



UNIVERSITY OF
GEORGIA

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University Council

October 6, 2017

UNIVERSITY CURRICULUM COMMITTEE – 2017-2018

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Graduate Student Representative – Ms. Johnita Daniel

Dear Colleagues:

The attached proposal from the Franklin College of Arts and Sciences for a new Area of Emphasis in Plants and Microbes under the major in Plant Biology (B.S.) will be an agenda item for the October 13, 2017, Full University Curriculum Committee meeting.

Sincerely,

Alison F. Alexander, Chair
University Curriculum Committee

cc: Provost Pamela S. Whitten
Dr. Rahul Shrivastav

PROPOSAL FOR AREA OF EMPHASIS

1. **School/College:** Franklin College of Arts and Sciences
2. **Department/Division:** Plant Biology
3. **Major:** Plant Biology (B.S.)

If major has more than one area of emphasis, submit all areas of emphasis under one major together. A course may appear in more than one area of emphasis, but each area of emphasis should have a distinct focus.

4. **Major Requirements:** Attach a list of requirements for the major. Undergraduate programs may attach a copy of the major requirements from the online bulletin. Graduate programs may provide a list of general requirements for the major.

See Attached.

5. **Area of Emphasis Title (as it will appear in the *Bulletin*):** Plants and Microbes
6. **Proposed starting date:** Spring 2018
7. **Area of Emphasis Description:**
Include prefixes, numbers and titles of required courses, number of credit hours required; residency requirements (if any); and grade requirements (if any). Graduate Areas of Emphasis may refer to groups of courses if necessary.

Area of Emphasis: Plants and Microbes (14-16 hours)

PATH 3530-3530L, Introductory Plant Pathology (3 hours)
PATH 4150, Plant Pathology Undergraduate Seminar (1 hour)

Choose one course from the following:

PATH(PBIO) 4200/6200-4200L/6200L, Mycology (4 hours)
MIBO 3500, Introductory Microbiology (3 hours)
MIBO 3500E, Introductory Microbiology (3 hours)

Choose one course from the following:

CRSS(MIBO) 4610/6610-4610L/6610L, Soil Microbiology (3 hours)
PBIO 3650-3650L, Plant Ecology (4 hours)
PBIO 3660L, Plant Biology Intensive Laboratory (4 hours)

Choose one course from the following:

PBIO 4940, Internship in Plant Biology (3-4 hours)
PBIO 4960, Independent Research in Plant Biology (4 hours)
PBIO 4960H, Independent Research in Plant Biology (Honors) (4 hours)

Plant Biology (B.S.)

Required Courses (32-34 hours)

Required Core Courses (18 hours)

([BIOL 1108](#), [BIOL 1108L](#)) or ([BIOL 2108H](#), [BIOL 2108L](#)) or ([PBIO 1220](#), [PBIO 1220L](#))

[GENE 3000-3000D](#)

[GENE 3200-3200D](#)

[HORT\(CRSS\) 4430/6430](#) or [HORT\(CRSS\) 4430E/6430E](#)

[STAT 2000](#) or [STAT 2100H](#) or [BIOS 2010-2010L](#)

Select an Area of Emphasis

Area of Emphasis: Plant Ecology and Environment (14-16 hours)

[PBIO 3650-3650L](#)

[PBIO 4650/6650-4650L/6650L](#)

Choose one course from the following:

[BIOS 3000](#)

[GEOG 4370/6370-4370L/6370L](#) or [GEOG 4370E/6370E](#)

[HORT 4095/6095](#) or [HORT 4095S/6095S](#)

[PBIO 3660L](#)

Choose one course from the following:

[ANTH\(BIOL\)\(ECOL\)\(EETH\)\(ENTO\)\(FANR\)\(GEOL\)\(PATH\)\(PBIO\) 4261](#)

[PBIO 4940](#)

[PBIO 4960](#) (4 hours)

[PBIO 4960H](#)

Area of Emphasis: Plant Biotechnology and Bioinformatics (14-15 hours)

[BCMB 3100](#) or [BCMB 3100E](#)

[BTEC\(BCMB\)\(PBIO\) 4000L](#) or [PBIO 3660L](#)

