DATE SUBMITTED

DATE DICC APPROVED: 4/27/10  
DATE LAST REVIEWED: Oct. 7, 2009

CATALOG NO: AGBS 206

COURSE INFORMATION FORM

DISCIPLINE: Agribusiness

COURSE TITLE: Advanced Landscape Design and Maintenance

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CATALOG DESCRIPTION

Planning and landscape design. Installation and maintenance of various plants. The commercial process of bidding and contracting. Advanced utilization of computer aided design software program

PREREQUISITES

AGBS 106

EXPECTED STUDENT OUTCOMES IN THE COURSE (ESO)

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

1. Compute and estimate a bid proposal for a specialized project that encompasses the following: Needs assessment, design, design time, estimated materials cost, installation, annual maintenance cost and any required permits.

2. Produce a landscape design that is indigenous to regional/environmental landscape conditions and available plant materials.

3. Demonstrate design knowledge of proper plant selection in conjunction with environmental adaptability, pest and disease resistance and aesthetic attributes.

4. Produce site analysis of a heavy-use turf area and the appropriate design for this growing environment.
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. Written report (1, 3, 4)
2. Design project (2, 3, 4)
3. Exam (1, 3)
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. Landscape design process
   A. Site evaluations and client interviews
   B. Base plans, functional and concept plan development, and preparation of proposals

II. Site preparation
   A. Addressing drainage and grading issues
   B. Preparing raised beds and berms
   C. Planning and construction of retaining walls
   D. Irrigation and water conservation options

III. Proper installation techniques
   A. Planting balled and burlapped trees, shrubs and container-grown plant materials
   B. Selection and installation of landscape mulches
   C. Selection and installation of edging materials

IV. Hardscape surface treatments
   A. Walkway and patio design
   B. Selection of materials and construction techniques
   C. Design and construction of wooden deck

V. Functional and aesthetic features
   A. Fences, gates, walls, trellises, and arbors
   B. Landscape seating, furniture, gazebos, decks, and sheds
C. Landscape containers, lighting, and statuary
D. Lighting

VI. Water features
   A. Ponds and pools
   B. Fountains and pondless water features
   C. Rain gardens and dry stream beds

VII. Landscape ornaments
   A. Containers
   B. Statuary and other objects