

UNIVERSITY OF ILLINOIS  
AT URBANA - CHAMPAIGN

EP.11.27

Office of the Provost and Vice Chancellor  
for Academic Affairs

Swanlund Administration Building  
601 East John Street  
Champaign, IL 61820



January 6, 2011

Abbas Aminmansour, Chair  
Senate Committee on Educational Policy  
Office of the Senate  
228 English Building, MC-461

Dear Professor Aminmansour:

Enclosed is a copy of a proposal from the College of ACES to revise the B.S. in Horticulture.

This proposal has been approved by the ACES Courses and Curricula Committee. It now requires Senate review.

Sincerely,

A handwritten signature in black ink that reads 'Kristi A. Kuntz'.

Kristi A. Kuntz  
Assistant Provost

KAK/njh

Enclosures

c: G. Bollero  
R. Hauser  
F. Kolb  
F. Simmons

UNIVERSITY OF ILLINOIS  
AT URBANA - CHAMPAIGN

College of Agricultural, Consumer  
and Environmental Sciences

Academic Programs  
128 Mumford Hall, MC-710  
1301 West Gregory Drive  
Urbana, IL 61801



December 17, 2010

Kristi Kuntz, Assistant Provost  
Office of the Provost, Second Floor  
Swanlund Administration Building  
Campus MC-304

Dear Kristi:

Please find enclosed two proposals from the Department of Crop Sciences:

- *Revise the Major in Horticulture*
- *Establish a Minor in Horticulture*

Both proposals have been reviewed and approved by the ACES Courses & Curricula Committee and were unanimously endorsed by the College of ACES Faculty Meeting on **Friday, December 10, 2010**.

Thank you for your consideration of these proposals. Please feel free to contact me should you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'F. William Simmons'.

F. William Simmons  
Assistant Dean, College of ACES

FWS/rhc

cc: G. A. Bollero  
R. J. Hauser  
F. L. Kolb  
CPSC C&C File



**Senate Educational Policy Committee  
Proposal Check Sheet**

**PROPOSAL TITLE** (Same as on proposal): Revision of the Horticulture concentrations 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

2. **Degree** proposal (e.g. B.S.A.E., M.S.C.E.)

New degree — please name the new degree: \_\_\_\_\_

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

3. **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:  
Horticulture

4. **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: Horticultural Science, Production and Management

5. **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: \_\_\_\_\_

6.  Proposal for renaming an existing degree, major, concentration, or minor

degree       major       concentration       minor

Please provide the current name: \_\_\_\_\_

Please provide the proposed new name: \_\_\_\_\_

7.  Proposal for terminating an existing degree, major, concentration, or minor

Please name the existing degree, major, concentration, or minor: Urban Forestry concentration within the Horticulture major

8.  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: \_\_\_\_\_

- B.  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: \_\_\_\_\_

- C.  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)

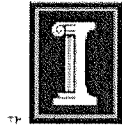
Please provide the name and college of unit one to be merged: \_\_\_\_\_

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: \_\_\_\_\_

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

Please indicate the nature of the proposal: \_\_\_\_\_



ILLINOIS

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## Proposal to the Senate Educational Policy Committee

**PROPOSAL TITLE:** Revision of the Horticulture concentrations 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](mailto:f-kolb@illinois.edu)

**COLLEGE CONTACT:** F. William Simmons, Assistant Dean, Academic Programs, 333-3380, [fsimmons@illinois.edu](mailto:fsimmons@illinois.edu)

**BRIEF DESCRIPTION:** The Department of Crop Sciences proposes the revision of the three concentrations in the Horticulture major by eliminating the Urban Forestry Concentration and revising the Horticultural Science and Production and Management Concentrations into two new concentrations to be named Sustainable Landscapes Concentration and Specialty Crops Concentration. There are currently no students in the Urban Forestry Concentration, and the concentration has had very low enrollment for a number of years. The major revisions in the two remaining concentrations, in addition to the name changes, are in the courses required within the horticulture rubric and the reduction in number of hours required for graduation from 130 hours to 126 hours. The proposed Programs of Study for the two new concentrations are attached along with the current checksheets for the Horticultural Sciences Concentration and the Production and Management Concentration with changes to the concentrations indicated using “track changes”.