[PBIO\(BINF\) 4550/6550](#)

Choose one course from the following:

[PBIO 4940](#)

[PBIO 4960](#) (4 hours)

[PBIO 4960H](#)

Area of Emphasis: Plants and Microbes (14-16 hours)

[PATH 3530-3530L](#), Introductory Plant Pathology (3 hours)

[PATH 4150](#), Plant Pathology Undergraduate Seminar (1 hour)

Choose one course from the following:

[PATH\(PBIO\)4200/6200-4200L/6200L](#), Mycology (4 hours)

[MIBO 3500](#), Introductory Microbiology (3 hours)

[MIBO 3500E](#), Introductory Microbiology (3 hours)

Choose one course from the following:

[CRSS\(MIBO\) 4610/6610-4610L/6610L](#), Soil Microbiology (3 hours)

[PBIO 3650-3650L](#), Plant Ecology (4 hours)

[PBIO 3660L](#), Plant Biology Intensive Laboratory (4 hours)

Choose one course from the following:

[PBIO 4940](#), Internship in Plant Biology (3-4 hours)

[PBIO 4960](#), Independent Research in Plant Biology (4 hours)

[PBIO 4960H](#), Independent Research in Plant Biology (Honors) (4 hours)

Major Electives (9-12 hours)

In consultation with the department adviser, choose three of the following courses not used elsewhere in the Major:

ANTH(BIOL)(ECOL)(EETH)(ENTO)(FANR)(GEOL)(PATH)(PBIO) 4261

ANTH(PBIO) 4300/6300-4300L/6300L

BCMB 3100 or BCMB 3100E

BCMB 3600

BIOS 3000

BTEC(BCMB)(PBIO) 4000L

CBIO 3400

CBIO(PBIO) 4600/6600 and CBIO(PBIO) 4600L/6600L

CRSS(FANR) 3060 and CRSS(FANR) 3060L

CRSS 4450/6450

CRSS(HORT)(ECOL) 4590/6590 and CRSS(HORT) 4590L/6590L

(CRSS 4600/6600 or CRSS 4600E/6600E) and CRSS 4600L/6600L

CRSS(MIBO) 4610/6610-4610L/6610L

ECOL 3500-3500L or ECOL 3505H-3505L

ECOL 4000/6000

ECOL 4500/6500

FANR 4350/6350

GEOG(PBIO) 4220/6220

GEOG(PBIO) 4240/6240

GEOG 4370/6370-4370L/6370L or GEOG 4370E/6370E

HORT(ANTH)(PBIO) 3440 or HORT(ANTH)(PBIO) 3440E

HORT 4095/6095 or HORT 4095S/6095S

HORT(CRSS) 4440/6440-4440L/6440L

PATH(ANTH)(PBIO) 3010

PATH 3530-3530L

PATH(PBIO) 4200/6200-4200L/6200L

PBGG(CRSS)(HORT) 4140/6140

PBIO 3270

PBIO 3400

PBIO 3600

PBIO 3650-3650L

PBIO 3660L

PBIO(CRSS) 4500/6500

PBIO(GENE)(PATH)(BINF) 4510/6510

PBIO(BINF) 4550/6550

PBIO 4650/6650-4650L/6650L

PBIO(ECOL) 4750/6750

PBIO 4940

PBIO 4960 (4 hours)

PBIO 4960H

PBIO 4970H

WASR(FORS) 4110/6110-4110L/6110L

WASR 4400-4400L

General Electives (14-19 hours)

(Refer to College-wide requirements when selecting general electives.)

Upper Division (0-5 hours)

Any level (21 hours)

(This total does not include the 1-hour P.E. requirement)

Approvals on File

Proposal: Area of Emphasis in Plants and Microbes under the major in Plant Pathology (B.S.)

Department: Plant Biology

College: Franklin College of Arts and Sciences

Proposed Effective Term: Spring 2018

Department:

- Plant Biology Department Head, Dr. Lisa Donovan, 9/1/2017

School/College:

- Franklin College of Arts and Sciences Associate Dean, Dr. Jean Martin-Williams, 9/1/2017