one another. This will include their cost-effectiveness to landowners, comprehensiveness of their sustainability objectives, and which program the student would choose if they owned forested land.

5) Global forests / Tree diseases paper/presentation (20%)

The class will conclude with a short paper accompanied by a series of presentations that target major forest regions around the world. This is aimed at addressing similar topics and issues that we discussed in class.

Grading scale

The standard, where A+ = 97-100%, A = 93-97%, A- = 90-93%, etc

Attendance

I will not be taking attendance in this class—that said, I do expect that assignments are submitted whether or not you attend the session. Please get in touch with me if additional accommodations need to be made, I understand that we are experiencing an extremely bizarre time and will make reasonable accommodations within my ability.

Electronics

Phones and Laptops are permitted, but with the understanding that you will be using them for relevant items and maintain a respectful atmosphere for instructor and classmates.

Late Assignments

In general, every day an assignment is late will result in a 10% penalty (the equivalent of a full letter grade). This is obviously not an option for some things, such as tests, presentations, and in-class response assignments. Contact me well in advance if you have a good justification for why something will be late and want an extension—and a minute before the deadline won't count as I'll need time to consider the request and respond.

Class Conduct

I like to maintain a relatively informal atmosphere during class, but I insist that you be courteous and respectful to everyone in the class, both in the classroom and online. Failure to do so will be reflected in your participation grade and could lead to further action.

Academic Integrity:

Please refer to the code through the university, my expectations are in line with the university policy.

Read through the following documents to get a sense of what is expected of you. I have very little tolerance for cheating and other forms of misconduct, which now include selling your class notes and posting my lectures online.

IU Student Rights, Responsibilities, and Conduct:

<http://www.iu.edu/~code>

SPEA student honor code:

<https://myspea.indiana.edu/doc/ugrad-doc/ugrd-student-honor-code.pdf>

Regarding plagiarism:

1) Know what it is

Plagiarism is one of the deadly intellectual sins, along with cheating, fabrication, and a few others (see the above links). Most simply, plagiarism is when you claim someone else's words or ideas as your own. Of course, this doesn't mean that you shouldn't use other people's words and ideas, just that you need to give them appropriate credit, such as through citations and quotation marks for direct quotes. Copying and pasting something off the internet without referencing the source is a common example of plagiarism. A less common example is copying and pasting from your own previous work, but in SPEA that also counts.

2) And then don't do it

Please, just don't. It is a lazy shortcut that is both illegal (really!) and, in the end is really not much of a shortcut for all the trouble it brings. It is also very easy to spot and often even easier to confirm. It would probably take more time and energy to get away with plagiarizing than it would to just not plagiarize in the first place.

3) Otherwise...

If it is a clear case of plagiarism, the first response will be a warning that consists of a zero on the assignment, a 50-100% cut to your participation grade for the class (depending on the severity of the case), and an official report to the program office that will go on your record. A second case will result in more than a slap on the wrist.

Writing Help

If you are concerned about plagiarism or simply want to improve your writing skills,

- 1) Come to my office hours or find time to talk to me about your writing (do this BEFORE submitting an assignment!)
- 2) Get in touch with the Writing Tutorial Service at IU (<http://www.indiana.edu/~wts/>). They are located in Ballantine 206 and can be reached at 855-6738.

Incompletes and Late Withdrawals

If we get well into the semester and “*dire circumstances relating to extended illness or equivalent distress*” (IU Enrollment and Student Academic Information Bulletin) prevent you from finishing the class, you have the option to request either a late withdrawal or an incomplete grade. The first option should be done if you are past the normal withdrawal period but not near the end of the semester, and the second if you have completed most of the work for the class but the dire circumstances are preventing you from completing major final projects or tests. Both of these require a formal petition and a better explanation than simply you were doing poorly in the class. More information is available in the Student Academic Information bulletin and at

<https://policies.iu.edu/policies/aca-67-incompletes/index.html>.

