

**From:** [Smith, Randy](#)  
**To:** [Lewandowski, Monica](#); [Osborne, Jeanne](#)  
**Cc:** [Leite, Fabio](#); [Reed, Katie](#); [Smith, Randy](#); [Duffy, Lisa](#); [Hunt, Ryan](#); [Paul, Pierce](#); [Christy, Ann](#)  
**Subject:** Proposal to revise the UG Minor in Plant Pathology  
**Date:** Sunday, February 25, 2024 9:13:20 AM  
**Attachments:** [image001.png](#)

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Jeanne and Monica:

The proposal from the Department of Plant Pathology to revise the Undergraduate Minor in Mycology was approved by the Council on Academic Affairs at its meeting on February 21, 2024. Thank you for attending the meeting to respond to questions/comments.

No additional level of internal review/approval is necessary. This action will be included in the Council's next [Annual Activities Report](#) to the University Senate (July 2024).

The Office of the University Registrar will work you with any implementation issues.

Please keep a copy of this message for your file on the proposal and I will do the same for the file in the Office of Academic Affairs.

If you have any questions please contact the Chair of the Council, Professor Fábio Leite (.11), or me.

Randy



**W. Randy Smith, Ph.D.**

Vice Provost for Academic Programs

Office of Academic Affairs

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**From:** [Osborne, Jeanne](#)  
**To:** [Smith, Randy](#)  
**Cc:** [Reed, Katie](#); [Violet, Cynthia A.](#); [Meadows, Kendyl](#); [Barker, David](#); [Lewandowski, Monica](#)  
**Subject:** Requesting CAA Approval for revision to the Plant Pathology and Mycology Minors  
**Date:** Monday, January 22, 2024 9:53:28 AM  
**Attachments:** [Plant Pathology Mycology Minor Change 01 2024.pdf](#)  
[image001.png](#)  
[PLNTPTH Minor Proposal submitted 01 2024.docx](#)

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Dear Dr. Smith,

The College of Food, Agricultural, and Environmental Sciences is requesting Council on Academic Affairs approval for a revision to the Undergraduate Plant Pathology and Mycology Minors in the Department of Plant Pathology, as summarized below and outlined in the attached proposals.

**Plant Pathology Minor:** The primary component of the proposal is to provide additional course options in two categories in the minor: 'Select one of the following courses' and 'Electives'. In addition, a course that is not offered, PLNTPTH 4550, Bioterrorism: An Overview, was removed from the electives list.

**Mycology minor:** the proposed change to this minor is to add a new course, PLNTPTH 4321, Managing Biological Invasions for Forest Sustainability (3 cr, GEN Sustainability Theme) to the list of Electives. This minor change may only require sharing as an information item with the CAA; however, since both minors are being updated, it may be easiest to consider them both at the same time.

The overall impact is to provide students with additional course options in the categories that they can choose courses. There will not be an impact on currently enrolled students in these minors as the proposed course updates reflect current offerings and provide additional choices for electives.

These proposals have been approved by the Academic Affairs Committee of the Department of Plant Pathology, and by the CFAES Committee on Academic Affairs. Please let me know if any additional information is needed in support of this request.

Sincerely,

Jeanne



*Jeanne M. Osborne* | *Pronouns: She, Her, Hers*

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*'Unexpected kindness is the most powerful, least costly, and most underrated agent of human change'* (Bob Kerrey)



January 4, 2024

To: College of Food, Agricultural, and Environmental Sciences  
Jeanne Osborne, Associate Dean for Academic Programs

From: Plant Pathology Academic Affairs Committee

Re: Change in **Mycology Minor**: add a new course offering to the minor electives list

The Department of Plant Pathology proposes to add a new course to the list of electives that can be used to complete the **Mycology Minor**: (PLNTPTH 4321) Managing Biological Invasions for Forest Sustainability. This is a new General Education Sustainability Theme course taught by Dr. Enrico Bonello (first offering, Spring 2024). Dr. Jason Slot, Associate Professor and Mycology minor advisor, reviewed the syllabus for the course and has assessed that this course is suitable for the Mycology minor list of electives. This course has substantial mycology content, as 7 out of the 8 pathosystems covered in the course have a fungal component.

(PLNTPTH 4321) Managing Biological Invasions for Forest Sustainability

**Course description:** Explores the causes and consequences of, and management options for, biological invasions of forest environments by pathogens and insect pests that lead to widespread tree mortality. These invasions contribute to ecosystem degradation, with ecological and socio-economic impacts and implications for the sustainability of forest ecosystems, industries, and the beings that depend on them.

For students currently enrolled in the Minor, the proposed change will have no negative impact. Rather, it will expand options to include this General Education Sustainability Theme course.

The proposed change was approved by the Plant Pathology Academic Affairs Committee.

Respectfully submitted,

M. Soledad Benitez Ponce  
Plant Pathology Academic Affairs Committee Chair

cc: Dr. Pierce Paul, Professor and Chair

## CURRENT

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 Man	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: Medical Mycology <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 BIO 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 BIO 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.

## **PROPOSED CLASS ADDITION, PLNTPH 4321, IN RED**

The Mycology Minor 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 Mycology Minor is also valuable to students interested in multiple areas of biology and chemistry research, including natural products discovery and synthetic biology. The Mycology Minor is open to all students with introductory training in biology.

Students pursuing the Mycology Minor 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 (PLNTPH 5050), Eukaryotic Pathogens, a course encompassing medical mycology (MICRBIO 5147), and Food Fermentations (FDSCTE 5430). Additional courses in plant pathology, microbiology, and food science are available as elective coursework.

A Mycology Minor 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>
PLNTPH 5040: Science of Fungi: Mycology Lecture	3
PLNTPH 5041: Science of Fungi: Mycology Lab	1
<b><u>Select at least one of the following courses (3 credit hours)</u></b>	
PLNTPH 5050: Plant Pathogenic Fungi	3
MICRBIO 5147: Eukaryotic Pathogens <sup>2</sup>	3
FDSCTE 5430: Food Fermentations <sup>3</sup>	3
<b><u>Electives: Select two to three of the following courses (5-7 credit hours)</u></b>	
PLNTPH 2000: Molds, Mushrooms and Man	3
MICRBIO 2100: Wild Yeast: Isolation to Fermentation <sup>4</sup>	3
FDSCTE 2410: Brewing Science <sup>4</sup>	2
PLNTPH 3001: General Plant Pathology Lecture <sup>1</sup>	3
PLNTPH 3333: Field and Woodland Fungi	2
PLNTPH 3920: Psychedelic Studies: Neurochemistry, Plants, Fungi, and Society	3
<b>PLNTPH 4321: Managing Biological Invasions for Forest Sustainability</b>	<b>3</b>
PLNTPH 4998: Undergraduate Research <sup>5</sup>	1-3
SENR 4998: Undergraduate Research <sup>5</sup>	1-3
MICRBIO 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
PLNTPH 5050: Plant Pathogenic Fungi (If not taken above)	3
MICRBIO 5147: Medical Mycology <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 the Mycology Minor</b>	<b>12-14</b>

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

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

<sup>3</sup> required prerequisite of MICRBIO 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 or Plant Health Management major or Plant Pathology minor cannot be used towards the Mycology 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.