## UNIVERSITY OF KENTUCKY REQUEST FOR CHANGE IN MASTERS DEGREE PROGRAM

Program:		M.S. IN PLANT AND SOIL SCIENCES					
Depa	artment/Division:	PLANT AND SOIL SCIENC	ES/HC	ORTICULTU	RE		
College:		AGRICULTURE		Bulletin pp	290-292		
Degree Title (Old):		MS IN PLANT AND SOIL SCIENCES		Major (New):	MS IN INTEG	GRATED PLANT AND SOIL	
CIP Code:		01.1199		HEGIS Code:			
	editing Agency (if cable):						
I.	CHANGE(S)	IN PROGRAM REQUIREM	IENTS		ant	Proposed	
1.	Number of transfer credits allowed (Graduate School limit: 9 hours or 25% of coursework)		9	<u>Current</u>		9	
2.	Residence requirement (if applicable)		NA	NA		NA	
3.	Language(s) and/or skill(s) required		NA	NA		NA	
4.	Termination criteria			UNSATISFACTORY PROGRESS		UNSATISFACTORY PROGRESS	
5.	Plan A requirements*		HO 12 I	24 GRADUATE CREDIT HOURS 12 HOURS AT 600+ EXIT SEMINAR		24 GRADUATE CREDIT HOURS 12 HOURS AT 600+ EXIT SEMINAR	
6.	Plan B requirements*		30 O HO	30 GRADUATE CREDIT HOURS 15 HOURS AT 600+		30 GRADUATE CREDIT HOURS 15 HOURS AT 600+	
7.	Distribution of course levels required (At least one half must be at 600+ level & two thirds must be in organized courses)		161	12 HOURS AT 600+ 16 HOURS IN ORGANIZED COURSES		12 HOURS AT 600+ 16 HOURS IN ORGANIZED COURSES	

8.	Required courses (if applicable)	NA	IPS 610 – 1 CREDIT	
			IPS 625 – 2 CREDIT	
			PLS 772 – 1 CREDIT	
9.	Required distribution of courses within program	DISCIPLINARY CORE (6–9)	PROGRAM CORE (4)	
	(if applicable)	BASIC RESEARCH(4-6)	GRADUATE STATISTICS (3-4)	
		SPECIALIZATION (9-14)	SPECIALIZATION (16-17)	
10.	Final examination requirements	ORAL DEFENSE	ORAL DEFENSE	

#### 11. Any other requirements not covered above

#### II. RATIONALE FOR CHANGE(S)

If the rationale involves accreditation requirements, please include specific references to those requirements.

Graduate students in plant and soil sciences and horticulture come from diverse backgrounds with diverse interest. The existing rigid core structure of the program is an impediment to students who arrive with significant prior experience or who have specific career objectives. The revised program maximizes the flexibility of coursework to which students may be exposed, yet provides key common skills in required courses. The exposure of all students in the IPS program to the value of interdisciplinary approaches to problem solving as well as the merits of cross-disciplinary education will serve as a cohesive tool for generating mutual respect and admiration among IPS students, and help them develop more creative approaches to problem solving in their own research programs. This goal is accomplished by two new IPSS courses (IPS 610, IPS 625). The program also retains a basic requirement for experience in presenting seminars and graduate level statistics as a prerequisite of MS level students to have experience with data collection, interpretation, and analysis.

NOTE: To the extent that proposed changes in 5, 6 or 8 above involve the addition of courses in other programs, please submit correspondence from the other program(s) pertaining to the availability of such courses to your students.

<sup>\*</sup> If there is only one plan for the degree, plans involving a thesis (or the equivalent in studio work, etc.) should be discussed under Plan A and those not involving a thesis should be discussed under Plan B.

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### Signatures of Approval:

Horticulture - 01/15/10 Plant and Soil Sciences – 01/22/10	Rest 1.96 Inde Pfuffer
Date of Approval by Department Faculty  Graduate Curriculum Committee—03/05/10  Date of Approval by College Faculty	Reported by Department Chair  Lawy A Strabay  Reported by College Dean
*Date of Approval by Undergraduate Council  Received from GC 7/9/1	Reported by Undergraduate Council Chair
*Date of Approval by Graduate Council	Reported by Graduate Council Chair
*Date of Approval by Health Care Colleges Council (HCCC)	Reported by HCCC Chair
*Date of Approval by Senate Council	Reported by Senate Council Office
*Date of Approval by University Senate	Reported by Senate Council Office
*If applicable, as provided by the Rules of the University Senate	
ACTION OTHER THAN APPRO	DVAL

Rev 07/06



Robert L. Houtz, Professor

Chair, Department of Horticulture
Plant Physiology/Biochemistry/
Molecular Biology Program
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March 15, 2010

Dr. Jeannine Blackwell, Dean Graduate School 102 Gillis Building University of Kentucky Campus 0033 FYI - This cover letter addresses a variety of changes, not just the MS Plant and Soil Sciences Change.

Dear Dean Blackwell:

We would like to propose a new umbrella graduate degree program (Integrated Graduate Program in Plant and Soil Sciences, IPSS) which will provide an integrative and creative approach to graduate education in the plant and soil sciences. Graduate faculty in the departments of Forestry, Horticulture, and Plant and Soil Sciences support this proposal. The objectives of this proposal are to build strength in the currently existing graduate M.S. and PhD programs in Crop Science, Plant Physiology, Molecular Biology and Biochemistry, Horticulture, and Soil Science by combining these programs into an overall Integrated Graduate Program. The integrated program offers many advantages in student training, recruitment, program student numbers, and efficiency in administration. The program provides unique opportunities to cultivate and exploit the benefits that can be derived from an interdisciplinary approach to graduate education and research, and significantly contributes to the culture and development of graduate students as future scholars. There are two new courses associated with the IPSS program, IPS 610, and IPS 625.

The IPSS program would be a new graduate program with several options that stem from existing plant and soil science graduate programs, but also provides the opportunity for the creation of new graduate programs. The existing graduate programs in plant and soil science will continue to operate until existing students matriculate through those programs. We would anticipate a starting date for the IPSS graduate program in the fall of 2011.

A brief perusal of Plant and Soil Science graduate programs across the country shows that most are associated with Plant and Soil Science departments, but none are based on an interdisciplinary approach with separate departments like the IPSS program.

Please find attached as outlined below the documents necessary for consideration of the IPSS program.

- IPSS Proposal
- Request for new doctoral degree form
- Request for change in MS degree program
- Application for new courses: IPS610
- Application for new courses: IPS 625
- IPS 610 course description
- IPS 625 course description
- Sample syllabus IPS 610
- Sample syllabus IPS 625
- Sample distribution of courses in IPSS based on learning objectives
- Assessment Plan Graduate Program in Integrated Plant and Soil Sciences

Sincerely,

Robert L. Houtz

xc: Dr. M. Scott Smith, Dean

Robot L. Hout

Dr. Nancy Cox, Associate Dean for Research

Dr. Jimmy Henning, Associate Dean for Extension

Dr. Larry Jones, Associate Dean for Academic Programs

Dr. Larry Grabau, Assistant Dean for Academic Programs

Dr. Todd Pfeiffer, Chair, department of Plant and Soil Sciences

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Mark S. Coyne

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David A. Van Sanford