ILLINOIS
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Proposal to the Senate Educational Policy Committee

PROPOSAL TITLE: Renaming of the Integrated Pest Management concentration leading to the Bachelor of Science in the Department of Crop Sciences in the College of Agricultural, Consumer and Environmental Sciences.

SPONSOR: Frederic L. Kolb, Cavanah Professor of Plant Breeding and Genetics, Crop Sciences Teaching Coordinator, 333-9485, f-kolb@illinois.edu

COLLEGE CONTACT: Soo-Yeun Lee, Assissant Dean, Academic Programs, 333-3380, soolee@illinois.edu

BRIEF DESCRIPTION:

- Rename Integrated Pest Management to Plant Protection
- Addition of PLPA 406- Phytobacteriology to course options
- Changing ACES prescribed and elective hours to 35 to standardize across all concentrations

JUSTIFICATION: The Department of Crop Sciences proposes to change the name of the Integrated Pest Management concentration to Plant Protection. This change is proposed to make the name more descriptive of the concentration content and to better attract students to this concentration. Plant protection is currently a title that resonates with students, and there is increasing interest in the crop sciences industry in students with a background in plant protection. The addition of PLPA 406 increases the course choices students that are interested in pathology have; the PLPA rubric is part of the Crop Sciences Department. The change in ACES hours is part of an effort to standardize that requirement across all concentrations within the major.

BUDGETARY AND STAFF IMPLICATIONS: *(Please respond to each of the following questions. Place your response right after each item.* ***See Appendix A for questions required of new degree program proposals as well additional notes regarding budgetary and staff implications.)***

Additional staff and dollars needed

The proposed revisions do not create a need for additional resources; however, in order for the department to maintain this program into the future there is a need to commit to current staffing levels. As senior faculty members who are heavily involved in teaching classes in this curriculum retire over the next few years, strategic decisions will need to

be made about hiring new faculty members or Academic Professionals to assume these teaching responsibilities.

Internal reallocations (e.g., change in class size, teaching loads, student-faculty ratio, etc.)

Our intent is that the revision of this concentration will enhance and update the program and that enrollment in the concentration will increase. Currently, a number of the classes in the concentration have small enrollments so additional students populating these classes will be beneficial. There is capacity available, and the faculty members in the plant protection area are willing to teach classes with larger enrollments.

Effect on course enrollment in other units and explanations of discussions with representatives of those departments

While we hope to attract more students to this concentration a realistic increase is probably 50 %. It is not anticipated that an additional 5-15 students per year in this concentration will impact course enrollments in classes outside of the Crop Sciences Department.

Impact on the University Library

No impact is expected.

Impact on computer use, laboratory use, equipment, etc.

No impact is expected on computer labs. Some labs within Crop Sciences may have larger enrollments, but as indicated there is capacity available at this time. If necessary, additional lab sections will be added to courses as required to meet demand.

DESIRED EFFECTIVE DATE: We would like to implement these revisions as soon as possible, but we understand that they must be approved at a number of levels. Ideally, we would like to have the effective date be Fall semester of 2015. Ideally, approvals will be completed in time to admit students into the revised concentration in Fall 2015.

STATEMENT FOR PROGRAMS OF STUDY CATALOG: The Plant Protection Concentration provides a broad selection of courses in crops, soils, plant diseases, insects and weeds, and physical sciences. Students learn how to protect plants from the effects of diseases, insects, and weeds. This concentration is designed to prepare students for careers in crop consulting, integrated pest management, and agribusiness management and merchandising, or for entrance into a graduate program.

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Senate Educational Policy Committee
Proposal Check Sheet

PROPOSAL TITLE : Renaming of the Integrated Pest Management concentration leading to the Bachelor of Science in the Department of Crop Sciences in the College of Agricultural, Consumer and Environmental Sciences.

PROPOSAL TYPE (Please select all that apply below)**:**

A. ☒ **Program and degree proposals**

1. This proposal is for a graduate program or degree

☐ Yes ☒ No

Degree proposal (e.g. B.S., M.A. or Ph.D.)

