

Cover Sheet: Request 13906

Creation of Pathogenesis minor

Info

Process	Minor New/Close Ugrad
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Kelly Rice kcrice@ufl.edu
Created	5/8/2019 1:45:14 PM
Updated	9/11/2019 2:37:53 PM
Description of request	The Department of Microbiology and Cell Science would like to create an undergraduate minor in Pathogenesis, designed provide a strong foundation in the field of microbial pathogenesis, with an emphasis on human infectious disease. This will be provided by academic coursework covering fundamental and advanced aspects of microbial pathogenesis from both the host and pathogen perspective.

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	CALS - Microbiology and Cell Science 514910000	Eric Triplett		6/6/2019
Catalog copy for Undergraduate Pathogenesis minor.docx					5/8/2019
PLP course confirmation.pdf					5/8/2019
SWS course confirmation.pdf					5/8/2019
College	Recycled	CALS - College of Agricultural and Life Sciences	Joel H Brendemuhl	Recycled per department chair request.	6/9/2019
No document changes					
Department	Approved	CALS - Microbiology and Cell Science 514910000	Eric Triplett		6/11/2019
No document changes					
College	Approved	CALS - College of Agricultural and Life Sciences	Joel H Brendemuhl	Approved by CALS CC on 8/23/19.	9/11/2019
No document changes					
AP for Undergraduate Affairs Notified	Notified	PV - Associate Provost for Undergraduate Affairs			9/11/2019
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			9/11/2019
No document changes					
Office of the Registrar					
No document changes					
Student Academic Support System					
No document changes					
Catalog					

Step	Status	Group	User	Comment	Updated
No document changes					
College Notified					
No document changes					

Minor|New for request 13906

Info

Request: Creation of Pathogenesis minor

Description of request: The Department of Microbiology and Cell Science would like to create an undergraduate minor in Pathogenesis, designed provide a strong foundation in the field of microbial pathogenesis, with an emphasis on human infectious disease. This will be provided by academic coursework covering fundamental and advanced aspects of microbial pathogenesis from both the host and pathogen perspective.

Submitter: Kelly Rice kcrice@ufl.edu

Created: 12/1/2018 9:54:58 PM

Form version: 1

Responses

Existing Degree Program Name Microbiology and Cell Science

CIP Code 26.0503

Existing Minor(s) Bioinformatics minor

Proposed Minor Name Pathogenesis

Proposed Transcript Title (Maximum 50 characters) Pathogenesis

Code PAT

Credits 12

Number of Students 100

Effective Term Fall

Effective Year 2019

Percentage of Credits Available Fully Online 50-99%

Percentage of Credits Available Off-Campus <25%

Rationale and Place in Curriculum Rationale: This minor will provide a strong foundation for undergraduate students in the field of microbial pathogenesis, with an emphasis on human infectious disease. This will be provided by academic coursework covering fundamental and advanced aspects of microbial pathogenesis from both the host and pathogen perspective. Students looking to pursue graduate studies in host-pathogen research or entrance into professional human health (dental, medical, pharmacy) or veterinary schools would benefit from this proposed Pathogenesis minor.

Overlap: There is no overlap with the bioinformatics minor offered by our department. In perusing the 2018-2019 UF undergraduate catalogue list of minors (<https://catalog.ufl.edu/UGRD/programs/>), there is no overlap with minors offered by other degree programs at the university. Specifically, we have reviewed the descriptions and course requirements for the undergraduate minors in Health Promotion (https://catalog.ufl.edu/UGRD/colleges-schools/UGHHU/HEP_UMN/), Health Science (https://catalog.ufl.edu/UGRD/colleges-schools/UGPBH/HES_UMN/), and Public Health (https://catalog.ufl.edu/UGRD/colleges-schools/UGPBH/PBH_UMN/) and found no overlap with our proposed Pathogenesis minor. Additionally, we have reviewed courses and curriculum associated with the following departments and/or undergraduate majors, and no overlap appears to exist with undergraduate minors offered by these programs:

College of Medicine, Dept. Medical Genetics and Microbiology –only courses at graduate level and for first yr medical school; <http://mgm.ufl.edu/academics/mgm-affiliated-graduate-courses/>

College of Medicine, Dept. Biochemistry and Molecular Biology – no overlap

<https://biochem.med.ufl.edu/academics/undergraduate-courses/>

College of Medicine: Dept. Pathology, Immunology, and Laboratory Medicine – only graduate and medical school courses: <https://pathology.ufl.edu/education/>

Biology Dept (CALS and CLAS undergraduate majors) – no apparent overlap with current minors/concentrations

<https://botany.biology.ufl.edu/courses/undergrad/>

<https://biology.ufl.edu/undergraduates/approvedcourses/>

College of Dentistry, Dept. Oral Biology – all graduate or dental school courses -

<https://dental.ufl.edu/education/advanced-graduate-education-programs/curriculum/>

Impacts on Other Programs We have permission from respective department chairs to include the following courses outside our major in the list of elective courses for the Pathogenesis minor (please see attached email correspondence):

*indicates offered online

Course Number	Course Name	Department	Estimated enrollment from Pathogenesis minor per semester
PLP 4242C	Bacterial Plant Pathogens	Plant Pathology	10
PLP 4260C	Introduction to Plant Pathogenic Fungi	Plant Pathology	10
PLP 4222C	Viral Pathogens of Plants	Plant Pathology	10
*SWS 4307	Ecology of Waterborne Pathogens	Soil and Water Science	30-50

DRAFT Catalog copy for Undergraduate Pathogenesis minor

Minor

Pathogenesis

This minor provides a strong foundation in the field of microbial pathogenesis, with an emphasis on human infectious disease. This is provided by academic coursework covering fundamental and advanced aspects of microbial pathogenesis from both the host and pathogen perspective.

About this minor:

College: Agricultural and Life Sciences
Credits: 12, completed with minimum grades of C
Contact: Your major’s academic advisor

Overview:

This minor is open to all students who have a science background and who meet course prerequisites.

It is particularly appropriate for students majoring in animal sciences, biology, microbiology and cell science, plant pathology, public health, and zoology, and for any student interested in professional programs in dentistry, medicine, pharmacy, and veterinary medicine.

There are 9 required course credits, consisting of three 3-credit courses. One additional approved elective course (3 credits) must also be taken.

Overlap allowed with MCY or MCB major

Microbiology and cell science majors should meet with their academic advisors before applying to this minor to plan a program of study. Students must complete a minimum of six credits of coursework exclusive to the minor that cannot count toward the major(s) or other minors.

To be eligible for many upper-level botany courses , students must have completed:

- MCB 3023 Principles of Microbiology
- MCB 3023L Principles of Microbiology Laboratory

Required Courses (select 9 credits, *indicates can be taken online):

- *MCB 4203 Bacterial Pathogens (3 credits) (Fall only)
- *MCB 4503 General Virology (3 credits) (Spring only)
- *MCB 4934 Antimicrobial Resistance (3 credits) (Spring only)
- *MCB 4422 Probiotics (3 credits) (Spring only)
- *PCB 4233 Immunology (3 credits) (Spring only)
- *ZOO 4232 Human Parasitology (3 credits) (Fall only)

Approved Elective Course List (select 1 course from the list below; *indicates can be taken online)

- Please note: Any of the required 3-credit courses listed above can be taken to satisfy the minor elective if not already taken as a required course
- PLP 4242C Bacterial Plant Pathogens (3 Credits) (Spring only)
 - PLP 4260C Introduction to Plant Pathogenic Fungi (3 credits) (Spring only)
 - PLP 4222C Viral Pathogens of Plants (3 credits) (Summer only)

