# APPLICATION FOR NEW COURSE

1.	Submitted by the College of	AGRICULTURE	Date: 01/01/201	.0
	Department/Division p course:	roposing PLANT AND SOIL	SCIENCES	
2.	Proposed designation a Prefix and a. Number	and Bulletin description of this cours	rse:	
	TRANS-I	DISCIPLINARY COMMUNICAT		
	<b>b.</b> Title INTEGRA	ATED PLANT AND SOIL SCIEN	CES	
	*If title is longer the characters or less:	han 24 characters, offer a sensil		ATION IN IPSS
	c. Courses must be d	escribed by at least one of the cate	gories below. Include number of	f actual contact hours per week
	() CLINICAL () INDEPEND. STUDY		( <u> </u>	() LECTURE () RESIDENCY
	(X) SEMINAR	STUDIO () OTHER explain:	R – Please	
	Please choose a gr <b>d.</b> system:	rading  \[ \textstyle \text{Letter (A, B, C, e}	etc.) Pass/Fail	
	Number of credit <b>e.</b> hours:	1		
	Is this course <b>f.</b> repeatable?	YES If Y ⊠ NO □ hou	ES, maximum number of creditrs:	2
	g. Course description	n:		
	program. This courequires IPSS stude of the research top	panion course to IPS 625 specific forse exposes IPSS students to critical ents to systematically evaluate resolute addressed in IPSS 625, and integrated and soil science issues. The content of the course of the c	al skills in publication, grantsmearch presentations from multipract with other members of the	anship, and public presentation. It le disciplines, present a synthesis college and the university on
	<b>h.</b> Prerequisite(s), if	any:		
	GRADUATE STU	JDENT STATUS		

			also be offered througheck one of the metho		· ·	majority of	YES  the course co	NO 🛛
		Internet/V	Veb-based	Interactive vic	leo 🗌	Extended	campus	
3.		plementary teach	ing 🔀 N/A	or Com	nunity-Based E	Experience	☐ Service	Learning Both
4.	To be cross-listed as:			printed		/		
			Prefix and Number	name	Cross-lis	sting Departr	nent Chair	signature
5.		nested effective d n/year):	late FALL	/ 20	11			
6.		Course to be offered (please check all that apply):						
7.	If No	Vill the course be offered every year?  YES NO FNO, please  xplain:						
8.	Why is this course needed? Graduate students in plant and soil sciences must recognize the interdisciplinary nature of their fields and appreciate the value of effective presentation of research ideas from multiple perspectives. To best train our graduate students we expect them to develop skills in the areas of writing, grantsmanship, research presentation and assessment. To that end we have three objectives in offering this course: 1. Gain experience in writing for publication and extramural support; 2. Gain experience in preparing oral presentations of knowledge gained though scientific inquiry; 3. Increase knowledge and appreciation of the diversity of plant and soil science issues and modes of presenting scientific research; 4. Increase scientific interactions between students and faculty on topics related to plant and soil science issues.							
				<u> </u>				
9.	a.	By whom will taught?		eam Taught - Dr	. Mark Coyne (	(Co-ordinato	or)	
	b.	Are facilities f	for teaching the course	e now available	?		⊠ YES	□ NO
		If NO, what pl	lans have been made f	for providing the	em?			
10.	Wha	•	ent may be reasonably	•				