☐ New degree — please name the new degree: _____

☒ Revision of an existing degree — please name the existing degree to be revised: Bachelor of Science in Crop Sciences

Major proposal (disciplinary focus, e.g., Mathematics)

☐ New major — please name the new major: _____

☒ Revision of an existing major — please name the existing major to be revised: Crop Sciences

Concentration proposal (e.g. Financial Planning)

☐ New concentration — please name the new concentration: _____

☒ Revision of an existing concentration — please name the existing concentration to be revised: Integrated Pest Management

Minor proposal (e.g. Cinema Studies)

☐ New minor — please name the new minor: _____

☐ Revision of an existing minor — please name the existing minor to be revised: _____

☒ Proposal for renaming an existing degree, major, concentration, or minor

☐ degree ☐ major ☒ concentration ☐ minor

Please provide the current name: Integrated Pest Management

Please provide the proposed new name: Plant Protection

☐ Proposal for terminating an existing degree, major, concentration, or minor

Please name the existing degree, major, concentration, or minor: _____

☐ Proposal for a multi-institutional degree between Illinois (UIUC) and a foreign institution

Please name the existing Illinois degree or program: _____

Please name the partnering institution: _____

☐ **Proposal for renaming existing academic units** (college, school, department, or program)

Please provide the unit's current name: _____

Please provide the unit's proposed new name: _____

☐ **Proposal for reorganizing existing units** (colleges, schools, departments, or programs)

☐ Change in status of an existing and approved unit (e.g. change from a program to department) — please indicate current unit name including status: _____

☐ Transfer an existing unit

Please provide the current unit's name and home: _____

Please provide the new home for the unit: _____

☐ Merge two or more existing units (e.g., merge department A with department B)

Please provide the name and college of unit one to be merged: _____

Please provide the name and college of unit two to be merged: _____

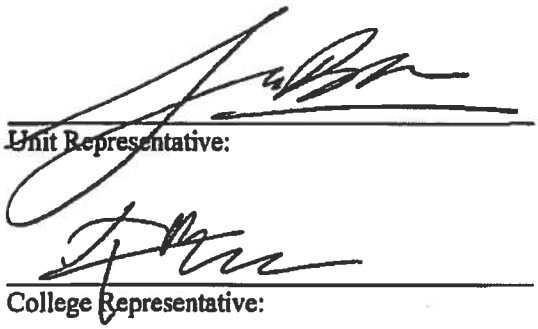
☐ Terminate an existing unit — please provide the current unit's name and status: _____

☐ **Other educational policy proposals** (e.g., academic calendar, grading policies, etc.)

Please indicate the nature of the proposal: _____

CLEARANCES: *(Clearances should include signatures and dates of approval.* ***These signatures must appear on a separate sheet.*** *If multiple departments or colleges are sponsoring the proposal, please add the appropriate signature lines below.)*

Signatures:



Unit Representative: 2/10/2015 Date:

College Representative: 2/10/15 Date:

Graduate College Representative: Date:

Council on Teacher Education Representative: Date:

Appendix A:
(Budgetary and Staff Implications)
Appendix B:

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

University Library
Office of Dean of Libraries
and University Librarian
230 Main Library, MC-522
1408 West Gregory Drive
Urbana, IL 61801

December 19, 2014

Frederic L. Kolb
Cavanah Professor of Plant Breeding and Genetics
Crop Sciences Teaching Coordinator
AE-120 Turner Hall
1102 S Goodwin
M/C 046

Dear Dr. Kolb:

Thank you for giving the University Library the opportunity to review the Department of Crop Science's proposal to the Senate Committee on Educational Policy. Per the proposal sent to the University Library, the department is recommending the elimination of the Horticulture major and the establishment of a concentration in Horticultural Food Systems leading to the Bachelor of Science. Additionally, the proposal recommends the revision of two concentrations (Crop Agribusiness and Plant Biotechnology and Molecular Biology) and the revision of the Horticulture minor in the Department of Crop Sciences in the College of Agricultural, Consumer and Environmental Sciences.

