Code # Enter text…

**New Course Proposal Form**

**[ X] Undergraduate Curriculum Council**

**[ ] Graduate Council**

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| **[ X] New Course or [ ]Experimental Course (1-time offering) (Check one box)** |

Signed paper copies of proposals submitted for consideration are no longer required. Please type approver name and enter date of approval.

Email completed proposals to curriculum@astate.edu for inclusion in curriculum committee agenda.

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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**COPE Chair (if applicable)** |
| Donald Kennedy 2/20/2017**Department Chair:**  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Head of Unit (If applicable)**   |
| Kim Pittcock 2/17/2017**College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Undergraduate Curriculum Council Chair** |
| Timothy N. Burcham 2/20/2017**College Dean** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Graduate Curriculum Committee Chair** |
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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |

**General Education Committee Chair (If applicable)**   | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Vice Chancellor for Academic Affairs** |

1. Contact Person (Name, Email Address, Phone Number)

Kim Pittcock, kpittcoc@astate.edu; 2847

2. Proposed Starting Term and Bulletin Year

Fall 2017

3. Proposed Course Prefix and Number (Confirm that number chosen has not been used before. For variable credit courses, indicate variable range. *Proposed number for experimental course is 9*. )

HORT 4333

4. Course Title – if title is more than 30 characters (including spaces), provide short title to be used on transcripts. Title cannot have any symbols (e.g. slash, colon, semi-colon, apostrophe, dash, and parenthesis). Please indicate if this course will have variable titles (e.g. independent study, thesis, special topics).

Greenhouse and Nursery Production

Short title: Greenhouse and Nursery Prod

5. Brief course description (40 words or fewer) as it should appear in the bulletin.

Principles and practices involved in greenhouse and nursery operations: production, management, and marketing.

6. Prerequisites and major restrictions. (Indicate all prerequisites. If this course is restricted to a specific major, which major. If a student does not have the prerequisites or does not have the appropriate major, the student will not be allowed to register).

1. Are there any prerequisites? Yes
	1. If yes, which ones?

PSSC 1303

* 1. Why or why not?

The students need to know the general aspects of plant growth and development.

1. Is this course restricted to a specific major? No
	1. If yes, which major? Enter text...

7. Course frequency(e.g. Fall, Spring, Summer). *Not applicable to Graduate courses.*

Spring, even

8. Will this course be lecture only, lab only, lecture and lab, activity, dissertation, experiential learning, independent study, internship, performance, practicum, recitation, seminar, special problems, special topics, studio, student exchange, occupational learning credit, or course for fee purpose only (e.g. an exam)? Please choose one.

Lecture and lab

9. What is the grade type (i.e. standard letter, credit/no credit, pass/fail, no grade, developmental, or other [please elaborate])

Standard letter

10. Is this course dual listed (undergraduate/graduate)?

YES

11. Is this course cross listed? (If it is, all course entries must be identical including course descriptions. It is important to check the course description of an existing course when adding a new cross listed course.)

NO

1. If yes, please list the prefix and course number of cross listed course.

 Enter text...

1. Are these courses offered for equivalent credit? No

 Please explain. Enter text...

12. Is this course in support of a new program? NO

a. If yes, what program?

 Enter text...

13. Does this course replace a course being deleted? YES

a. If yes, what course?

HORT 4253 Greenhouse Mgmt and HORT 4273 Nursery Mgmt (combining many aspects of these courses due to overlap in course content)

14. Will this course be equivalent to a deleted course? No

a. If yes, which course?

Enter text...

15. Has it been confirmed that this course number is available for use? YES

 *If no: Contact Registrar’s Office for assistance.*

16. Does this course affect another program? NO

If yes, provide contact information from the Dean, Department Head, and/or Program Director whose area this affects.

Enter text...