Disability, harassment, and other issues

Please let me know as soon as possible if you have any issues that you think I should know about, or if anything comes up as the semester goes along. Other campus services are below:

Disability Services: <https://studentaffairs.indiana.edu/disability-services-students/>

Counseling: <http://healthcenter.indiana.edu/counseling/index.shtml>

Counseling and Psychological Services (CAPS) at 812-855-5711

Sexual harassment: <http://stopsexualviolence.iu.edu/help/index.html>

Sexual Assault Crisis Service (SACS) at 812-855-8900

General health: <http://healthcenter.indiana.edu/>

Student Rights

Any student who believes another person in a class is threatening the safety of the class by not wearing a mask or observing physical distancing requirements may leave the class without consequence.

Attendance

The student commitment form requires that you take your temperature every morning and that you refrain from attending class if you have a temperature of 100.4 or other symptoms of illness. In order to ensure that you can do this, attendance will not be a factor in the final grade. Attendance may still be taken to comply with accreditation requirements.

Assigned Seating

In order to ensure we can contact you in the event you are exposed to COVID-19, you must remain in your assigned seat for the entire semester.

Schedule of Assignments: *I will do my best to stick to the following schedule. Please note that this is subject to change due to unforeseen circumstances. However, I do acknowledge that changes in schedules can lead to disruptions in both students and instructors plans so advance notice will be given and my expectations will be reasonable.*

Week	Date	Topic/Location	Readings	Assignments
1	Aug 24	Introduction		
	26	Intro cont. Dendr		
2	Aug 31	Dendro		
	Sept 2	Measurements		
3	7	Measurements		
	9	Forest Policy	2016_Book_SustainabilityScience.pdf-- Chapter 5	Sec. 2- Q3 Sec. 3- Q1, Q2, Q3 Sec. 4- Q1 and Q3 Sec. 5- Q1 & Q2
4	14	Stand exams/ biometrics	Bauhus et al., 2009	<i>worksheet*</i>
	16			
5	21	Forest Certification	Garzon et al., 2020	<i>worksheet*</i>
	23			
6	28	SFM- Ecological	Hanson et al., 2012	<i>worksheet*</i>
	30		Rodriguez et al., 2020	<i>worksheet*</i>
7	Oct 5	SFM-Economic		
	7			
8	12	SFM- Social		
	14			Forest Cert paper due***
9	19	Even-aged forests		
	21	Un-even aged forests	Puettmann et al., 2015	<i>worksheet*</i>
10	26	Pine forests of SE US		
	28		Zhao et al., 2020	<i>worksheet*</i>
11	Nov 2	Hardwood Forests of Eastern US		
	4			
12	9	Evergreen Forests of PNW		
	11	Guest Lecture: Nils Anders	Norway and Sweden Forestry	
13	16	Tree Diseases		
	18			
14	23	Thanksgiving Break – no class		
	25			
15	30	Urban Forestry	Winbourne et al., 2020	<i>worksheet*</i>
	Dec 2		Thomsen et al., 2020	<i>worksheet*</i>
16	7	Guest Lecture: Jaakko Nippala	Finland's forests, land use and climate policy (tentative)	
	9			Global Forestry/Tree Diseases Papers due***
17	14	Finals week – no class--- Final Presentation during exam period		
	18			

***Paper worksheet templates are available on canvas and will guide the reading**

*****Papers can be submitted by noon of Friday of the week which they are due**

Disclaimers from IU

Note Selling: Several commercial services have approached students regarding selling class notes/study guides to their classmates. Selling the instructor's notes/study guides in this course is not permitted. Violations of this policy will be reported to the Dean of Students as academic misconduct (violation of course rules). Sanctions for academic misconduct may include a failing grade on the assignment for which the notes/study guides are being sold, a reduction in your final course grade, or a failing grade in the course, among other possibilities. Additionally, you should know that selling a faculty member's notes/study guides individually or on behalf of one of these services using IU email, or via Canvas may also constitute a violation of IU information technology and IU intellectual property policies; additional consequences may result.

