

Time and Location: Monday and Wednesday from 9:30am to 10:45am
Briscoe Quad Room C135

Instructor: Stephen 'Chip' Glaholt
School of Public and Environmental Affairs Room/Lab 472
sglaholt@indiana.edu

Credit hours: 3

Office hours: School of Public and Environmental Affairs 472 or Adjunct Faculty Office 412.
By appointment, email me a day & time. I'm happy to make time for you.

Course description:

Applied Ecology is the utilization of ecological principles, related to the relationship between biotic (living things) and abiotic (environmental) factors, to address environmental issues. The goal of this course is for each student to build an understanding of ecological principals and theories, then apply this knowledge bases to address enduring and current environmental problems. To achieve this goal you will be required to participate in class discussions and keep up with pre-class reading, writing, and other graded assignments. In order to be ambitious about breadth of coverage, we will have to make sacrifices in depth, which is usually the case in introductory courses.

Course prerequisites:

No background in ecology and relatively little background in general science is required.

Required materials:

(eText) Smith, L.R. 2015. Ecology and field biology, 9th ed. Benjamin Cummings Publisher, NY.

Overall course grade

Please note that Class participation makes up 10% of your grade in this course. This grade is based on contributions during class and requires speaking up in class or in small groups. If you have a fear of speaking in front of an audience, I will happily work with you to overcome or offer alternative methods. However, **it is your responsibility to contact me about concerns within the first two weeks of class.**

	Intended learning outcome	Percent
I	Class participation	10
II	First exam	15
III	Second exam	15
IV	Quizzes	10
V	Presentation	20
VI	Final exam	30
	Total	100

Based on this point system the final grade will be assigned:

Grade	Min %
A+	97%
A	93%
A-	90%
B+	87%
B	83%
B-	80%
C+	77%
C	73%
C-	70%
D+	67%
D	63%
D-	60%
F	0%

I. Class participation (10%)

This grade is based on your contributions to class via question, answer, or comment in class. If you don't participate in class or an unexcused absence occurs, you must email a comment, opinion, question, or statement about what you learned from the lecture material prior to the start of the next class to receive full participation points for that day.

II., III., & VI. Exams (Exam-1 15%, Exam-2 15% and Final Exam 30%)

The examinations will assess the material covered in all classes (including guest lectures) preceding the date of each exam (i.e. cumulative). Only book material mentioned in class will be on exams, but other material may be useful for your lecture.

IV. Quizzes (10%)

- To ensure you are keeping up with the readings, pre-lecture chapter quizzes (7 total, with the lowest two grades dropped) will be utilized throughout the semester. Quizzes are posted on Canvas → Quizzes and are due prior to the start of that chapter's lecture.

V. Writing & Presentation Assignment (20%)

In groups of two (honor students will work solo), students will work with the instructor to define an environmental issue early on in the semester. Each group/student will conduct research on this topic to develop and present a lecture, and lead an in class discussion near the end of the semester.

Important campus-wide dates:

Class Begins	Jan 9
Martin Luther King Jr Day	Jan 16
Spring Break	Mar 12 - 19
Prep for Finals Week	Apr 23 – 30
Last Day of Classes	Apr 29
Final Exam	May 3 8:00am - 10:00am

No make-up examinations for unexcused absence!

An unexcused absence from an exam or quiz will result in a grade of zero.

Note: Only special cases warrant make-up exams.

Tentative course calendar (subject to change):