**JUSTIFICATION:** The Urban Forestry concentration is being discontinued because there has been very low enrollment in this concentration. Two students graduated from this concentration in spring 2007, and there have not been any students enrolled in the concentration since that time. The names of the two remaining concentrations are being changed to more accurately describe the curricular content of each concentration, reflect evolving societal themes, and increase the visibility of the curriculum to prospective students. The changes in courses required in the new Specialty Crops Concentration are designed to provide more flexibility and allow students to pursue a set of classes providing a strong background in a specific topic area within the broader discipline of horticulture. The more substantial revisions changing the Horticultural Science Concentration to the new Sustainable Landscapes Concentration are designed to provide an updated and restructured curriculum focused on the sustainable use of plants in landscapes, an area that is in demand in the marketplace. The changes in the names of the concentrations and updates in requirements will greatly enhance our horticulture program

and position these concentrations to address important emerging societal themes such as local foods, urban agriculture, sustainable landscapes, and green roofs.

## **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. Funds will be required to continue to pay several Academic Professionals who are involved in providing instruction in several courses (especially HORT 316 and HORT 355). 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. This is a concern because the recent budget situation has precluded refilling any faculty positions in this area during the last several years when faculty members have retired or pursued other opportunities.

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

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

- b. 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 curriculum a realistic increase is probably 25 % (from the current 49 students to about 60-65 students). It is not anticipated that an additional 4-5 students per year in this program will impact course enrollments in classes outside of the Horticulture major.

- c. Impact on the University Library

No impact is expected.

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

No impact is expected on computer labs. Some labs within Horticulture 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,

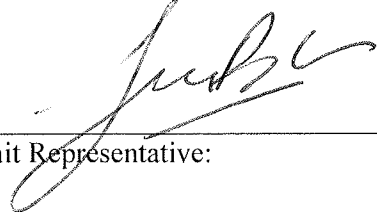
we would like to have the effective date be Fall semester of 2011. Realistically, we recognize that it may take until Fall semester of 2012 to complete all of the necessary approvals.

**STATEMENT FOR PROGRAMS OF STUDY CATALOG:**

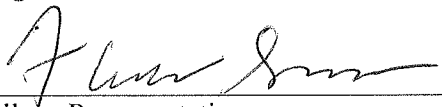
The major in Horticulture is designed for students who want a basic knowledge of horticulture. Emphasis is placed on the basic plant sciences to give a general background for the specialized topics in horticulture. Opportunities open to graduates of this major include managing the production of horticultural crops in greenhouses, nurseries, and farms; managing residential landscape design and construction firms; park and golf course management; supervising landscape maintenance and arboriculture firms; flower shop management and floral design; plant breeders; positions as sales representatives and horticulturists with seed and plant suppliers, and horticultural supply firms; employment with state or federal government agencies or institutions as teachers, researchers, horticultural advisors, crop inspectors, and consultants; and horticultural mass media specialists. The major also prepares students for graduate study in horticulture or plant science. Students can select from concentrations in sustainable landscapes and specialty crops. A total of 126 hours are required for graduation.

**CLEARANCES:**

Signatures:

  
\_\_\_\_\_  
Unit Representative:

12-15-10  
\_\_\_\_\_  
Date:

  
\_\_\_\_\_  
College Representative:

12-13-10  
\_\_\_\_\_  
Date:

\_\_\_\_\_  
Graduate College Representative:

\_\_\_\_\_  
Date:

\_\_\_\_\_  
Provost Representative:

\_\_\_\_\_  
Date:

\_\_\_\_\_  
Educational Policy Committee Representative:

\_\_\_\_\_  
Date:



## Major in Horticulture

For the Degree of Bachelor of Science with a Major in Horticulture

The major in Horticulture is designed for students who want a basic knowledge of horticulture. Emphasis is placed on the basic plant sciences to give a general background for the specialized topics in horticulture. Opportunities open to graduates of this major include managing the production of horticultural crops in greenhouses, nurseries, and farms; managing residential landscape design and construction firms; park and golf course management; supervising landscape maintenance and arboriculture firms; flower shop management and floral design; plant breeders; positions as sales representatives and horticulturists with seed and plant suppliers, and horticultural supply firms; employment with state or federal government agencies or institutions as teachers, researchers, horticultural advisors, crop inspectors, and consultants; and horticultural mass media specialists. The major also prepares students for graduate study in horticulture or plant science. Students can select from concentrations in sustainable landscapes and specialty crops. A total of 126 hours are required for graduation.

General Education Required

Specialty Crops Concentration

Sustainable Landscapes Concentration

### General Education Required

Hours	Composition I and Speech
4	RHET 105 - Principles of Composition or equivalent (see college Composition I requirement)
3	CMN 101 - Public Speaking

Hours	Advanced Composition
3	See campus approved list.

Hours	Cultural Studies
6	Select one course from Western culture and one from non-Western/U.S. minority culture from campus approved list.

