

APPLICATION FOR NEW COURSE

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

May be repeated to a maximum of 0 (if applicable)

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 Fall Spring Summer

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

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? Yes No
If not, what plans have been made for providing them?

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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?
If so, explain. Yes No

NRC, Biology and Forestry students may choose to take this class.

Will the course serve as a University Studies Program course? Yes No

If yes, under what Area? _____

12. 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

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

14. Is this course part of a proposed new program:
If yes, which? Yes No

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

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

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

18. 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.

Print Form

Clear Form

Signatures of Approval:

John Batt

Department Chair

Joe T. ...

Dean of the College

8/21/02

Date

12/19/02

Date

UNDERGRADUATE COUNCIL

*Undergraduate Council

Date of Notice to the Faculty

FEB 5 2003

Date

*University Studies

Date

*Graduate Council

Date

*Academic Council for the Medical Center

Date

*Senate Council (Chair)

Date of Notice to University Senate

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

ACTION OTHER THAN APPROVAL

PLS 514
Grass Taxonomy and Identification
University of Kentucky
Spring 2003

Instructor: Tim Phillips
Office: N222K Ag North
Phone: 257-2937
Email: tphillip@uky.edu

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	Bromeae and Meliceae
Thurs. Feb. 20	Poeae
Tues. Feb. 25	Poeae
Thurs. Feb. 27	Stipeae and Triticeae
Tues. March 4	Exam 2
Thurs. March 6	Centothecoideae and Arundinoideae subfamilies
Tues. March 11	Aristideae
Thurs. March 13	Centotheceae
Week of March 17-22	No class- Spring Break
Tues. March 25	Bambusoideae subfamily Bambuseae, Brachyeltreae
Thurs. March 27	Diarrheneae and Oryzeae
Tues. April 1	Chloridoideae subfamily Cynodonteae
Thurs. April 3	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.