December 23, 2002

MEMORANDUM

TO: Graduate Council

FROM: Joe T. Davis
Associate Dean for Instruction

The College of Agriculture has reviewed and recommends approval for the following new course. Also attached is the notification memo to the Deans, Department Chairs and Members of the University Senate.

Application for New Course

PLS 514; Title: Grass Taxonomy and Identification. The course will provide an overview of the grass family, concentrating on taxonomic issues and identification skills for over 200 species (turf, forages, weeds, etc.). Lecture, 2 hours per week; Lab 2 hours per week. 3 credits. Prereq: PLS 220 or consent of instructor.

JTD/lish
APPLICATION FOR NEW COURSE

1. Submitted by College of Agriculture Date 8/7/02
   Department/Division offering course Agronomy Department

2. Proposed designation and Bulletin description of this course
   a. Prefix and Number PLS 514
   b. Title* Grass Taxonomy and Identification
      *NOTE: If the title is longer than 24 characters (including spaces), write
      A sensible title (not exceeding 24 characters) for use on transcripts Grass Taxonomy & ID
   c. Lecture/Discussion hours per week 2
   d. Laboratory hours per week 2
   e. Studio hours per week
   f. Credits 3
   g. Course description
      Overview of the grass family, concentrating on taxonomic issues and
      identification skills for ~200 species (turf, forages, weeds, etc.)
   h. Prerequisites (if any)
      PLS 220 or permission from instructor
   i. May be repeated to a maximum of 0

4. To be cross-listed as N/A
   Prefix and Number
   Signature, Chairman, cross-listing department

5. Effective Date Spring 2003 (semester and year)

6. Course to be offered
   ☑ Spring
   ☐ Fall
   ☐ Summer

7. Will the course be offered each year?
   (Explain if not annually)
   ☑ Yes ☐ No

8. Why is this course needed?
   The grass family is arguably the most important plant group for humans,
   yet is not given much coverage in other plant identification courses.

9. a. By whom will the course be taught? Dr. Tim Phillips
   b. Are facilities for teaching the course now available?
      If not, what plans have been made for providing them?
      ☑ Yes ☐ No

ORIGINAL
APPLICATION FOR NEW COURSE

10. What enrollment may be reasonably anticipated? 20

11. Will this course serve students in the Department primarily? □ Yes □ No
   Will it be of service to a significant number of students outside the Department? □ Yes □ No
   If so, explain.
   NRC, Biology and Forestry students may choose to take this class.

12. Will the course serve as a University Studies Program course? □ Yes □ No
    If yes, under what Area?

13. Check the category most applicable to this course
   □ traditional; offered in corresponding departments elsewhere;
   □ relatively new, now being widely established
   ☑ not yet to be found in many (or any) other universities

14. Is this course applicable to the requirements for at least one degree or certificate at the University of Kentucky? □ Yes ☑ No

15. Is this course part of a proposed new program:
    If yes, which?
    □ Yes ☑ No
    If yes, explain the change(s) below

16. Will adding this course change the degree requirements in one or more programs?* □ Yes ☑ No
    If yes, explain the change(s) below

17. Attach a list of the major teaching objectives of the proposed course and outline and/or reference list to be used.

18. If the course is a 100-200 level course, please submit evidence (e.g., correspondence) that the Community College System has been consulted.

19. Within the Department, who should be contacted for further information about the proposed course?
   Name Tim Phillips
   Phone Extension 7-2937

*NOTE: Approval of this course will constitute approval of the program change unless other program modifications are proposed.
Signatures of Approval:

[Signatures]

Department Chair

Dean of the College

*Undergraduate Council

*University Studies

*Graduate Council

*Academic Council for the Medical Center

*Senate Council (Chair)

*If applicable, as provided by the Rules of the University Senate

Date of Notice to the Faculty

Date

Date of Notice to University Senate

Date

ACTION OTHER THAN APPROVAL
Course Description

This course is a practical, comprehensive overview of Poaceae (or Gramineae), the grass family. We will discuss several taxonomic issues in the grasses, but the main goal of the course is to strengthen identification skills. We will learn how to identify grasses at various stages of growth, as well seed of many species, with an emphasis on species found or grown in Kentucky.