Hours	Foreign Language: Coursework at or above the third level is required for graduation.
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Hours	Quantitative Reasoning I
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3-5	MATH 124 - Finite Mathematics, or MATH 220 - Calculus I, or MATH 234 - Calculus for Business I
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Hours	Quantitative Reasoning II
3	CPSC 241 - Intro to Applied Statistics

Hours	Natural Sciences and Technology
4	CHEM 102 - General Chemistry I and CHEM 103 - General Chemistry Lab I
4	CHEM 104 - General Chemistry II and CHEM 105 - General Chemistry Lab II
4	IB 103 - Introduction to Plant Biology

Hours	Humanities and the Arts
6	Select from campus approved list.

Hours	Social and Behavioral Sciences
3	ACE 100 - Agr Cons and Resource Econ, OR ECON 102 - Microeconomic Principles
3	Soc. & Behavioral Sci. course selected from campus approved list. Preferred: NRES 287 – Environment and Society

Hours	ACES required
2	ACES 101 - Contemporary Issues in ACES

Hours	Plant Sciences required
3	CPSC 226 - Introduction to Weed Science
3	CPSC 270 – Applied Entomology
1	CPSC 498 – Undergraduate Seminar
4	NRES 201 – Introductory Soils
3	PLPA 204 – Introductory Plant Pathology

Hours	Horticulture required
3	HORT 100 – Introduction to Horticulture
3	HORT 240 – Plant Propagation
3	HORT 293 – Professional Internship, OR HORT 294 – Resident Internship
4	HORT 341 – Greenhouse Mgmt and Production
3-4	One physiology course selected from: HORT 421 – Horticultural Physiology; OR HORT 466 – Growth and Dev. Hort. Crops; OR

	IB 420 – Plant Physiology
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Hours	Business required
3	One course selected from: ACCY 200 – Fundamentals of Accounting; OR ACE 231 – Food and Agribusiness Mgt; OR BADM 310 – Mgmt and Organizational Behavior; OR ACE 222 – Agricultural Marketing; OR BTW 250 Principles of Business Communication

### Specialty Crops Concentration

This concentration prepares students for careers in horticultural production, marketing, management, and use of horticultural crops, including flowers, food crops, ornamentals and turfgrass; for careers in teaching and/or research in horticulture; or for careers in businesses providing services related to horticultural industries.

Hours	Specialty Crops Concentration Required
4	CPSC 352 - Plant and Animal Genetics
2-4	One course selected from: HORT 363 – Postharvest Handling Hort Crop; OR HORT 442 Plant Nutrition; OR HORT 482 – Plant Tissue Culture; OR NRES 488 – Soil Fertility and Fertilizers
4	One course selected from: CHEM 232 – Elementary Organic Chemistry; OR CPSC 382 – Organic Chemistry of Biological Processes

Hours	Specialty Crop Concentration Electives
15	Choose a minimum of 15 hours from the following list: HORT 205 – Local Food Networks HORT 236 – Introduction to Turfgrass Management HORT 246 – Floral Design I HORT 346 – Floristry and Floral Design II HORT 361 - Small Fruits and Viticulture HORT 362 - Tree Fruit Production HORT 363 – Postharvest Handling Hort Crop HORT 436 - Advanced Turfgrass Management HORT 441 – Floral & Nursery Crops Productn HORT 447 – Horticultural Plant Breeding HORT 453 – Principles of Plant Breeding HORT 458 – Tree Mgmt in the Urban Forest HORT 464 – International Hort Products HORT 489 – Controlling Turfgrass Pests

## Sustainable Landscapes Concentration

Students in the Sustainable Landscapes concentration study horticulture with a strong emphasis on the physical and biological sciences. Students will develop basic landscape design and plant identification skills, as well as an understanding of approaches to the design, installation and management of urban and suburban landscapes in a sustainable manner. Courses focus on plant materials, environmental systems, sustainable design, and landscape construction and maintenance.