11.	a.	Will this co	urse serve students primarily within the department?	⊠ Yes	☐ No		
	b.	Will it be of If YES, plea	interest to a significant number of students outside the department? see explain.	× YES	□ NO		
	The skills gained in this course are applicable to the professional goals of any beginning graduate student.						
12.		ES, under wha	rve as a University Studies Program course <sup>†</sup> ?	YES	⊠ NO		
			2007, THERE IS A MORATORIUM ON APPROVAL OF NEW COU	RSES FO	R USP.		
13.	Chec	ck the category	y most applicable to this course:				
	[	traditiona	al – offered in corresponding departments at universities elsewhere				
	[	relatively	new – now being widely established				
	[	not yet to	be found in many (or any) other universities				
14.	Is th	is course appli	cable to the requirements for at least one degree or certificate at UK?	⊠ Yes	☐ No		
15.		is course part of ES, please	of a proposed new program?	⊠ YES	□ NO		
	nam	e:	Graduate Program in Integrated Plant and Soil Sciences (IPSS)				
16.	Will If Y	adding this co ES <sup>‡</sup> , list below	ourse change the degree requirements for ANY program on campus? The programs that will require this course:	XES	□ NO		
This course in conjunction with IPS 625 will serve as the core course requirements in the IPSS graduate program, whi includes the existing MS program in Plant and Soil Sciences.							
	‡In c	order to change	e the program(s), a program change form(s) must also be submitted.				
17.	$\boxtimes$	The major te	aching objectives of the proposed course, syllabus and/or reference list	to be used	are attached.		
18.	Check box if course is 400G- or 500-level, <i>you must include a syllabus showing differentiation</i> for undergraduate and graduate students by (i) requiring additional assignments by the graduate students; and/or (ii) the establishment of different grading criteria in the course for graduate students. (See <i>SR</i> 500. 3.1.4)						
19.	Within the department, who should be contacted for further information about the proposed new course?						
Nam	e: <u>N</u>	Mark Coyne	Phone: 257-4202 Email: mscoyn00@e	email.uky.	edu		

# 20. Signatures to report approvals:

		Indd Pfryffer	
01/22/10	Todd Pfeif	fer /	
DATE of Approval by Department Faculty	printed name	Reported by Department Chair	signature
03/05/10	Larry J. Gr	abau / Larry &	Graban.
DATE of Approval by College Faculty	printed name	Reported by College Dean	signature
		1	
* DATE of Approval by Undergraduate Council	printed name	Reported by Undergraduate Council Chair	signature
		/	
* DATE of Approval by Graduate Council	printed name	Reported by Graduate Council Chair	signature
,		/	
* DATE of Approval by Health Care Colleges Council (HCCC)	printed name	Reported by Health Care Colleges Council Chair	signature
* DATE of Approval by Senate Council		Reported by Office of the Senate Coun	cil
* DATE of Approval by University Senate	Reported by Office of the Senate Council		

<sup>\*</sup>If applicable, as provided by the University Senate Rules. (http://www.uky.edu/USC/New/RulesandRegulationsMain.htm)

# TRANS-DISCIPLINARY COMMUNICATION IN INTEGRATED PLANT AND SOIL SCIENCES (IPS 610)

# FALL SEMESTER 2010 (Section 001)

Instructor(s): M.S. Coyne (257-4202; mscoyn00@email.uky.edu)

N-122 Ag Sci Building

R.L. Houtz (257-1982; <u>rhouz@uky.edu</u>) 401-D Plant Science Building

D. Van Sanford (257-5020; dvs@email.uky.edu)

327 Plant Science Building

Classroom: TBA Meeting Times: TBA

Office Hours: By appointment

# **PREREQUISITES**

Graduate student status.

# **COURSE DESCRIPTION**

A one-credit companion course to IPS 625 specific for graduate students in the Integrated Plant and Soil Sciences program. This course is an opportunity for IPSS students to practice important skills in manuscript preparation, grantsmanship, public presentation, and systematic evaluation of research presentations from multiple disciplines on topics related to plant and soil science issues. The course may be repeated once.

#### COURSE OBJECTIVES

- 1. Gain experience in preparing manuscripts for publication.
- 2. Gain experience in writing grants for extramural support.
- 3. Gain experience in preparing oral presentations of knowledge gained though scientific inquiry.
- 4. Increase knowledge and appreciation of the diversity of plant and soil science issues and modes of presenting scientific research.
- 5. Increase scientific interactions between students and faculty on topics related to plant and soil science issues.

#### METHODS TO MEET OBJECTIVES

- 1. Practice writing, evaluating, and editing the essential components of research publications.
- 2. Practice writing, evaluating, and editing the essential components of an extramural grant and participate in generating a group extramural grant.
- 3. Prepare presentations using computer software programs (e.g. PowerPoint) and/or overheads, and orally present to colleagues.
- 4. Increase knowledge in plant and soil science issues by attending and evaluating departmental seminars, and multiple other seminars related to plant and soil science.
- 5. Promote interaction by asking questions and participating in discussions at seminars.