*SWS 4307 Ecology of Waterborne Pathogens (3 Credits) (Spring only)

Re: Microbiology and Cell Science Pathogenesis minor

Loria,Rosemary

Fri 2/22/2019 3:29 PM

To: Rice, Kelly C <kcrice@ad.ufl.edu>; Oli, Monika <moli@ufl.edu>;

Cc: Jones, Jeffrey B <jbjones@ufl.edu>; Rollins, Jeffrey A <rollinsj@ufl.edu>; Polston, Jane E <jep@ufl.edu>; Ulloa, Jessica Laura <julloa@ufl.edu>;

Hi Kelly and Monika,

Thank you for being in touch about your new minor in pathogenesis! I suspect that this will be a winner. We would be pleased to have you include our pathogen courses as electives.

Best,
Rose

Rosemary Loria
Professor and Chair
Department of Plant Pathology
IFAS, University of Florida
Gainesville, FL
(352) 273-4634
RLoria@UFL.edu
<http://plantpath.ifas.ufl.edu/>

On Feb 22, 2019, at 9:54 AM, Rice, Kelly C <kcrice@ad.ufl.edu> wrote:

Dear Dr. Loria,

The Department of Microbiology and Cell Science is developing an undergraduate Pathogenesis minor, and we would like your permission to include your department's courses PLP 4242C (Bacterial Plant Pathogens), PLP 4260C (Introduction to Plant Pathogenic Fungi), and PLP 4222C (Viral Pathogens of Plants) as part of the list of electives that students could take as part of this minor. We estimate that no more than 10 students would seek registration in each course each semester it is taught.

Thank-you in advance for considering this request, and please let either of us know if you have any questions or would like more details about the Pathogenesis minor. We are also happy to meet with you and/or the course instructors to discuss this request.

Best Regards,
Kelly Rice,
Associate Professor, Microbiology and Cell Science
kcrice@ufl.edu

Monika Oli
Undergraduate Coordinator, Microbiology and Cell Science

moli@ufl.edu

Kelly C. Rice, PhD.
Associate Professor
Dept. of Microbiology and Cell Science, IFAS
University of Florida
Rm. 1147, Bldg. 981 Museum Rd.
PO BOX 110700
Gainesville, FL 32611-0700
352-392-1192 (office)
352-392-7797 (lab)
kcrice@ufl.edu

RE: Microbiology and Cell Science Pathogenesis minor

Whiles, Matthew R

Fri 3/8/2019 2:47 PM

To: Rice, Kelly C <kcrice@ad.ufl.edu>;

Hey Kelly –

This is fine.

Matt R. Whiles
Chair and Professor, Soil and Water Sciences Department
Past President, Society for Freshwater Science

2181 McCarty Hall A
PO Box 110290
University of Florida
Gainesville, FL 32611-0290

Phone: (352) 294 3161
Email: mwhiles@ufl.edu

From: Rice, Kelly C <kcrice@ad.ufl.edu>
Sent: Friday, February 22, 2019 10:00 AM
To: Whiles, Matthew R <mwhiles@ufl.edu>
Subject: Microbiology and Cell Science Pathogenesis minor

Dear Dr. Whiles,

The Department of Microbiology and Cell Science is developing an undergraduate Pathogenesis minor, and we would like your permission to include your department's course SWS 4307 Ecology of Waterborne Pathogens as part of the list of electives that students could take as part of this minor. We estimate that 30-50 students would seek registration in this course each semester it is taught.

Thank-you in advance for considering this request, and please let either of us know if you have any questions or would like more details about the Pathogenesis minor. We are also happy to meet with you and/or the course instructor to discuss this request.

Best Regards,

Kelly Rice,

Associate Professor, Microbiology and Cell Science

kcrice@ufl.edu

Monika Oli

Undergraduate Coordinator, Microbiology and Cell Science

moli@ufl.edu

Kelly C. Rice, PhD.
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