

General Ecology 3650
Lecture syllabus
Fall, 2019

Instructor: Dr. Thomas Anderson, 212 Tucker Hall
 Office hours: Tues 11:00-12:00, Thurs 11:00-12:00, or by appt.
 Email: andersontho@missouri.edu

Class meetings: 106 Lefevere Hall
 Tues, Thurs, 9:30AM – 10:45AM

Lab meetings: 3 Stewart Hall
 Monday, Tuesday, Thursday, 1:00-4:50

Textbook: Ecology, 3rd Edition
 Cain, Bowman, and Hacker; Sinauer Associates, Inc. (2014)

Lecture Schedule

Important announcements will be posted on Canvas –
 you are responsible for checking the website at least once a week!!

Week	Topics	Reading
19 Aug	Introduction Ecosystems & Environment What is Ecology? Climate & Energy Flow	Ch 1 Ch 2:23-39
26 Aug	Ecosystems & Environment Climate (continued) Primary productivity Trophic levels	Ch 2:39-49 Ch 20, Ch 24:533-539 Ch 25:579-584
2 Sept	Ecosystems & Environment Energy flow Nutrient cycling	Ch 21, Ch 22:496-499 Ch 25:571-579
9 Sept	Organisms & Their Environment Biomes and succession	Ch 3, 17
16 Sept	Organisms & Their Environment Adaptation to environments	Ch 4, 5 Ch 8:186-188
24 Sept	Organisms – Evolution & Ecology Life history and evolution	Ch 6
26 Sept	Lecture Exam #1	
30 Sept	Organisms – Evolution & Ecology	Ch 6

	Life history and evolution Organisms & Populations Mating systems Life history analyses	Ch 7
7 Oct	Organisms & Populations Distribution and abundance Growth and regulation	Ch 8, 9
14 Oct	Organisms & Populations Population dynamics Population genetics	Ch 10
21 Oct	Interactions Among Organisms Predation and herbivory Mutualism and commensalism	Ch 12, 14
29 Oct	Interactions Among Organisms Competition	Ch 11
31 Oct	Lecture exam #2	
4 Nov	Interactions Among Organisms Parasitism Community Ecology The nature of communities	Ch 13 Ch 15
11 Nov	Community Ecology & Biodiversity Biogeography Species diversity in communities	Ch 17, 18
18 Nov	Applied Ecology Conservation ecology Landscape ecology & ecosystem management	Ch 22, 23
26 Nov	Thanksgiving Break	
3 Dec	Course review	
5 Dec	Lab final exam (during lecture)	
11 Dec	Final Exam (Lecture Exam # 3) @ 3:00-5:00PM	

Teaching assistants:

Joe Gunn jcg5g9@mail.missouri.edu (Monday)
Austin Lynn amlqb4@mail.missouri.edu (Tuesday)
Arianne Messerman afmxw7@mizzou.edu (Thursday)

Grading System:

<u>Lecture</u>	340 points
Exams (3 @ 100 points)	300 points
Class participation, quizzes, seminars	40 points
<u>Laboratory</u>	260 points
Full lab reports (2 @ 50 points)	100 points
Worksheets and short writeups (6 @ 15 points)	90 points
Participation	20 points
Lab final	50 points

How to succeed in this course:

For lectures:

Read the suggested chapters/pages in the book prior to lectures

- will introduce the topics and minimize unnecessary note-taking during lecture
- will allow you to assimilate the material during lecture and ask questions about concepts or examples you don't understand

Attend lectures regularly

- copies of the lecture slides are posted on Canvas, use them to take notes
- ask questions about concepts you don't understand
- participate in class discussions

Observe due dates for assignments

- this course moves quickly and it's very difficult to catch up once you get behind. **Late assignments will only be accepted up to 5 days after the due date and will accrue a 5% penalty in points per late day.**

For exams:

Review your lecture notes carefully to make sure you understand the concepts

Define any unfamiliar terms you find in the reading and in your lecture notes

Practice the problems on worksheets provided

Online Course Site Access:

You may access the course via <http://courses.missouri.edu>. Under course login, select Canvas and enter your PAW Print. If you have difficulty in logging in to the course or you do not see the course listed, please contact the IAT Services Help Desk at 882-5000.

