APPLICATION FOR CHANGE IN EXISTING COURSE: MAJOR and MINOR

1. Submitted by the College of: Agriculture Date: 03/03/2008

Department/Division offering course: Department of Forestry

2. What type of change is being proposed? ☑ Major ☐ Minor*

*See the description at the end of this form regarding 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 Senate Council chair deems the change not to be minor, the form will be sent to the appropriate Council for normal processing and an email notification will be sent to the contact person.

PROPOSED CHANGES

Please complete all "Current" fields.

Fill out the "*Proposed*" field only for items being changed. Enter N/A if not changing.

Circle the number for each item(s) being changed. For example: (6.)

3. Current prefix & number: FOR 360 *Proposed prefix & number:* FOR 260

4. Current Title: Wood Technology and Utilization

Proposed Title†: Forest Products and Wood Science

†If title is longer than 24 characters (including spaces), write a sensible title (24 characters or less) for use on transcripts:
Forest Prod. Wood Sci.

5. Current number of credit hours: 4 *Proposed number of credit hours:* N/A

6. Currently, is this course repeatable? YES ☐ NO ☑ If YES, current maximum credit hours: _____

Proposed to be repeatable? *YES* ☐ *NO* ☑ *If YES, proposed maximum credit hours:* _____

7. Current grading system: ☑ Letter (A, B, C, etc.) ☐ Pass/Fail

Proposed grading system: ☑ *Letter (A, B, C, etc.)* ☐ *Pass/Fail*

8. Courses must be described by at least one of the categories below. Include the number of actual contact hours per week for each category, as applicable.

Current:

(☐ CLINICAL ☐ COLLOQUIUM ☐ DISCUSSION 2 LABORATORY 3 LECTURE

(☐ INDEPEND. STUDY ☐ PRACTICUM ☐ RECITATION ☐ RESEARCH ☐ RESIDENCY

(☐ SEMINAR ☐ STUDIO ☐ OTHER – Please explain: _____

Proposed:

(☐ *CLINICAL* ☐ *COLLOQUIUM* ☐ *DISCUSSION* 2 *LABORATORY* 3 *LECTURE*

☐ *INDEPEND. STUDY* ☐ *PRACTICUM* ☐ *RECITATION* ☐ *RESEARCH* ☐ *RESIDENCY*

☐ *SEMINAR* ☐ *STUDIO* ☐ *OTHER – Please explain:* _____

9. Requested effective date (term/year): Fall / 2010

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10. Current teaching method: ☑ N/A ☐ Community-Based Experience ☐ Service Learning Component ☐ Both

Proposed teaching method (if applicable): ☐ *Community-Based Experience* ☐ *Service Learning Component* ☐ *Both*

11. Current cross-listing: ☑ N/A

Prefix and Number _____ NAME of current cross-listing DEPARTMENT _____

a. Proposed – REMOVE the current cross-listing: ☐

b. Proposed – ADD a cross-listing: _____ _____

Prefix and Number *Signature of chair of proposed cross-listing department*

12. Current prerequisites:

BIO 106 and 107, PHY 151, or consent of instructor

Proposed prerequisites:

None

13. Current Bulletin description:

General anatomy of wood and study of its properties. Identification of major species based on microscopic and macroscopic features. Sources, processing, and utilization of wood products.

Proposed Bulletin description:

An examination of basic material properties of wood, methods by which it is used, and issues and economic conditions in which domestic and global wood markets operate. Concepts covered include species identification, chemical and mechanical properties and their effect on utilization, utilization technologies and their linkage to silvicultural practices, and affiliated issues such as recycling, product certification, environmental concerns, and alternative products.

14. What has prompted this change?

This course has been revised to incorporate the broad spectrum of forest products and not just timber products. The course title has been modified to reflect this change.

15. If there are to be significant changes in the content or teaching objectives of this course, indicate changes:

Student learning outcomes have been modified to address the forest product industry and the management practices for various forest products. See the syllabus (FOR 260) for a detailed listing of the proposed student learning outcomes and content.

16. Please list any other department that could be affected by the proposed change:

_____

17. Will changing this course change the degree requirements for ANY program on campus? ☑ YES ☐ NO

If YES‡, list below the programs that require this course:

Undergraduate Forestry Program

‡ In order for the course change to be considered, program change form(s) for the programs above must also be submitted.

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18. Is this course currently included in the University Studies Program? ☐ Yes ☑ No

19. ☐ Check box if changed to 400G or 500. If changed to 400G- or 500-level, *you must include a syllabus showing differentiation* for undergraduate and graduate students by (i) requiring additional assignments by the graduate students; and/or (ii) the establishment of different grading criteria in the course for graduate students. (See *SR 3.1.4)*