Hours	Sustainable Landscapes Concentration required
3	HORT 255 – Multifunctional Landscapes
4	HORT 301 - Woody Landscape Plants I
3	HORT 355 – Landscape Graphics & Design
3	HORT 450 - Landscape Contracting
4-5	HORT 456 – Sustainable Landscape Design
4	HORT 458 – Landscape Maintenance
9-12	Select three courses from: HORT 215 – Grasses in Managed Settings; HORT 236 – Intro to Turfgrass Management; HORT 302 – Woody Landscape Plants II; HORT 316 –Native Plants for Landscapes; HORT 343 - Herbaceous Plants I; HORT 344 - Herbaceous Plants II
3-4	Select <u>one</u> environmental systems course from: CPSC 336 – Tomorrow’s Environment; CPSC 431 – Plants and Global Change; CPSC 437 - Principles of Agroecology; NRES 219 - Principles of Ecosystem Management; NRES 420 - Restoration Ecology; NRES 465 – Landscape Ecology

For the Degree of Bachelor of Science  
Horticulture Major  
Specialty Crops Concentration  
Effective:

COURSES	HOURS	COURSES	HOURS
<b>GENERAL EDUCATION REQUIRED</b>		<b>ACES REQUIRED</b>	
<b>Composition I and Speech</b> RHET 105	4	ACES 101	2
SPCM 101 (CMN 101 effective SP09)	3	<b>PRODUCTION AND MANAGEMENT CONCENTRATION REQUIRED</b>	
<b>Advanced Composition</b> <sup>1</sup>	3-4	ACCY 200 or 201; ACE 231; or BADM 310 (Add ACE 222 and BTW 250 to list)	3
<b>Cultural Studies</b> <sup>1</sup>		CHEM 232 or CPSC 382	3
One Western culture and One non-Western/U.S. minority culture		CPSC 270 or NRES 280 CPSC 352	3 4
<b>Foreign Language</b> <sup>2</sup>		HORT 100	3
<b>Quantitative Reasoning I</b>		HORT 240	4
MATH 124, 220, 221, or 234	3-5	HORT 301	3
<b>Quantitative Reasoning II</b>		HORT 341	3
Statistics (specify CPSC 241)	3-4	CPSC 498	1
<b>Natural Sciences and Technology</b>		NRES 201	4
CHEM 102 and 103	3, 1	PLPA 204	3
CHEM 104 and 105	3, 1	One course selected from: HORT 421, 466; IB 420	3-4
IB 103	4	One course selected from: HORT 363, 442, 482, 488	3-4
<b>Humanities and the Arts</b> <sup>1</sup>		<b>(Choose from List)</b>	15
	6	<b>OPEN ELECTIVES</b> <sup>3</sup>	
<b>Social and Behavioral Sciences</b>		<b>Total Hours</b>	
ECON 102 (Add ACE 100 to list)	3-4		
Social and Behavioral Sciences courses <sup>1</sup> .	3		
			23-29
			<b>126</b>

Minimum of 15 hours of major and concentration courses must be completed on the UIUC campus.  
Total ACES prescribed and elective courses must equal at least 40 hours.  
Students must be enrolled in the College of ACES/UIUC for at least 60 hours.

<sup>1</sup>Work with your academic advisor. For completing GenEd requirements, consult with your academic advisor and refer to the most current GenEd approved list available at <http://courses.illinois.edu/cis/gened/>.

<sup>2</sup>Course work at or above the third level is required for graduation.

<sup>3</sup>Students should consider taking advantage of approved internship and/or study abroad credit for fulfilling open elective hours or other curriculum requirements.

For the Degree of Bachelor of Science  
Horticulture Major  
Sustainable Landscapes Concentration  
Effective:

COURSES	HOURS	COURSES	HOURS
<b>GENERAL EDUCATION REQUIRED</b>		<b>ACES REQUIRED</b>	2
<b>Composition I and Speech</b>		ACES 101	3-4
RHET 105	4	<b>SUSTAINABLE LANDSCAPES</b>	3
		<b>CONCENTRATION REQUIRED</b>	13
SPCM 101	3		3 343
(CMN 101 effective SP09)		ACCY 200 or 201; ACE 222 or 231; or BADM 310; or BTW 250	3
<b>Advanced Composition<sup>1</sup></b>	3-4		4
		CPSC 270 CPSC 498	3
<b>Cultural Studies<sup>1</sup></b>		HORT 100	3
One Western culture		HORT 240	4-5
and		HORT 293 or 294	4
One non-Western/U.S. minority culture		HORT 341	9-12
<b>Foreign Language<sup>2</sup></b>		NRES 201	
		PLPA 204	
<b>Quantitative Reasoning I</b>		HORT 255	3
MATH 124, MATH 220, 221, or 234	3-5	HORT 301	
		HORT 355	
<b>Quantitative Reasoning II</b>		HORT 450	3-4
Statistics (Specify CPSC 241)	3	HORT 456	
		HORT 458	
<b>Natural Sciences and Technology</b>			11-21
CHEM 102 and 103	3, 1	Three courses selected from:	<b>126</b>
CHEM 104 and 105	3, 1	HORT 215, HORT 236, HORT 302, HORT 316, HORT 343, HORT 344	
IB 103	4	One course selected from:	
		CPSC 336, CPSC 431, CPSC 437, NRES 219, NRES 420, NRES 465	
<b>Humanities and the Arts<sup>1</sup></b>	6	One course selected from:	
		HORT 421, 466; IB 420	
<b>Social and Behavioral Sciences</b>			
ECON 102 (add ACE 100 to list)	3	<b>OPEN ELECTIVES<sup>3</sup></b>	
		<b>Total Hours</b>	
Social and Behavioral Sciences courses <sup>1</sup> .	3		
	3		