Online Class Netiquette:

Your instructor and fellow students wish to foster a safe on-line learning environment. All opinions and experiences, no matter how different or controversial they may be perceived, must be respected in the tolerant spirit of academic discourse. You are encouraged to comment, question, or critique an idea but you are not to attack an individual.

Our differences, some of which are outlined in the University's nondiscrimination statement below, will add richness to this learning experience. Please consider that sarcasm and humor can be misconstrued in online interactions and generate unintended disruptions. Working as a

community of learners, we can build a polite and respectful course ambience.

Academic Dishonesty:

Academic honesty is fundamental to the activities and principles of a university. All members of the academic community must be confident that each person's work has been responsibly and honorably acquired, developed, and presented. Any effort to gain an advantage not given to all students is dishonest whether or not the effort is successful. The academic community regards academic dishonesty as an extremely serious matter, with serious consequences that range from probation to expulsion. When in doubt about plagiarism, paraphrasing, quoting, or collaboration, consult the course instructor.

Academic Dishonesty includes but is not necessarily limited to the following:

- Cheating or knowingly assisting another student in committing an act of cheating or other academic dishonesty.
- Plagiarism which includes but is not necessarily limited to submitting examinations, themes, reports, drawings, laboratory notes, or other material as one's own work when such work has been prepared by another person or copied from another person.
- Unauthorized possession of examinations or reserve library materials, or laboratory materials or experiments, or any other similar actions.
- Unauthorized changing of grades or markings on an examination or in an instructor's grade book or such change of any grade report.

Academic Integrity Pledge: Students are expected to adhere to this pledge on all graded work whether or not they are explicitly asked in advance to do so.

"I strive to uphold the University values of respect, responsibility, discovery, and excellence. On my honor, I pledge that I have neither given nor received unauthorized assistance on this work."

The University has specific academic dishonesty administrative procedures. Although policy states that cases of academic dishonesty must be reported to the Office of the Provost for possible action, the instructor may assign a failing grade for the assignment or a failing grade for the course, or may adjust the grade as deemed appropriate. The instructor also may require the student to repeat the assignment or to perform additional assignments. In instances where academic integrity is in question, faculty, staff and students should refer to Article VI of the Faculty Handbook. Article VI is also available in the M-Book. Article VI provides further information regarding the process by which violations are handled and sets forth a standard of excellence in our community.

University of Missouri-Columbia Notice of Nondiscrimination:

The University of Missouri System is an Equal Opportunity/ Affirmative Action institution and is nondiscriminatory relative to race, religion, color, national origin, sex, sexual orientation, age, disability or status as a Vietnam-era veteran. Any person having inquiries concerning the University of Missouri-Columbia's compliance with implementing Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Americans With Disabilities Act of 1990, or other civil rights laws should contact the Assistant Vice Chancellor, Human Resource Services, University of Missouri-Columbia, 130 Heinkel Building, Columbia, Mo. 65211, (573) 882-4256, or the Assistant Secretary for Civil Rights, U.S. Department of Education.

ADA Statement:

If you need accommodations because of a disability, if you have emergency medical information to share with your teaching assistant or instructor, or if you need special arrangements in case the building must be evacuated, please inform us immediately. Please see me privately after class, or at my office.

To request academic accommodations (for example, a notetaker), students must also register with the Office of Disability Services, S5 Memorial Union, 882-4696. It is the campus office responsible for reviewing documentation provided by students requesting academic accommodations, and for accommodations planning in cooperation with students and instructors, as needed and consistent with course requirements. For other MU resources for students with disabilities, click on "Disability Resources" on the MU homepage.