

CATALOG INFORMATION

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Dept & Nbr: AGR 147 Title: GREENHOUSE PROJECTS

Full Title: Greenhouse Projects

Units	Course Hours	Per Week	Nbr of Weeks	Course Hours	Total
Max: 3.0	Lecture	2.0	17	Lecture	34.0
Min: 1.0	Lab	3.0		Lab	51.0
	Contact DHR	0.0		Contact DHR	0.0
	Contact Total	5.0		Contact Total	85.0
	Non-contact DHR	0.0		Non-contact DHR	0.0

Title 5 Category: 01 AA Degree Applic
Grading: GC Credit course for grade or CR/NC
Repeatability: 02 3 ENROLLMENTS
Also listed as:

CATALOG DESCRIPTION:

Selection of a greenhouse project which addresses one or more topics in horticulture, such as carnation production, soil or fertilization trials, pest management, and bedding plant production. Instruction includes selection of the project, budgeting, propagation and management, recordkeeping, and marketing (if applicable).

PREREQUISITES:

COREQUISITES:

RECOMMENDED PREPARATION:

Completion of AGR 140.

LIMITS ON ENROLLMENT:

SCHEDULE OF CLASSES INFORMATION:

Recommended: Completion of AGR 140.
Will provide the student with relevant experience in nursery production (propagation methods, materials, and marketing) through field trips, classroom lecture, and a hands-on student project which culminates with a plant sale in May. (Grade or CR/NC) (Repeat Code 2)
Transfer Credit: CSU.

ARTICULATION and CERTIFICATE INFORMATION

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ASSOCIATE DEGREE:	Effective:	Inactive:
Area:		
CSU GE:	Effective:	Inactive:
Transfer area:		
IGETC:	Effective:	Inactive:
Transfer area:		

CSU TRANSFER: TRANSFERABLE Effective: FALL 1981 Inactive:

UC TRANSFER: Effective: Inactive:

CAN:

CERTIFICATE APPLICABLE: C CERTIFICATE APPLICABLE COURSE

APPROVAL AND DATES

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Version 01 Submitted by: JIM XEROGEANES Date: 06/01/1981
Department approved: Date:
Curriculum approved: 06/01/1981 Version approved: 06/01/1981
Prerequisites approved: 10/27/1998 Last reviewed: 10/27/1998
Term effective: FALL 1999 Last taught: SPRING 2007 Inactive:

COURSE CONTENT

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OUTCOME AND OBJECTIVES:

1. Develop a project plan based on results of research and feasibility study.
2. Prepare a line-item budget from a project cost analysis.
3. Operate and maintain project, making adjustments as needed or as feasible, as measured by instructor critique and self-analysis.
4. Demonstrate horticulturally sound management principles for duration of project.
5. Develop and maintain accurate records and logs.
6. Develop and enterprise plan to market product (if applicable)

TOPICS AND SCOPE:

1. Project Selection
 - a. Determination of goals/objectives
 - b. Feasibility study
 - c. Development of project plan (tasks, timelines, budget)
2. Budget and Cost Analysis
 - a. Equipment and materials
 - b. Overhead
 - c. Labor
 - d. Sales and marketing
 - e. Shipping and delivery
4. Materials and Supplies Selection
 - a. Plants
 - b. Seeds
 - c. Containers
 - d. Tools and equipment
 - e. Fertilizers
 - f. Insecticides
4. Soil selection and Testing
 - a. Seeding media
 - b. Rooting media
 - c. Testing (nutrients, pH, water-holding capacity)
5. Project Production and Research
 - a. Growing medium preparation
 - b. Establishment of plants
 - c. Plant maintenance (watering, fertilization, pruning)
 - d. Plant harvesting
6. Management Practices
 - a. Greenhouse safety
 - b. Environmental controls (heating, cooling, lights)

- c. Weed, insect and disease control
- d. Records and recordkeeping
- 7. Recordkeeping
 - a. Business records
 - b. Budget management
 - c. Technical logs
 - d. Plot test records
- 8. Sales and Marketing (if applicable)
 - a. Advertising
 - b. Display
 - c. Pricing and pricing policies
 - d. Promotional sales techniques
 - e. Job estimations
 - f. Governmental regulations and licensing requirements
 - g. Quality control
 - h. Shipping and delivery

ASSIGNMENTS:

READING ASSIGNMENTS:

Students will be required to read selected chapters in text, as well as related technical agricultural publications such as Grower Talks, Pacific Nurserymen and U.C. Publications.

WRITING ASSIGNMENTS:

1. Four (4) page research paper on the selected project.
2. Project records and logs.
3. Final project analysis (1-2 pages)

OUTSIDE ASSIGNMENTS:

1. Make an enterprise plan and keep records of the selected project.
2. Read Text, publications and other handouts.
3. Prepare project analysis.
4. Write a 4-page research paper on related topic.

ASSIGNMENTS THAT DEMONSTRATE CRITICAL THINKING:

Prepare project analysis, which includes a comparison of budget with actual expenditures, noting changes during operating period, reasons for differences, any failures that occurred and suggestions for improved future projects.

METHOD OF INSTRUCTION:

Lecture, demonstration, oral reports, critique of management practices.

METHODS OF EVALUATION:

1. Midterm and final (true-false, multiple choice, short answer)
2. Project analysis (1-2 pages)
3. Enterprise plan (if applicable)
4. Research paper (4 pages)
5. Oral report on greenhouse project
6. Unit quizzes (true-false, multiple choice)

BASIS FOR GRADING:

The assignment of a grade is based on the level of achievement of the outcomes and objectives of the course outline and is reflected in quantifiable terms in the course syllabus.

REPRESENTATIVE TEXTBOOKS:

Grower Talks on Retailing, 1994; GrowerTalks