

Mycology - PATH (PBIO) 4200/6200 – 4200L/6200L
Fall 2017, 4 credits

Course Goals: Students will gain an appreciation of the diversity of fungi and a basic understanding of their biology, ecology, genetics, morphology and taxonomy. Groups of organisms traditionally classified with the fungi will also be discussed. Students will also learn how to collect, isolate, culture, and identify fungi.

Instructor: Dr. Marin Talbot Brewer; 706-542-1254; 2309 Miller PS; mtbrewer@uga.edu

Office hours: By appointment; please do not hesitate to contact me to make arrangements

Teaching Assistants: Annakay Abrahams, Annakay.Newell@uga.edu; Hannah Halpern, Hannah.halpern25@uga.edu

Lectures: Tues & Thurs, 11:00AM – 12:15PM, 2102 Miller PS.

Laboratory: Thurs, 2108 Miller PS; 12:30-3:15PM (Section I) or 3:30- 6:15PM (Section II)

Attendance: You are expected to attend lectures and are required to attend all labs.

Technology etiquette: If you need to use a tablet or laptop, please sit in the back row so that it does not distract other students. Please turn off phones and do not text during class.

Text: There is no required text. Reading assignments will be announced and posted on eLC.

Recommended texts:

Aurora, D. 1986. Mushrooms Demystified, 2nd edition.

Bessette, A.E. et al., 2007. Mushrooms of the Southeastern United States.

Webster & Weber. 2007. Introduction to Fungi, 3rd edition.

Alexopoulos, Mims, & Blackwell. 1996. Introductory Mycology, 4th edition.

Grading:

Exam 1	100 points	(20%)
Exam 2	100 points	(20%)
Exam 3 (Final Exam)	100 points	(20%)
Lab notebook and lab participation	50 points	(10%)
Fungal collection	100 points	(20%)
Presentation (grad) or poster (undergrad)	50 points	(10%)
Total	= 500 pts.	(100%)

A = 92% to 100%; A- = 90% to 91%; B+ = 87% to 89%; B = 82% to 86%; B- = 80% to 81%; C+ = 77% to 79%; C = 72% to 76%; C- = 70% to 72%; D = 60% to 69%; F < 60%

Exams (300 points): There will be two exams during the semester (100 points each) and a final exam at the end of the semester (100 points). Exams will include matching, fill in the blank, short answer, and essay questions. There will also be a lab component to every exam. To make up an exam, you must have a legitimate, documented excuse, and make every effort to contact the instructor in advance or you will receive a zero.

Lab notebook and lab participation (50 pts): Each lab will consist of several stations and/or activities. Your observations must be documented and any questions posed in lab must be answered. The notebook will be graded for completeness over Thanksgiving

break. Photographs are acceptable, but must be labeled and organized within the notebook. The lab notebook can consist of paper in a binder, a composition notebook, or anything else that you can keep organized and bound together. Your lab participation points are based on attendance.

Fungal collection (100 pts): A collection of fungi independently collected from the environment, which could include the woods, campus, or your apartment, but not collected from a culture collection, herbarium, another class, the grocery store, your friend, or your research project, will be a major component of the lab. The specimens must be properly preserved or isolated and identified to the genus level. Additional information on the collection will be provided early in the semester.

Presentation/Poster (50 pts): Graduate students will be required to give a 10-minute presentation to the class toward the end of the semester on a topic related to Mycology. Undergrads will be required to present a poster (in groups of two or three) to the class during the poster session at the end of the semester on a topic related to Mycology. Awards will be given for the best presentation and the best poster. Topics for the poster/presentation should be exciting, cutting-edge mycology, not boring and Wikipedia-like essays, and need to be approved by the instructor by Thursday Oct. 6. Additional information on the presentation/poster will be provided later in the semester.

Academic honesty: I expect all students to follow the UGA honor code. Any cheating or other academic dishonesty will be reported to the Office of the Vice President of Instruction for action. The university's academic honesty policy may be found at:

<https://ovpi.uga.edu/sites/default/files/uga-academc-honesty-policy-may-07.pdf>

"I will be academically honest in all of my work and will not tolerate academic dishonesty of others." UGA Student Honor Code

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	Date	Lecture	Lab
Aug	TU 15	Course overview	
	TH 17	Ecology, nutrition	No lab
	TU 22	Classification, systematics	
	TH 24	Basidiomycota	Field trip to Botanical Garden
	TU 29	Basidiomycota continued	
	TH 31	Basidiomycota continued	Basidiomycota I
Sep	TU 05	Ascomycota	
	TH 07	Ascomycota continued	Basidiomycota II
	TU 12	Ascomycota continued	
	TH 14	Exam 1	work on collections
	TU 19	Edible and medicinal fungi	
	TH 21	Asexual fungi	Ascomycota
	TU 26	Mycotoxins	
	TH 28	Zygomycota	asexual fungi collection I due
Oct	TU 03	Chytridiomycota, zoosporic fungi	
	TH 05	Oomycota	Zygomycota, Chytridiomycota, and Oomycota, poster or presentation topic due
	TU 10	Poisonous and hallucinogenic shrooms	
	TH 12	Exam 2	work on collections
	TU 17	Lichens	
	TH 19	Mycorrhizae	mycorrhizae and lichens; barcode project I
	TU 24	Industrial fungi, commercial production	
	TH 26	Slime molds, Myxomycetes	slime molds; barcode project II
	TU 31	Biocontrol	
Nov	TH 02	Medical mycology	barcode project III
	TU 07	Animal pathogens, microsporidia	
	TH 09	Fungal genetics grad presentation abstracts due	work on collections undergrad poster draft due
	TU 14	Presentations	
	TH 16	Presentations	lab notebook due collection II due
	22, 24	Thanksgiving Break, NO CLASS	
	TU 28	Poster session	
	TH 30	Fungi in food & Fungal Feast	no lab, lab closed
Dec	TH 07	Exam 3 (Final Exam, 12PM-3PM)	

The course syllabus is a general plan for the course; deviations are likely and will be announced.