

The Minor in Mycology is designed to provide essential knowledge and training for careers where fungi are major players. For example, fungi are important in microbiology/healthcare, agriculture and plant disease management, ecology and forestry, fermentation/brewing and food science. The Minor in Mycology is also valuable to students interested in multiple areas of biology and chemistry research, including natural products discovery and synthetic biology. The Minor in Mycology is open to all students with introductory training in biology.

Students pursuing the Minor in Mycology are required to take Plant Pathology 5040 and 5041 – Science of Fungi: Mycology Lecture and Lab – to develop a foundational understanding of fungal biology, diversity, and ecology. Upon completion of Plant Path 5040 and 5041, students must take one course that deals with a major field of Mycological study from Plant Pathogenic Fungi (Plant Path 5050), Eukaryotic Pathogens, a course encompassing medical mycology (Microbiology 5147), and Food Fermentations (Food Science 5430). Additional courses in plant pathology, microbiology, and food science are available as elective coursework

A minor in Mycology consists of 12-14 credit hours selected as follows:

<b><u>Required Courses (2 courses; 4 hours):</u></b>	<b><u>Credit Hours</u></b>
PLNTPTH 5040: Science of Fungi: Mycology Lecture	3
PLNTPTH 5041: Science of Fungi: Mycology Lab	1
 <u>Select at least one of the following courses (3 credit hours)</u>	
PLNTPTH 5050: Plant Pathogenic Fungi	3
MICROBIO 5147: Eukaryotic Pathogens <sup>2</sup>	3
FDSCTE 5430: Food Fermentations <sup>3</sup>	3
 <u>Electives: Select two to three of the following courses (5-7 credit hours)</u>	
PLNTPTH 2000: Molds, Mushrooms and Mankind	3
MICROBIO 2100: Wild Yeast: Isolation to Fermentation <sup>4</sup>	3
FDSCTE 2410: Brewing Science <sup>4</sup>	2
PLNTPTH 3001: General Plant Pathology Lecture <sup>1</sup>	3
PLNTPTH 3333: Field and Woodland Fungi	2
PLNTPTH 3920: Psychedelic Studies: Neurochemistry, Plants, Fungi, and Society	3
PLNTPTH 4998: Undergraduate Research <sup>5</sup>	1-3
SENR 4998: Undergraduate Research <sup>5</sup>	1-3
MICROBIO 4998(H): Undergraduate Research <sup>5</sup>	1-3
EEOB 4998(H): Undergraduate Research <sup>5</sup>	1-3
EEOB 5798 & EEOB 3193: Tropical Behav. Ecol. & Evol. (with approved mycology focus)	4
PLNTPTH 5050: Plant Pathogenic Fungi (If not taken above)	3
MICROBIO 5147: Eukaryotic Pathogens <sup>2</sup> (If not taken above)	3
FDSCTE 5430: Food Fermentations <sup>3</sup> (If not taken above)	3
 <b>TOTAL credit hours for minor in mycology:</b>	 <b>12-14</b>

<sup>1</sup> requires prerequisite of BIOLOGY 1113

<sup>2</sup> requires prerequisite of MICROBIO 4100 or permission of instructor

<sup>3</sup> required prerequisite of MICROBIO 4000

<sup>4</sup> requires prerequisites of BIOLOGY 1113 & CHEM 1110/1210/1610 or permission of instructor

<sup>5</sup> up to 3 credits in mycology-related research (approved by the coordinator of the minor) may be used toward the minor

### **Restrictions and General Information**

1. Plant Pathology classes taken to fulfill requirements for a Plant Pathology major, or minor in Plant Pathology or Plant Health Management cannot be used towards the minor.
2. A minor should be declared by the time a student accumulates 60 hours.

3. A minimum 2.00 cumulative point-hour ratio is required in the minor course work; and a minimum grade of a C- is required for each course used to complete the minor.
4. A student is permitted to overlap up to 6 credit hours between the GE and the minor.
5. The minor must contain a minimum of 12 credit hours distinct from the major and/or additional minors (i.e. if a minor requires more than 12 credit hours, a student is permitted to overlap those hours beyond 12 with the major or with another minor).
6. The minor must include at least 6 hours of upper-level or upper-division course work (3000 or above).
7. Course work graded Pass/Non-Pass cannot count in the minor, and no more than 3 credit hours of course work graded Satisfactory/Unsatisfactory may count toward the minor.
8. No more than 3 credit hours of xx93 may count toward the minor.
9. A student is permitted to count up to 6 total hours of transfer credit and/or credit by examination.