Based upon a review of the draft proposal that we received from you on December 18, 2014, it is our belief that there will be no significant impact on our operations or collections.

If additional services or materials are required as the program develops, we will be happy to discuss those needs as they emerge.

Sincerely,

John P. Wilkin
Juanita J. and Robert E. Simpson
Dean of Libraries and University Librarian

c: Thomas Teper
Robert "Pat" Allen

telephone 217-333-0790 • *fax* 217-244-4358

From: Allen, Robert Stanton
Sent: Tuesday, December 16, 2014 4:27 PM
To: Kolb, Frederic L; Teper, Thomas H
Cc: Ward, Megan Marie
Subject: RE: Crop Sciences curriculum changes

Hi Fred.

I have looked over the proposed changes and no impact on the ACES Library is anticipated as a result of the proposed changes to the curriculum in the Department of Crop Sciences.

I am also copying our Associate Dean of Libraries & Associate University Librarian for Collections and Technical Services, Tom Teper, as he typically deals with these changes eventually.

Robert S. (Pat) Allen
Associate Professor of Library Administration Agricultural, Consumer, and Environmental Sciences (ACES) Librarian

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Integrated Pest Management Concentration - Current

The integrated pest management concentration provides a broad selection of courses in crops, soils, plant diseases, insects and weeds, and the physical sciences. Students learn how to protect plants from the effects of diseases, insects, and weeds. This concentration is designed to prepare students for careers in crop consulting, integrated pest management, and agribusiness management and merchandising, or for entrance into a graduate program.

Natural Sciences and Technology		
CHEM 102 & CHEM 103	General Chemistry I and General Chemistry Lab I	4
CHEM 104 & CHEM 105	General Chemistry II and General Chemistry Lab II	4
CHEM 232	Elementary Organic Chemistry I	3 OR 4
or CPSC 382	Organic Chem of Biol Processes	
IB 103	Introduction to Plant Biology	4
Select one of the following:		4-5
MCB 100 & MCB 101	Introductory Microbiology and Intro Microbiology Lab	
IB 104	Animal Biology	
Integrated Pest Management Concentration Required		
CPSC 112	Introduction to Crop Sciences	4
CPSC 226	Introduction to Weed Science	3
CPSC 270	Applied Entomology	3
CPSC 352	Plant Genetics	3-4
or CPSC 484	Plant Physiology	
CPSC 498	Crop Sci Professional Develpmt	1
NRES 201	Introductory Soils	4
NRES 488	Soil Fertility and Fertilizers	3
PLPA 204	Introductory Plant Pathology	3
Select one of the following:		3-4

Plant Protection Concentration Proposed

The integrated pest management concentration provides a broad selection of courses in crops, soils, plant diseases, insects and weeds, and the physical sciences. Students learn how to protect plants from the effects of diseases, insects, and weeds. This concentration is designed to prepare students for careers in crop consulting, integrated pest management, and agribusiness management and merchandising, or for entrance into a graduate program.

Natural Sciences and Technology Required		**19-21**
CHEM 102 & CHEM 103	General Chemistry I and General Chemistry Lab I	4
CHEM 104 & CHEM 105	General Chemistry II and General Chemistry Lab II	4
CHEM 232	Elementary Organic Chemistry I	3 OR 4
or CPSC 382	Organic Chem of Biol Processes	
IB 103	Introduction to Plant Biology	4
Select one of the following:		4-5
MCB 100 & MCB 101	Introductory Microbiology and Intro Microbiology Lab	
IB 104	Animal Biology	
Plant Protection Concentration Required		**42-44**
CPSC 112	Introduction to Crop Sciences	4
CPSC 226	Introduction to Weed Science	3
CPSC 270	Applied Entomology	3
CPSC 352	Plant Genetics	3-4
or CPSC 484	Plant Physiology	
CPSC 498	Crop Sci Professional Develpmt	1
NRES 201	Introductory Soils	4
NRES 488	Soil Fertility and Fertilizers	3
PLPA 204	Introductory Plant Pathology	3
Select one of the following:		3-4