# REQUIREMENTS

- 1. Present a synthesis review of the IPS 625 topic for that semester.
- 2. Peer-review at least one research manuscript during the semester.
- 3. Participate in generating a group extramural grant for IPS 625 or submit an independent extramural grant.
- 4. Attend all departmental seminars during the semester and 8 or more other seminars outside the student's disciplinary area.
- 5. Evaluate the quality of speaker presentations during the semester.

# **EVALUATION CRITERIA**

			<u>Points</u>
1.	Summary Presentation		25
2.	Peer-review of manuscript		25
3.	Grant preparation		25
4.	Seminar Attendance		5
5.	Seminar Evaluation/critique		<u>20</u>
		Total	100

There is no final exam for this course.

# **GRADING POLICY**

90-100 %	A	Superior
80-89 %	В	Very Good
70-79 %	C	Average
< 70%	Е	Fail

# **STUDENT RESPONSIBILITIES**

**Prepare a well-organized synthesis presentation.** The total time allocated for each presentation will depend on the number of student participants each term, but should last a minimum of 10 minutes with two minutes allocated for questions. This is equivalent to about 10-15 slides. Major sections of the presentation and points that you will be graded on include: Abstract (5), Eye Contact with Audience (5), Voice Projection/Diction (5), Mannerisms/Appearance (5), Timing/Smoothness (5), Accuracy/Editing of Visual Aids (5), Clarity/Quality of Visual Aids (5), Well-explained/self-explanatory Visual Aids (5), Length of Presentation (5), Introduction (10), Body (15), Summary/Conclusions (10), Knowledge of Subject (10), Handling of Questions (10). It is suggested that you keep these criteria in mind while preparing your talk. Presentation quality will be evaluated based on the average score given by students enrolled in the course and faculty in the audience (50:50 ratio). The summary presentation accounts for 25% of the course grade. It is recommended that speakers set up their presentations on their own laptop computer and become familiar with the projection/microphone/laser pointer in PSB 101 sometime during the week of final presentations. Arrangements to reserve PSB 101 and practice your talk can be made by contacting office staff in PSB 105 at 257-5020 ext. 80709. On the day of the presentation, you should arrive early and quickly evaluate your presentation to make sure the system is working properly.

**Peer Review of Manuscript.** The student will obtain or be given a manuscript for peer review. The student will be expected to evaluate the manuscript from a technical and scientific perspective and write a summary review. The manuscript peer review accounts for 25% of the course grade.

**Grant Preparation.** During the term students enrolled in IPS 625 will prepare a cooperative grant as the major course requirement. The student will participate in the preparation of that grant (if concurrently enrolled in IPS 625) or has the option of preparing an independent grant. The grant preparation accounts for 25% of the course grade.

Attend all department seminars. Attendance will be monitored by collecting speaker evaluation forms prepared by students enrolled in the course. Each student should bring a pen/pencil and a copy of the evaluation form (one copy is included in the syllabus, make additional copies as needed to obtain credit for attending seminars). Departmental seminars in Plant and Soil Sciences will take place on Friday at either 2:00 or 3:15 pm; for various reasons a seminar might take place at a different time/place or be cancelled altogether. Seminars in other departments will be at variable times. Attendance at departmental seminars accounts for 5% of the course grade.

Formal written excuses, consistent with University regulations, will be required for each absence. University policies for excused absences are specified on the web page entitled Student Rights and Responsibilities <a href="http://www.uky.edu/StudentAffairs/Code/part2.html">http://www.uky.edu/StudentAffairs/Code/part2.html</a>.

**Evaluate presentation quality at external seminars.** Students enrolled in IPS 610 are expected to evaluate the quality of presentations outside the department (a minimum of eight), with the idea that evaluators will gain better insight into what makes a good talk. Students should bring a copy of the speaker evaluation form to each seminar and turn in the completed form to the course instructor <u>each</u> week to obtain full credit for this part of the course. Evaluation criteria are as before.

\*\*This syllabus is modeled after the syllabus for PLS 772 – Section 2 – Soil Science Seminar developed by Elisa D'Angelo (PhD) Department of Plant and Soil Sciences