Minimum of 15 hours of major and concentration courses must be completed on the UIUC campus.  
Students must be enrolled in the College of ACES/UIUC for at least 60 hours.

<sup>1</sup>Work with your academic advisor. For completing GenEd requirements, consult with your academic advisor and refer to the most current GenEd approved list available at <http://courses.illinois.edu/cis/gened/>

<sup>2</sup>Course work at or above the third level is required for graduation.

<sup>3</sup>Students should consider taking advantage of approved internship and/or study abroad credit for fulfilling open elective hours or other curriculum requirements.

## Chappell, Rob

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**From:** Kolb, Fred  
**Sent:** Wednesday, December 15, 2010 09:27  
**To:** Chappell, Rob; Simmons, Bill  
**Subject:** FW: ACE classes in revised Horticulture curriculum

Rob,

Here are the messages from ACE.

Fred

Frederic L. Kolb  
Cavanah Professor of Plant Breeding and Genetics  
Crop Sciences Teaching Coordinator  
Department of Crop Sciences  
University of Illinois  
1102 S. Goodwin Ave.  
Urbana, IL 61801

Ph (217) 333-9485  
[f-kolb@illinois.edu](mailto:f-kolb@illinois.edu)

**From:** Braden, John  
**Sent:** Tuesday, December 07, 2010 5:15 PM  
**To:** Ellinger, Paul; Bollero, Germán; Simmons, Bill; Kolb, Fred  
**Subject:** RE: ACE classes in revised Horticulture curriculum

Fred, Paul, et al.

I have heard from most members of C&C and faculty members teaching related courses. All of them support the revisions proposed by Crop Sci.

Sincerely,

John

John B. Braden, Professor  
Department of Agricultural & Consumer Economics  
University of Illinois  
1301 W. Gregory Drive, Rm. 304  
Urbana, IL 61801  
[jbb@illinois.edu](mailto:jbb@illinois.edu); p +1 217 333 5501; f +1 217 333 2312

**From:** Ellinger, Paul  
**Sent:** Monday, December 06, 2010 11:29 AM  
**To:** Bollero, Germán; Simmons, Bill; Kolb, Fred  
**Cc:** Braden, John  
**Subject:** FW: ACE classes in revised Horticulture curriculum

Fred, I don't not see a problem with this. As a matter of procedure, I will pass this to John Braden to get confirmation from ACE Department C&C. Paul

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**Paul N. Ellinger, PhD**  
**Professor and Head, Department of ACE**  
University of Illinois  
Phone 217.333.5503 Fax 217.333.2312  
http://www.ace.uiuc.edu

**From:** Kolb, Fred  
**Sent:** Tuesday, November 30, 2010 6:02 PM  
**To:** Ellinger, Paul  
**Cc:** Bollero, Germán; Simmons, Bill  
**Subject:** ACE classes in revised Horticulture curriculum

Dear Dr. Ellinger,

The Department of Crop Sciences is in the process of revising our undergraduate Horticulture concentrations. Several ACE classes are listed in the new concentrations that did not appear in the current concentrations. ACE 100 has been added as an alternative to ECON 102, and ACE 222 and 231 have been added in a list of classes that can fulfill a requirement. Currently there are about 48 students in the Horticulture program, and we hope to increase enrollment by 20-30 % over time so we anticipate that this might add 10 -15 students per year to ACE 100 and possibly 5 -8 students per year to ACE 222 and ACE 231. If the capacity is available in these classes and this is acceptable to the ACE Department could you please send me an e-mail stating that these changes are acceptable. Also, please copy your reply to Germán and Bill Simmons.

For your information, I've attached the proposal for the revision of the Horticulture concentrations and two checksheet files showing the changes using "track changes".

Thank you for your help.

Fred Kolb

Frederic L. Kolb  
Cavanah Professor of Plant Breeding and Genetics  
Crop Sciences Teaching Coordinator  
Department of Crop Sciences  
University of Illinois  
1102 S. Goodwin Ave.  
Urbana, IL 61801

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