DATE SUBMITTED

DATE DICC APPROVED 4/27/10

DATE LAST REVIEWED Oct. 7, 2009

CATALOG NO. AGBS 107

COURSE INFORMATION FORM

DISCIPLINE
Agribusiness

COURSE TITLE
Deciduous Trees and Shrubs

CR.HR. 3 LECT HR. 3 LAB HR. ________ CLIN/INTERN HR. ________ CLOCK HR. ________

CATALOG DESCRIPTION

A practical study of woody plants, shade trees, ornamental and flowering trees, deciduous and flowering shrubs indigenous to the Midwest designed for the practitioner in agribusiness. Course provides an in-depth study of environmental adaptability, cultural practices, diseases, pests and seasonal effects in the Midwest.

PREREQUISITES

None

EXPECTED STUDENT OUTCOMES IN THE COURSE (ESO)

Upon completion of this course, the student will be able to:

1. Identify 140 deciduous trees and shrubs by Latin and common names.
2. Distinguish appropriate plant materials for differing environmental conditions.
3. Chart plant materials for sequential flowering throughout the growing season.
4. Identify disease and insect infestation and environmental concerns and their remedies.
5. Demonstrate proper techniques for planting, fertilization, and pruning.
GENERAL EDUCATION OUTCOMES (ESO)

Specify which general education outcomes, if any, are substantially addressed by the course. Numbers in parentheses identify the Expected Student Outcomes linked to the specific General Education Outcome.
PROGRAM-LEVEL OUTCOMES

CAREER AND TECHNICAL EDUCATION PROGRAM OUTCOMES
Specify which Career and Technical program outcomes, if any, are substantially addressed by the course by completing the “Career and Technical Education template” to show the relationship between course and program outcomes to assessment measures.

1. Student will demonstrate skills necessary to identify and recommend ornamental plant materials appropriate for use in regional landscaping, including some native to Missouri.
2. Students will develop and demonstrate the ability to communicate clearly and effectively with others.
3. Students will apply essential math skills and use formulas appropriate in landscape projects.
4. Students will increase familiarity with appropriate resources to advance knowledge and network within their field of employment or as entrepreneurs.

CLASS-LEVEL ASSESSMENT MEASURES
Student accomplishment of expected student outcomes will be assessed using the following measures. (Identify which measures are used to assess which outcomes.)

1. Weekly quizzes (1)
2. Exams (2-4)
3. Field demonstration (5)
COURSE OUTLINE FORM

DISCIPLINE: Agribusiness

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Individual instructors may order this outline as fits the needs of their individual courses. In addition, they may place more emphasis on some areas than on others. What is assured is that this particular list is covered in the course. Other topics may be added to a course as the instructor sees fit, and as time and interest allow. An *asterisk can be used to mark an item as optional.

I. Plant nomenclature
   A. Comparisons of common names and some regional variations to scientific names
   B. Explanation and discussion of international scientific names system using genus, species and family names
   C. Examination of examples of cultivar names and their significance

II. Introduction to woody plant morphology and terms important in identification process
   A. Examination of characteristics of deciduous and evergreen plants
   B. Examination of leaf, stem, bud, flower, and fruit characteristics
   C. How to use a dichotomous key for woody plant identification

III. Examination and discussion of woody ornamental plants commonly used in Midwest landscapes
   A. Large to medium shade trees
   B. Medium to small flowering ornamental trees
   C. Large, medium, and small shrubs
   D. Discussion of winter hardness zones, heat zones, and microclimates

IV. Criteria for matching the right plant to the right place
   A. Plants best suited for specific site conditions such as sun, shade, dry, and poorly draining locations
   B. Aesthetic principles influencing landscape preferences
   C. Common problem-solving issues including privacy screening and rates of growth

V. Correct planting techniques, watering and other maintenance
   A. Site evaluation and preparation
   B. Proper handling of balled and burlapped, container grown, and bare root plant materials
   C. When and how to stake newly installed plants
   D. Watering, fertilizing, and pruning according to current industry standards
   E. Diagnosing common problems
   F. Developing familiarity with local resources for additional help