**Course Details**

17. Outline (The course outline should be topical by weeks and should be sufficient in detail to allow for judgment of the content of the course.) **\*Labs are concurrent with the lecture week.**

Week 1 Introduction and History of GH and NSY in US

Week 2 Greenhouse, Floral and Nursery Industry

Week 3 Greenhouse Structures, Site Selection, Layout

Week 4, Laws, Regulations, Licensure

Week 5 Media and Containers

Week 6 Heating Systems

Week 7 Cooling Systems

Week 8 Plant Propagation (Sexual)

Week 9 Plant Propagation (Asexual)

Week 10 Fertilizers and Fertilization

Week 11 Greenhouse Pest and Disease

Week 12 Chemicals and Chemical Safety

Week 13 Crop Scheduling

Week 14 Speciality crops (Flowering pot plants, cut flowers); Crop production papers due

Lab 1 Bedding Plant Seed Scheduling

Lab 2 GH Structure, Nsy Layout and Design

Lab 3 Seed Propagation

Lab 4 Woody Propagation, Interior Plant and Softwood Propagation

Lab 5 Media Density and Porosity

Lab 6 Heating BTU Problems

Lab 7 Container grown crop production systems

Lab 8 Bedding plant production systems

Lab 9 Flowering pot plant

Lab 10 Tropical production systems

Lab 11 Cut flower production systems

Lab 12 Production costs (direct costs)

Lab 13 Production costs (indirect costs)

Lab 14 Crop production paper presentations (brief overview)

18. Special features (e.g. labs, exhibits, site visitations, etc.)

Labs, site visits

19. Department staffing and classroom/lab resources

No new resources

1. Will this require additional faculty, supplies, etc.?

 None

20. Does this course require course fees? No

 *If yes: please attach the New Program Tuition and Fees form, which is available from the UCC website.*

**Course Justification**

21. Justification for course being included in program. Must include:

 a. Academic rationale and goals for the course (skills or level of knowledge students can be expected to attain)

 This course will provide specific instruction on a specialized areas of production within the Horticulture industry and may be used as an upper level elective in the College of Agriculture and Technology for non-Horticulture students. A greenhouses and nursery are now either owned by the same individual and or by large corporations. Due to reorganization in the industry (vast consolidations) over the past two decades, the growing practices, procedures, management, and marketing have become combined into one production unit. Most universities in the northern US have deleted nursery production from their curriculum due to this consolidation and relocation of many production facilities to the south. Due to our locale, there is a need for both of nursery and greenhouse production systems to be taught. With the overlap in many aspects of these production courses (media, fertilizers, heating systems, pests, and diseases), it makes sense for one combined course to meet the current needs of our students. Students will learn each production system, their differences, and commonalities.

b. How does the course fit with the mission established by the department for the curriculum? If course is mandated by an accrediting or certifying agency, include the directive.

 One of the missions in the College of Agriculture and Technology is to prepare students with holistic understanding in all aspects of the agricultural industry. This includes horticulture and the various production systems. The new structure reflects current industry standards and will help prepare students to work in the new interconnected system.

c. Student population served.

Students within the College of Agri and Tech.

d. Rationale for the level of the course (lower, upper, or graduate).

Upper level and gradate due to the complexity of the production systems. The students will utilize information learned in many lower level courses, as well as other plant science and entomology courses. This course is the capstone course for the Horticulture program. Students will be advised to take this course, only as a senior. This course is the primary program-level assessment venue for the Horticulture emphasis area.

**Assessment**

**University Outcomes**

22. Please indicate the university-level student learning outcomes for which this new course will contribute. Check all that apply.

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| * 1. **[ ]** Global Awareness
 | * 1. **[X ]** Thinking Critically
 | * 1. **[X ]** Information Literacy
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**Relationship with Current Program-Level Assessment Process**

23. What is/are the intended program-level learning outcome/s for students enrolled in this course? Where will this course fit into an already existing program assessment process?

Students will demonstrate depth in an emphasis area to support their professional goals.

24. Considering the indicated program-level learning outcome/s (from question #23), please fill out the following table to show how and where this course fits into the program’s continuous improvement assessment process.

*For further assistance, please see the ‘Expanded Instructions’ document available on the UCC - Forms website for guidance, or contact the Office of Assessment at 870-972-2989.*

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| **Program-Level Outcome 1 (from question #23)** | Students will demonstrate depth in an emphasis area to support their professional goals. |
| Assessment Measure | Students will be able to develop in depth greenhouse or nursery production procedures and schemes.  |
| Assessment Timetable | Spring, even years |
| Who is responsible for assessing and reporting on the results? | Kim Pittcock, Associate Professor of Horticulture  |