ANSC 100	Intro to Animal Sciences	
HORT 100	Introduction to Horticulture	
FSHN 101	Intro Food Science & Nutrition	
NRES 102	Introduction to NRES	
TSM 100	Technical Systems in Agr	
Select one of the following:		3
CPSC 418	Crop Growth and Management	
HORT 361	Small Fruits and Viticulture	
HORT 362	Tree Fruit Production	
Select 12 hours from the following:		12
CPSC 426	Weed Mgt in Agronomic Crops	
CPSC 431	Plants and Global Change	
CPSC 473	Mgmt of Field Crop Insects	
CPSC 475	Insect Pathology	
IB 444	Insect Ecology	
IB 468	Insect Classification and Evol	
IB 482	Insect Pest Management	
PLPA 401	Plant Pathogenic Fungi	
PLPA 402	Phytoparasitic Nematodes	
PLPA 404	Plant Virology	
PLPA 407	Diseases of Field Crops	
TSM 465	Chemical Applications Systems	
Total ACES prescribed and elective courses must total 35 hours, of which 20 must be completed in residence.		35

ANSC 100	Intro to Animal Sciences	
HORT 100	Introduction to Horticulture	
FSHN 101	Intro Food Science & Nutrition	
NRES 102	Introduction to NRES	
TSM 100	Technical Systems in Agr	
Select one of the following:		3
CPSC 418	Crop Growth and Management	
HORT 361	Small Fruits and Viticulture	
HORT 362	Tree Fruit Production	
Select 12 hours from the following:		12
CPSC 426	Weed Mgt in Agronomic Crops	
CPSC 431	Plants and Global Change	
CPSC 473	Mgmt of Field Crop Insects	
CPSC 475	Insect Pathology	
IB 444	Insect Ecology	
IB 468	Insect Classification and Evol	
IB 482	Insect Pest Management	
PLPA 401	Plant Pathogenic Fungi	
PLPA 402	Phytoparasitic Nematodes	
PLPA 404	Plant Virology	
PLPA 406	Phytobacteriology	
PLPA 407	Diseases of Field Crops	
TSM 465	Chemical Applications Systems	
Total ACES prescribed and elective courses must total 35 hours, of which 20 must be completed in residence.		

TOTALS

Prescribed Courses Including Campus General Education	37-41
Total Required Concentration Hours	61-65
Open Electives	20-28
Total Hours	126

Crop Sciences

For the Degree of Bachelor of Science in Crop Sciences

Prescribed Courses including Campus General Education

Composition I and Speech		
RHET 105 & CMN 101	Writing and Research and Public Speaking (or equivalent - see College Composition I requirement)	6-7
Advanced Composition		
Select from campus approved list.		3-4
Cultural Studies		
Select one course from Western culture and one from non-Western/U.S. minority culture from campus approved list.		6
Foreign Language		
Coursework at or above the third level is required for graduation.		
Quantitative Reasoning I		
Select one of the following:		4-5
MATH 220	Calculus	
MATH 221	Calculus I	
MATH 234	Calculus for Business I	
Quantitative Reasoning II		
CPSC 241	Intro to Applied Statistics	3
Natural Sciences and Technology		
See Specific Concentration Requirements		
Humanities and the Arts		
Select from campus approved list		6
Social and Behavioral Sciences		
ACE 100	Agr Cons and Resource Econ (not required in Biological Sciences Concentration)	4
Select from campus approved list.		3-4
ACES required		
ACES 101	Contemporary Issues in ACES	2
Required Concentration		**58-79**
Concentration prescribed courses. See specific requirements for each concentration listed below.		
Total Hours		**126**