

BIOL 752/852 New England Mushrooms: *a Field & Laboratory Exploration*

Instructor: Dr. Chris Neefus

Time: Monday & Wednesday 9:10-12:00 Spaulding 140 (Monday) and 141 (Wednesday)

Office Hours: Rm 246 Spaulding MW 1:10-2:00 or most other times.

Phone: 862-1990 E-mail: chris.neefus@unh.edu (I may not reply on weekends)

Course Website: <http://chanterelle.unh.edu>

Book: Mushrooms of the Northeastern United States and Eastern Canada, by T. Baroni (available from [Amazon for \\$12.89](#))

Note: Schedule is Tentative and will be finalized before the beginning of classes.

Aug 30	Mon	Course Overview Goals, Approach, and Expectations Books, Field Trips, Equipment, Online Resources What are Mushrooms?
Sep 1	Wed	Overview of Field Methods Observations, notes, photographs, collections, MushroomLog, MushroomObserver <i>Field Trip to College Woods</i>
Sep 6	Mon	<i>Labor Day - No Class - UNH Closed</i>
8	Wed	Mushroom Morphology: Spores, Gills, Stipes, Caps, Other Forms Mushroom Microscopy ID Session for Field Collections
11	Sat	<i>Optional Field Trip 1 - Tamworth NH</i>
13	Mon	<i>Intro to Growing Culinary Mushrooms</i> <i>PDYA Culture Media Prep</i> ID Session for Field Collections
15	Wed	Agaricales: Clades and Major Families <i>Grain Spawn Prep</i> ID Session for Field Collections
18	Sat	<i>Optional Field Trip 2 - Hamilton, Massachusetts</i>
20	Mon	Agaricales: Amanitaceae <i>Grain Spawn Inoculation, Sawdust Block Prep</i> ID Session for Field Collections, Tree Identification
22	Wed	"The Good, The Bad, and the Deadly": Mushroom Toxins <i>Sawdust Block Inoculation</i> Student Presentations (3)
25	Sat	<i>Optional Field Trip 3 - Jaffrey NH</i>
27	Mon	Boletales: Clades and Major Families

		Student Presentations (2)
		ID Session for Field Collections
29	Wed	Student Presentations (2) <i>Field Trip to College Woods</i> ID Session for Field Collections
Oct 2	Sat	<i>Optional Field Trip 4 - Tamworth NH revisited NH Mushroom Company</i>
4	Mon	Mycorrhizae Student Presentations (2) <i>Culinary Demo: Oyster Mushrooms</i>
6	Wed	<i>Field Trip to Sweet Trail, Newmarket NH</i>
9	Sat	<i>Optional Field Trip 5- Location and time tbd</i>
11	Mon	<i>No Class (Mid-semester Break)</i>
13	Wed	<i>Shiitake Log Inoculation</i> <i>Culinary Demo: Shiitake Mushrooms on Toast</i>
16	Sat	<i>Optional Field Trip 6 - Mt Agamenticus, York, Maine</i>
18	Mon	Russulales: Major Families Student Presentations (2-3) ID Session for Field Collections <i>Culinary Demo: Lion's Mane</i>
20	Wed	Polyporales & Thelphorales: Major Families Student Presentations (2-3) ID Session for Field Collections
23	Sat	<i>Optional Field Trip 7 - Location and time tbd</i>
25	Mon	Overview of DNA barcoding Student Presentations (3-4) ID Session for Field Collections
27	Wed	Nutrient Cycling: White Rot, Brown Rot
30	Sat	<i>Optional Field Trip 8 - Location and time tbd</i>
Nov 1	Mon	DNA Extraction & PCR ID Session for Field Collections,
3	Wed	DNA Quantification & Sample Submission
6	Sat	<i>TBD</i>
8	Mon	DNA Sequencing Results & Analysis
10	Wed	Cantharellales: Major Families <i>Culinary Demo: Black Tumpets & Chanterelles</i> Work on Posters/Presentation
15	Mon	<i>Field Trip - College Woods</i>
17	Wed	Auriculariales and Sebacinales: Families ID Session for Field Collections,
22	Mon	Gomphales, Phallales, and Geastrales: Families
24	Wed	<i>Thanksgiving Holiday - No Classes</i>

- 25 Thu Thanksgiving Holiday - No Classes
- 26 Fri Thanksgiving Holiday - No Classes
- 29 Mon Dacrymycetes and Tremellomycetes: Major Orders and Families
Work on Posters/Presentation
- Dec 1 Wed Ascomycota: Major Subdivisions/Classes
Work on Posters/Presentation
- 6 Mon Ascomycota (continued): Major Subdivisions/Classes
- 8 Wed Final Presentations
- 13 Mon Potluck "Banquet"