Week	Date	Lecture #- Topic	Assignments*
1	Mon 9-Jan	Course Overview	*Due before class
	Wed 11-Jan	1- Nature of Ecology	Read Chapter 1
2	Mon 16-Jan	Holiday- MLK Day	No Class
	Wed 18-Jan	2- Climatic Patterns	Read Chapter 2; Quiz #1 Due
3	Mon 23-Jan	3- The Aquatic Environment	Read Chapters 3
	Wed 25-Jan	4- Aquatic Ecosystem Dynamics	Read Chapters 24 & 25; Quiz #2 Due
4	Mon 30-Jan	5- The Terrestrial Environment; Discuss Topic Ideas	Read Chapter 4
	Wed 1-Feb	6- Terrestrial Ecosystem Dynamics	Read Chapter 23; Quiz #3 Due
5	Mon 6-Feb	Exam #1	
	Wed 8-Feb	7- Population Ecology: Structure	Read Chapter 8 & Top 5 Lecture Topics Due
6	Mon 13-Feb	8- Population Ecology: Growth & Regulation; Assign Lecture Topics & Groups	Read Chapters 9 & 10; Quiz #4 Due
	Wed 15-Feb	9- Population Ecology: Competition	Read Chapters 12 & 13
7	Mon 20-Feb	10- Community Ecology: Structure	Chapters 16 & 17; Quiz #5 Due
	Wed 22-Feb	11- Community Ecology: Dynamics	Chapter 18; Outline Draft Due
8	Mon 27-Feb	12- Landscape Dynamics	Read Chapter 19; Quiz #6 Due
	Wed 1-Mar	13- Ecosystem: Energy & Nutrient Dynamics	Read Chapters 20 & 21
9	Mon 6-Mar	Exam #2	
	Wed 8-Mar	14- Invasion Ecology (30min); Go Over Exam & Discuss Outlines	Refined Lecture Outline Due
10	Mon 13-Mar	Holiday- Spring Break	No Class
	Wed 15-Mar		
11	Mon 20-Mar	15- Applied Ecological Issue: Biological Diversity & Conservation (Dr. Meretsky)	Read Chapter 26; Quiz #7 Due
	Wed 22-Mar	16- Applied Ecological Issue: Integrated Pest Management (Dr. Lame)	Assigned Reading ¹ - TBA
12	Mon 27-Mar	TBD	Honor Student
	Wed 29-Mar	TBD	Groups 1 & 2
13	Mon 3-Apr	TBD	Groups 3 & 4
	Wed 5-Apr	TBD	Groups 5 & 6
14	Mon 10-Apr	TBD	Groups 7 & 8
	Wed 12-Apr	TBD	Groups 9 & 10
15	Mon 17-Apr	TBD	Groups 11 & 12
	Wed 19-Apr	TBD	Groups 13 & 14
16	Mon 24-Apr	TBD	Groups 15 & 16
	Wed 26-Apr	TBD & Review for Final	Group 17
17	Wed 3-May	Final	8:00 – 10:00 a.m.

On Canvas under Files → Readings:
Assigned Reading¹- TBA

Cheating: If you are caught cheating on an exam or commit plagiarism, you will receive zero points for that material and the incident will be reported to the Dean of Students for further action.

Respect: A respectful environment is an essential part of this class. Therefore, the use of cell phones (including messaging), email, facebook, web browsing, gaming, and other distractionary devices are strictly prohibited during class time and are ground for removal of the instrument or student. Furthermore, you are responsible for turn off these devices before entering the classroom. See also Civility Section in the SPEA Academic Policy below.

Official Indiana University policies:

I. Students with Learning Disabilities

Students with a learning disability, hearing impairment, speech impairment, or any other disability that may affect their ability to fulfill a requirement of the College should contact the Disability Services for Students in Franklin Hall 096, (812) 855-7578, prior to registering. Requirements will not be waived for students with disabilities; however, some modifications may be made within specific courses.

Source: <http://www.indiana.edu/~college/ado/policies.shtml>

II. Religious Holidays

To ensure freedom of religious observance throughout our increasingly diverse population, a set of Calendar Principles were approved by the Bloomington Faculty Council, including a Religious Holidays Policy. This policy requires instructors to make reasonable accommodation when a student must miss an exam or other academic exercise because of a required religious observance. Under IU policy, students are required to request accommodation for religious observance before, not after, it occurs. Instructors should include information about accommodation and the deadline for requesting it in their syllabi. Students are not required to supply evidence of their attendance at the religious services or events in order to qualify for any accommodation granted to them.

Source: <http://www.indiana.edu/~deanfac/holidays.html>

III. Academic Misconduct

Academic misconduct is defined as any activity that tends to undermine the academic integrity of the institution. Academic misconduct includes, but is not limited to, the following: cheating, fabrication, plagiarism, interference, violation of course rules, and facilitating academic dishonesty. The faculty member may take into account the seriousness of the violation in assessing a penalty for acts of academic misconduct. The faculty member must report all cases of academic misconduct to the dean of students, or appropriate official. The university may discipline a student for academic misconduct. Source: Indiana University Code of Student Rights, Responsibilities, and Conduct - <http://www.dsa.indiana.edu/Code/index1.html>

SPEA Academic Policies:

I. Academic dishonesty:

Plagiarism is using another person's words, ideas, artistic creations, or other intellectual property without giving proper credit. According to the Code of Student Rights, Responsibilities, and Conduct, a student must give credit to the work of another person when he/she does any of the following:

- a. Quotes another person's actual words, either oral or written;
- b. Paraphrases another person's words, either oral or written;
- c. Uses another person's idea, opinion, or theory; or
- d. Borrows facts, statistics, or other illustrative material, unless the information is common knowledge. SPEA faculty do not tolerate cheating, plagiarism, or any other form of academic dishonesty. If you have not done so, you should read the IUB Code of Student Rights, Responsibilities, and Conduct, which can be accessed at <http://dsa.indiana.edu/Code/> so you will be sure to understand what these terms mean and what penalties can be issued for academic dishonesty. Academic dishonesty can result in a grade of F for the class (an F for academic dishonesty cannot be removed from the transcript). Significant violations of the Code can result in expulsion from the University.

II. Civility:

Civility is important in an academic community to ensure that all parties—students, staff, and faculty—are working in an environment that fosters achievement of the individual's and community's goals and objectives. **Civility requires all parties to demonstrate personal integrity and conduct themselves in a manner that shows respect, courtesy and tolerance to others.** Examples of discourteous behaviors during class include reading the newspaper, listening to headphones, talking or laughing with others, chronically arriving late, and so forth. These behaviors are distracting to the instructor and classmates, and SPEA faculty will address these problems as they arise. Maintaining and fostering civility inside and outside the classroom is especially important to SPEA, which is a professional school. Pursuant to the Indiana University Student Code of Conduct, disorderly conduct which interferes with teaching, research, administration, or other university or university-authorized activity will not be tolerated and will be immediately reported to the Office of The Dean of Students for appropriate disposition which may result in disciplinary action including possible suspension and/or expulsion from the university.

III. Communication between faculty and students:

In order to verify the identity of all parties involved, effective September 1, 2004, all email communication from current SPEA students to SPEA staff must originate from an Indiana University email account. For email communication with SPEA faculty, current SPEA students should refer to course syllabi for instructors' preferences (Oncourse, Webmail, etc.). This policy applies to current students only. Instructions for forwarding your IUB email to another account can be found at <http://kb.indiana.edu/data/beoj.html?cust=687481.87815.30>

IV. Course withdrawals:

Students who stop attending class without properly withdrawing from the class may receive a grade of F. It is important to withdraw from a course within specified timeframes (see chart below). Note that withdrawals after Week 12 of a regular session or Week 4 of a summer session are rarely granted. Poor performance in a course is not grounds for a late withdrawal. No withdrawal forms will be processed in the Office of the Registrar after the last day of classes. Any requests for a late withdrawal after the last day of classes must go through the grade appeal process, but each student should remember that in accordance with campus policy, SPEA does not permit a student to withdraw from a course if he/she has completed the course requirements. Grade replacement should be used in this case. To withdraw, obtain a withdrawal slip (DROP/ADD Form) from the SPEA Student Services window. Instructions for completing it are given on the form.

V. Withdrawal deadlines:

Course deleted from record, no grade assigned, 100% refund
(Advisor signature IS NOT required) Week 1 (last day)
Withdrawal with automatic grade of W
(Advisor signature IS required) Week 2– Week 7 (regular session)
Withdrawal with grade of W or F
(Advisor and instructor signatures ARE required) Week 8 – Week 12 (regular session)

VI. Incompletes:

A grade of incomplete (I) indicates that a substantial portion of the work in a course has been satisfactorily but not entirely completed by the student as of the end of the semester. The incomplete can be given to a student facing a hardship such that it would be unjust to hold the student to the established time limits for completing the work. To be eligible for the incomplete in a SPEA course, the student's work must be of passing quality, and the student must have completed 75% of the course requirements. Poor performance in a course is not grounds for an incomplete. SPEA follows the campus guidelines, which may be accessed at the Office of the Registrar's website at <http://www.indiana.edu/~registra/Registration/genreginfo.html#inc> in awarding incompletes. Incompletes must be removed within a time period not to exceed one year after the semester in which the student was enrolled in the course. The incomplete will revert to an F if the work is not completed within the allotted timeframe established by the instructor.

VII. Students called to active duty:

SPEA encourages any student who is in the Indiana Military Reserves and is called to active duty to finish his/her coursework if at all possible. Students who cannot complete their courses have the option of withdrawing with 100% fee refund, but this request must be made within one week of being called to active duty. Students who are called to active duty may qualify for an incomplete (provided that all the above criteria have been met). For further information, please see the Office of the Registrar's website at <http://registrar.indiana.edu/Services/reserves.html>