



UNIVERSITY OF KENTUCKY

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COLLEGE OF AGRICULTURE

February 9, 2008

MEMO

To: Dr. Jeannine Blackwell
Dean, Graduate School

From: Dr. Mike Mullen
Associate Dean

A handwritten signature in black ink, appearing to read 'mullen'.

Re: Change in Plant Pathology 671 Course

The College of Agriculture is forwarding the following curriculum proposal.

1. Major Course Change.
 - a. Change PPA 671. The instructor is increasing the credits from 1 hour to 2 hours. This course was put in as a 1 hour course in 2006 but has found that he cannot adequately cover the material.

Thank you for your assistance.

Office of Academic Programs
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UNIVERSITY OF KENTUCKY
APPLICATION FOR CHANGE IN EXISTING COURSE: MAJOR & MINOR

1. Submitted by College of Agriculture Date August 8, 2007
Department/Division offering course Plant Pathology
2. Changes proposed:
(a) Present prefix & number PPA 671 Proposed prefix & number no change
(b) Present Title Advanced Plant Virology
New Title no change
(c) If course title is changed and exceeds 24 characters (Including spaces), include a sensible title (not to exceed 24 characters) for use on transcripts:

(d) Present credits: 1 Proposed credits: 2
(e) Current lecture: laboratory ratio 100:0 Proposed: no change
(f) Effective Date of Change: (Semester & Year) Spring 2008
3. To be Cross-listed as: N/A
Prefix and Number _____ Signature: Department Chair _____
4. Proposed change in Bulletin description:
(a) Present description (including prerequisite(s)):
no change

(b) New description:

(c) Prerequisite(s) for course as changed: no change
5. What has prompted this proposal?
It is currently not efficient nor effective to communicate the required information in a one-credit course.
Expansion to two credits is in response to requests from the students as well as the relevant lecturers.
6. If there are to be significant changes in the content or teaching objectives of this course, indicate changes:
The topics will be covered in more depth. Hot topics-Reviews written/presented by the students will also be included.

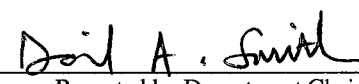
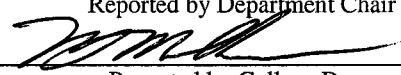
7. What other departments could be affected by the proposed change?
Entomology, Horticulture, Plant and Soil Sciences.
8. Is this course applicable to the requirements for at least one degree or certificate at the University of Kentucky? Yes No
9. Will changing this course change the degree requirements in one or more programs?
If yes, please attach an explanation of the change. (NOTE - If "yes," program change form must also be submitted.) Yes No
10. Is this course currently included in the University Studies Program?
If yes, please attach correspondence indicating concurrence of the University Studies Committee. Yes No

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11. If the course is 400G or 500 level, include syllabi or course statement showing differentiation for undergraduate and graduate students in assignments, grading criteria, and grading scales. Check here if 400G-500.
12. Is this a minor change? Yes No
 (NOTE: See the description on this form of what constitutes a minor change. Minor changes are sent directly from the Dean of the College to the Chair of the Senate Council. If the latter deems the change not to be minor, it will be sent to the appropriate Council for normal processing.)
13. Within the Department, who should be consulted for further information on the proposed course change?

Name: Peter Nagy or Michael Goodin Phone Extension: 257-7445 x 80726/80725

Signatures of Approval:

July 2, 2007 Date of Approval by Department Faculty	 Reported by Department Chair
12/6/2007 Date of Approval by College Faculty	 Reported by College Dean
*Date of Approval by Undergraduate Council	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.

The Minor Change route for courses is provided as a mechanism to make changes in existing courses and is limited to one or more of the following:

- a. change in number within the same hundred series;
- b. editorial change in description which does not imply change in content or emphasis;
- c. editorial change in title which does not imply change in content or emphasis;
- d. change in prerequisite which does not imply change in content or emphasis;
- e. cross-listing of courses under conditions set forth in item 3.0;
- f. correction of typographical errors. [University Senate Rules, Section III - 3.1]

PPA 671: Advanced Plant Virology

Semesters taught: Every Spring.

Credit hours: 2

Class schedule: One 100 minute session a week

Instructors: Peter Nagy and Michael Goodin

Course Description:

Molecular basis of plant virus infection of plants. Virus replication and spread. Virus control strategies. Prerequisites: PPA 400G, PPA 500, PPA 600.

Course Requirements: Each lecture will provide an in-depth coverage of topics, facilitated by discussion and student presentations. This course will require significant reading (e.g. 1-2 book chapters and or journal articles per lecture) as well as preparation (e.g. Powerpoint presentations) to be conducted by the student outside of the classroom.

Topics:

Lecturer: Peter Nagy

- 1 Introduction/Positive-stranded RNA viruses/infection cycle.
- 2 Virus entry/genome structure/gene expression
- 3 RNA replication I
- 4 RNA replication II-overview. Defective and satellite RNAs.
- 5 Early events in virus infections (student presentation 1-2)
- 6 RNA virus evolution/RNA recombination/encapsidation/virus structure
- 7 Midterm exam

Lecturer: Michael Goodin

8. Minus-strand and dsRNA viruses
9. Plant DNA viruses/Plant viroids
10. Virus intracellular movement
11. Virus cell-to-cell and long-distance movement
12. Virus suppressions of antiviral defenses
13. Viruses as molecular tools for genetic engineering (student presentation 3-4)
14. Virus Control Strategies (student presentation 5)
15. Final exam

• Assignments, Exams and Grades:

Participation: 40 pts

Midterm exam: 30 pts

Final exam: 30 pts

Grades

- | | |
|--------------|-----------|
| • 90-100%: A | 80-89%: B |
| • 70-79%: C | <70%: E |