Learning Objectives

1. To become familiar with the terminology of grass morphology and anatomy.

2. To learn to use keys in the identification of unknown grass specimens, at several stages of growth.

3. To learn to identify many species of grasses, covering the range of turf, forage, native and weedy species, as well as ornamental and cereal crop species. Skills will be exercised both in the lab and on field trips.

References

We will use the book *How to Identify Grasses and Grasslike Plants*, by H. D. Harrington. It should be available from the bookstores for under $20, and is a good general reference book for grass terminology. We will also use numerous handouts from other sources, such as botanical manuals. I have a good collection of plant manuals, and other books on grasses, which can be borrowed upon request.

Management of Course

Lecture: Tuesdays 3:00-4:50 pm in A6 Ag North.
Laboratory: Thursdays 3:00-4:50 pm in A6 and field trips.

Grading

Lecture (hour) exams: 3 @ 10% 30%
Lab exams: 6 @ 5% 30%
Genus report (3-5 pages) 10% (DUE BY APRIL 17)
Final exam: 30% (25% lecture material,
75% comprehensive plant identification)

The final course grade will be based on the usual 90-100=A, 80-89=B, 70-79=C scale.
Lecture Schedule  SPRING 2003

Thurs. January 16  Introduction and course overview
Tues. Jan. 21  Taxonomy of plants
Thurs. Jan. 23  Grass systematics- History
Tues. Jan. 28  Terminology of grasses -seed and seedling
Thurs. Jan. 30  " -vegetative
Tues. Feb. 4  " -flowering
Thurs. Feb. 6  Exam 1
Tues. Feb. 11  Pooideae subfamily: Tribes: Avenae
Thurs. Feb. 13  Avenae
Tues. Feb. 18  Bromeeae and Meliceae
Thurs. Feb. 20  Poeae
Tues. Feb. 25  Poeae
Thurs. Feb. 27  Stipeae and Triticeae
Tues. March 4

Thurs. March 6  Exam 2
Tues. March 11  Centothecoideae and Arundinoideae subfamilies
Thurs. March 13  Aristideae
                    Centothceae
Week of March 17-22
Tues. March 25  No class- Spring Break
Thurs. March 27  Bambusoideae subfamily  Bambuseae, Brachyeltraeae
Tues. April 1    Diarrheneae and Oryzeeae
Thurs. April 3   Chloridoideae subfamily  Cynodonteae
                                        Eragrostideae

Tues. April 8  Exam 3
Thurs. April 10  Review of subfamilies so far, introduction of Panicoideae
Tues. April 15  Panicoideae subfamily  Andropogoneae
Thurs. April 17  Genus reports due
Tues. April 22  "
Thurs. April 24  Paniceae
Tues. April 29  "
Thurs. May 1 Review of course, prepare for final

Fri. May 8, 3:30 pm Final Exam (May change, depending on when we meet for class)
Lab Meetings for PLS 597-001, Grass Taxonomy and Identification  Spring 2003

Thurs. January 23  Introduction and baseline ID quiz
Thurs. Jan. 17   Examples of plants to illustrate terminology
Thurs. Jan. 24   Pooideae subfamily

Thurs. Jan. 31  “
Thurs. Feb. 7   “
Thurs. Feb. 14  (Campus walks when weather permits)
Thurs. Feb. 21

Thurs. Feb. 28
Thurs. March 7  Centothecoideae and Arundinoideae subfamilies

Week of March 11-15  No class- SPRING BREAK

Thurs. March 21  Bambusoideae subfamily
Thurs. March 28  Chloridoideae subfamily

Thurs. April 4
Thurs. April 11  Panicoideae subfamily  (GENUS REPORTS DUE)
Thurs. April 18
Thurs. April 25  Review for final

Lab field trips will be announced in advance. Some will be within walking distance of Ag North, but others will be to the Spindletop Agronomy Research farm or within a similar driving distance (McConnell Springs, Adena Park, etc.).

Lab exams will be short, identification / recognition-oriented, and the top six scores will be used for computing your course grade.