20. Within the department, who should be contacted for further information on the proposed course change?

Name: Jim Ringe Phone: 859-257-7594 Email: jringe@uky.edu

21. Signatures to report approvals:

March 3, 2008	Steven H. Bullard /		
DATE of Approval by Department Faculty	printed name	Reported by Department Chair	signature
9/29/2008	Michael Mullen /		
DATE of Approval by College Faculty	printed name	Reported by College Dean	signature
3/3/2009	Sharon Gill /		
*DATE of Approval by Undergraduate Council	printed name	Reported by Undergraduate Council Chair	signature
	/		
*DATE of Approval by Graduate Council	printed name	Reported by Graduate Council Chair	signature
	/		
*DATE of Approval by Health Care Colleges Council (HCCC)	printed name	Reported by Health Care Colleges Council Chair	signature
*DATE of Approval by Senate Council		Reported by Office of the Senate Council	
*DATE of Approval by the University Senate		Reported by the Office of the Senate Council	

Digitally signed by Sharon Gill
DN: cn=Sharon Gill, o, ou=Undergraduate Education, email=sgill@uky.edu, c=US
Date: 2009.03.12 16:00:09 -04'00'

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

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Excerpt from *University Senate Rules:*

SR 3.3.0.G.2: **Definition.** A request may be considered a minor change if it meets one of the following criteria:

a. change in number within the same hundred series;
b. editorial change in the course title or description which does not imply change in content or emphasis;
c. a change in prerequisite(s) which does not imply change in content or emphasis, or which is made necessary by the elimination or significant alteration of the prerequisite(s);
d. a cross-listing of a course under conditions set forth in *SR 3.3.0.E*;
e. correction of typographical errors.

Course Syllabus

FOR 260

Forest Products and Wood Science

Class Period

Lecture: 3 hours per week
Lab: 2 hours per week

Instructor

Dr. J. M. Ringe
Room 108 T.P. Cooper Building
859-257-7594
jringe@uky.edu

COURSE OVERVIEW

Course Description

An examination of basic material properties of wood, methods by which it is used, and issues and economic conditions in which domestic and global wood markets operate. Concepts covered include species identification, chemical and mechanical properties and their effect on utilization, utilization technologies and their linkage to silvicultural practices, and affiliated issues such as recycling, product certification, environmental concerns, and alternative products. Laboratory, two hours per week.

Student Learning Outcomes

At the end of this course, the student will be able to demonstrate the following skills.

1. Describe basic concepts of wood science including chemical and mechanical properties of wood and wood identification. Use computers to perform calculations related to basic wood science.
2. When given a tree or stand, you will be able to determine which mill process and end product would be appropriate taking into consideration the impact of silvicultural practices, tree health (fire, insects, weather) and cultural practices (stock, treatment, fertilization, water) on wood and product quality.
3. Explain issues surrounding the wood product industry including market and economic conditions, wood technologies, recycling, forest product certification, environmental concerns, and public perception of certain forest products.
4. Describe terms associated with the wood product industry and why different woods are used in wood product processes.

5. Discuss state and regional forest product industry and analyze how global markets may affect the region's forest products industry.
6. Describe various forest products, including agroforestry products, and analyze how different management practices affect the types of forest products in a given area.

Grading Procedures – Assignments, Grading Criteria, Letter Grades

Lecture Exam I	15%
Lecture Exam II	15%
Lecture Final	20%
Lab Quiz I	10%
Lab Quiz II	10%
Lab Quiz III	10%
Lab Final	20%

Note: Lecture exams, including the final, are <u>not</u> cumulative.
Lab quizzes, including the final <u>are</u> cumulative.

<u>Letter Grades</u>
A: $\geq 90\%$
B: $\geq 80\%$ and $< 90\%$
C: $\geq 70\%$ and $< 80\%$
D: $\geq 60\%$ and $< 70\%$
E: $< 60\%$

Course Outline

Week 1 – Introduction and Macroscopic Character of Wood

Week 2 – Composition of Wood Cells

Week 3 – Softwood Structure

Week 4 – Hardwood Structure

Week 5 – Juvenile and Reaction Wood

Week 6 – Wood and Water

Week 7 – Specific Gravity and Density

Week 8 – Deterioration

Week 9 – Mechanical Properties

Week 10 – Silviculture and Wood Quality

Week 11 – Lumber and Plywood

Week 12 – Composites and Fiber Products

Week 13 – Wood Markets – Regional, National, and Global

Week 14 – Forest Products

COURSE POLICIES

Attendance and Excused Absences

Lectures: Attending lectures is required (and expected) of all students. Skipping class is not acting in your best interest, will most likely adversely affect your grade, is disrespectful of your instructor, and is not professional behavior.

Lab Sessions: Attending lab sessions is required of all students. Missing labs will cause you extreme difficulty on the lab exams. Make-up labs will be given only for excused absences.

Exams: Make-up exams and quizzes (Lab or Lecture) will be given only to students who miss an exam as a result of excused absences. In all other circumstances, a grade of 0 (zero) will result for the missed exam or quiz.

Academic Integrity, Cheating and Plagiarism

Cheating of any form, including plagiarism, will not be tolerated. Cheating will be dealt with in accordance with University regulations. (See http://www.uky.edu/Student Affairs/Code/)

Professional Preparation

This course helps prepare you for your professional career. You are expected to attend class, be on time, participate in class discussions, and be respectful of your instructor and fellow classmates.

Disability Statement

Students with a disability that need classroom or exam accommodations should contact the Disability Resource Center, 257-2754, room 2 Alumni Gym, jkarnes@uky.edu .