 *(Repeat if this new course will support additional program-level outcomes)*

 **Course-Level Outcomes**

25. What are the course-level outcomes for students enrolled in this course and the associated assessment measures?

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| **Outcome 1** | Will be able to develop in depth horticulture production procedures and schemes (assessed through crop production paper).  |
| Which learning activities are responsible for this outcome? | Crop production paper |
| Assessment Measure  | Rubric  |

*(Repeat if needed for additional outcomes)*

**Bulletin Changes**

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| **Instructions**  |
| **Please visit** [**http://www.astate.edu/a/registrar/students/bulletins/index.dot**](http://www.astate.edu/a/registrar/students/bulletins/index.dot) **and select the most recent version of the bulletin. Copy and paste all bulletin pages this proposal affects below. Follow the following guidelines for indicating necessary changes.** **\*Please note: Courses are often listed in multiple sections of the bulletin. To ensure that all affected sections have been located, please search the bulletin (ctrl+F) for the appropriate courses before submission of this form.** - Deleted courses/credit hours should be marked with a red strike-through (~~red strikethrough~~)- New credit hours and text changes should be listed in blue using enlarged font (blue using enlarged font). - Any new courses should be listed in blue bold italics using enlarged font (***blue bold italics using enlarged font***)*You can easily apply any of these changes by selecting the example text in the instructions above, double-clicking the ‘format painter’ icon 🡪 , and selecting the text you would like to apply the change to.* *Please visit* [*https://youtu.be/yjdL2n4lZm4*](https://youtu.be/yjdL2n4lZm4) *for more detailed instructions.* |

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| **Emphasis Area (Environmental Horticulture):**  | **Sem. Hrs.**  |
| CHEM 1052, Fundamental Concepts of Organic and Biochemistry  | 2  |
| HORT 3293, Landscape Plant Materials  | 3  |
| HORT 2253, Fundamentals of Horticulture  | 3  |
| ~~HORT 4253, Greenhouse Management~~HORT 4333, Greenhouse and Nursery Production  | 3  |
| PSSC 3323, Weeds and Weed Control  | 3  |
| AGRI, AGST or HORT electives, or BIO 1503, Biology of Plants, or related area  | 18  |
| **Sub-total**  | **32**  |
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**HORT 4233. Commercial Vegetable Production** Origin, nutritive value, botany and cultural produc­tion practices of major vegetable crops, emphasizing sustainable practices, soil management, IPM for insects, diseases and weed, with discussion of organic practices and economics of wholesale farmers’ markets. Prerequisite PSSC 1303. Spring, odd.

**~~HORT 4253. Greenhouse Management~~** ~~Construction, operational practices, and general man­agement of greenhouses and associated structures. Lecture two hours, laboratory two hours per week. Prerequisite, PSSC 1303. Spring, even.~~

**~~HORT 4263. Floriculture~~** ~~Principles and practices of production of commercial flower crops in the greenhouse and field. Lecture two hours, laboratory two hours per week. Prerequisite, PSSC 1303. Fall, odd.~~

**~~HORT 4273. Nursery Management~~** ~~Principles and practices involved in the production, man­agement, and marketing of field grown and container grown nursery plants. Lecture two hours, laboratory two hours per week. Prerequisites, PSSC 1303. Spring, even.~~

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The bulletin can be accessed at http://www.astate.edu/a/registrar/students/

**HORT 4283. Landscape Design** Continuation of HORT 3293, the organization of outdoor spaces in relation to architecture and general environment. Lecture two hours, laboratory two hours per week. Prerequisite, HORT 3293. Fall, even.

**HORT 429V. Special Problems in Horticulture** For students of senior standing. Approval of instructor and dean necessary. Fall, Spring, Summer.

**HORT 4323. Plant Propagation** Principles, practices, and methods employed in the propagation of plants. Prerequisite, PSSC 1303. Spring, odd.

**HORT 4333. Greenhouse and Nursery Production** Principles and practices involved in greenhouse and nursery operations: production, management, and marketing. Lecture and Lab. Prerequisite, PSSC 1303. Spring, even.

**Plant and Soil Science (PSSC)**

**PSSC 1301. Plant Science Laboratory** Introduction to agronomic and horticultural concepts related to crop anatomy, growth and development, physiology, and pest identification and management. Spring.

**PSSC 1303. Introduction to Plant Science** Agronomic and horticultural cropping systems includ­ing crop growth and development, crop physiology, crop ecology, environmental considerations, and production and protection practices. Fall, Spring.

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