

VSU BIOL 3500/5500 - Mycology (4 credit hours)

Instructor: Dr. Emily Cantonwine, VSU Office: BC 2031, egcantonwine@valdosta.edu, Phone: 333-5337,

Course Description: Biology of fungi with emphasis on morphology, taxonomy, physiology, and ecology, including the roles of fungi as both beneficial organisms and as causal agents in plant and animal diseases.

Course Objectives (Educational Outcomes): By the end of the semester, students will be able to

- explain how fungi are similar and different from other organisms
- identify fungal groups based on microscopic and macroscopic characteristics
- describe how fungi are adapted to their environments
- explain the importance of fungi to ecosystems and human culture
- conduct laboratory techniques to aid in lichen and fungal observations

Materials:

- ((VSU Only) Nicholas Money. 2002. *Mr. Bloomfield's Orchard*. Oxford Press.
- Optional) Kendrick, W.B. 2001. *The Fifth Kingdom*, 3rd Edition. Focus Publishing/R. Pullins Co.
- Laptop or device to access lecture powerpoints and videos.

Assessments:

Mr. Bloomfield's Orchard Chapter Quizzes: (50 points total) Students will be quizzed over 5 chapters of *Mr. Bloomfield's Orchard*. The quizzes are open note and require proof that each chapter was read and the content comprehended. These quizzes will be conducted over Blazeview. Each quiz is worth 10 points.

Lecture Notes: (25 points total) Students must show me their notes for each of the pre-recorded lectures. Notes from each lecture are worth 5 points each.

Lecture Quizzes: (125 points total) Students will take one quiz for each of the pre-recorded lectures while at WIT. Each quiz is worth 25 points.

Scavenger Hunt Report: (100 points total) Students will be required to record (photograph), describe, and ID at least 50 fungal organisms while in Ireland. Fungal identification will be a group effort, but the project (content and report organization) must be 100% individual work. The project will be an electronic or hard copy report of the fungal collection, and is due at the end of the summer session. More information will be provided in class.

Field Notes: (50 points) Students will be required to write a one-page summary of each mycology-related experience, including the mycological concepts that were learned or explored.

Honor's Option Supplemental Assignments: (50 points) Student will write a book report for *Mr. Bloomfield's Orchard* and participate with the instructors in a discussion of a research article on a topic of interest.

BIOL 5500 Supplemental Assignments: (100 points) Student will present a seminar on a topic of interest to the class, and write a review paper on a topic of interest.

GENERAL RULES

- Students are required to be on time and attend all lectures, labs, and field trips.
- Students are expected to be coherent (awake and functional) during all class activities.
- Students may not engage in any illegal activity.
- Students must follow the buddy system; no one should be out alone without instructor approval.
- Consequences for failing to follow rules may include any of the following: points off, implementation of a curfew, or dismissal from the program. Consequences are at the discretion of the instructor of record.

Academic Integrity: We follow the Academic Honesty Policies and Procedures of our respective Universities. "Academic Integrity/Honesty" means performing all academic work without plagiarism, cheating, lying, tampering, stealing, receiving unauthorized or illegitimate assistance from any other person, or using any source of information that is not common knowledge.

Tentative Schedule – Refer to the Travel Itinerary