Online Course Materials: The faculty member teaching this course holds the exclusive right to distribute, modify, post, and reproduce course materials, including all written materials, study guides, lectures, assignments, exercises, and exams. While you are permitted to take notes on the online materials and lectures posted for this course for your personal use, you are not permitted to re-post in another forum, distribute, or reproduce content from this course without the express written permission of the faculty member. Any violation of this course rule will be reported to the appropriate university offices and officials, including to the Dean of Students as academic misconduct.

Additional information for students:

Counseling and Psychological Services For information about services offered to students by CAPS: <http://healthcenter.indiana.edu/counseling/index.shtml>.

Religious Observation In accordance with the Office of the Dean of Faculties, any student who wishes to receive an excused absence from class must submit a request form available from the Dean of Faculties for each day to be absent. This form must be presented to the course instructor by the end of the second week of this semester. A separate form must be submitted for each day. The instructor will fill in the bottom section of the form and then return the original to the student. Information about the policy on religious observation can be found at the following website: <https://policies.iu.edu/policies/aca-59-accommodation-religious-observances/index.html>

Disability Services for Students Securing accommodations for a student with disabilities is a responsibility shared by the student, the instructor and the DSS Office. For information about support services or accommodations available to students with disabilities, and for the procedures to be followed by students and instructors: <https://studentaffairs.indiana.edu/student-support/disability-services/index.html>

Sexual Harassment As your instructor, one of my responsibilities is to help create a safe learning environment on our campus. Title IX and our own Sexual Misconduct policy prohibit sexual misconduct. If you have experienced sexual misconduct, or know someone who has, the University can help.

If you are seeking help and would like to talk to someone confidentially, you can make an appointment with:

- i. The Sexual Assault Crisis Service (SACS) at 812-855-8900
- ii. Counseling and Psychological Services (CAPS) at 812-855-5711
- iii. Confidential Victim Advocates (CVA) at 812-856-2469
- iv. IU Health Center at 812-855-4011

For more information about available resources:

<http://stopsexualviolence.iu.edu/help/index.html>. It is also important to know that federal regulations and University policy require me to promptly convey any information about potential sexual misconduct known to me to our campus' Deputy Title IX Coordinator or IU's Title IX Coordinator. In that event, they will work with a small number of others on campus to ensure that appropriate measures are taken and resources are made available to the student who may have been harmed. Protecting a student's privacy is of utmost concern, and all involved will only share information with those that need to know to ensure the University can respond and assist. I encourage you to visit <http://stopsexualviolence.iu.edu/help/index.html> to learn more.

Commitment to Diversity: Find your home and community at IU

Asian Culture Center

Address: 807 East Tenth Street, Bloomington, IN 47408

Phone: 812-856-5361

Email: acc@indiana.edu

Website: <https://asianresource.indiana.edu/index.html>

First Nations Educational & Cultural Center

Address: 712 E 8th St., Bloomington, IN 47408

Phone: 812-855-4814

Email: fnecc@indiana.edu

Website: <https://firstnations.indiana.edu/contact/index.html>

LGBTQ+ Culture Center

Address: 705 E 7th St., Bloomington, Indiana 47408

Phone: 812-855-4252

Email: gltbtserv@indiana.edu

Website: <https://lgbtq.indiana.edu/contact/index.html>

La Casa Latino Culture Center

Address: 715 E 7th St., Bloomington IN, 47408

Phone: 812-855-0174

Email: lacasa@indiana.edu

Website: <https://lacasa.indiana.edu/>

Neal Marshall Black Culture Center

Address: 275 N Jordan Ave Bloomington, Indiana 47405

Phone: 812-855-9271

Email: nmgrad@indiana.edu

Website: <https://blackculture.indiana.edu/index.html>