

BIOLOGY 598J/ FALL 2006
Economic Botany

PROFESSOR: DR. H. E. SHEALY, JR.
OFFICE: ROOM 111D, SCIENCE BUILDING
OFFICE HOURS: BY APPOINTMENT
COURSE CREDIT: THREE CREDIT HOURS
LECTURE/LAB TT 9:25 – 10:40 AM, TT 107 SCI BLDG
PHONE/E-MAIL: 803-641-3404 /HSHEALY@USCA.EDU

COURSE GOALS AND OBJECTIVES: Botany like any other subject can be studied from many different points of view. In this course we will examine the how plants have impacted humans from an economic perspective. We will unavoidably also examine many of the cultural aspects of plants as well. The simple truth is human have always been totally dependent upon plants and the products that they produce. The three things that are immediately essential for humans to maintain life are oxygen, water, and food. Plants are directly responsible for two of those three. We eat them, we drink extracts from them, we use them medicinally, we use them as fuel, we make shelters with them, we wear them, and we make weapons with them, and we use them to court and poison acquaintances depending which way our affections are running. Since the beginnings of human history we have used plants ceremonially at all of our rights of passage. In this course we will work to achieve the course objectives listed below.

- To survey the plants that are economically important to humans
- To learn the diverse human uses of plants and plant products
- To examine the taxonomic differences of plants used by humans
- To become more aware of the plants in your daily life
- To examine where economically significant plants are found geographically and how they came into use by humans
- To look at the cultural uses of plants by humans.

TEXT: ECONOMIC BOTANY, 3RD EDITION BY SIMPSON AND OGORZALY. PUBLISHED BY McGRAW HILL, 2001.

REQUIRED SUPPLIES: SCANTRON SHEETS MAY BE OBTAINED FROM THE USCA BOOKSTORE FOR HOUR EXAMS.

METHODS OF EVALUATION: YOU WILL BE OBSERVED IN CLASS DISCUSSIONS, QUESTIONS, AND OTHER CLASSROOM INTERACTIONS. THERE WILL BE NUMEROUS OPPORTUNITIES FOR YOU TO SPEAK AND WRITE ABOUT PLANTS...**CLASS DISCUSSIONS AND QUESTIONS ARE ENCOURAGED!** THERE WILL BE THREE HOUR EXAMS, FOUR ARTICLES, AND A COMPREHENSIVE FINAL EXAM.

GRADE COMPONENTS:

LECTURE

- THREE HOUR EXAMS.....66%
- FINAL EXAM.....22%
- FOUR ARTICLES.....12%

GRADING SCALE:

100-93 = A; 92-88 = B+; 87-81 = B; 80-76 = C+; 75-70 = C; 69-65 = D+; 64-60 = D; 59-0 = F.

JOURNAL ARTICLES: THIS COMPONENT OF THE CLASS WILL CONSIST OF SELECTING, READING, AND WRITING A SUMMARY OF ONE JOURNAL OR MAGAZINE ARTICLE EACH MONTH. I WILL GIVE MORE INFORMATION ABOUT THIS ASSIGNMENT DURING OUR CLASS MEETINGS. THE ARTICLES WILL BE DUE NO LATER THAN THE LAST CLASS MEETING OF EACH MONTH, EXCEPT AUGUST.

MAKE-UP EXAMS: THERE ARE NO MAKE-UP EXAMS. SHOULD YOU MISS AN EXAM FOR A DOCUMENTED EXCUSABLE REASON; AN ALTERNATE EXAM MAY BE GIVEN DURING THE LAST WEEK OF CLASSES. ONLY ONE EXAM WILL BE TREATED IN THIS MANNER; ANY OTHER MISSED EXAMS WILL BE COUNTED AS A ZERO.

ATTENDANCE: STUDENTS SHOULD REFER TO THE CURRENT USCA STUDENT HANDBOOK OR USCA BULLETIN REGARDING THE ATTENDANCE POLICY. FOR THIS CLASS YOU ARE ALLOWED **THREE** UNEXCUSED ABSENCES OF THE REGULARLY SCHEDULED CLASS/LAB MEETINGS. IF YOU HAVE MORE THAN THREE UNEXCUSED ABSENCES, I MAY ASSIGN THE GRADE OF "F" FOR THE COURSE. I TAKE ROLL FOR EACH CLASS. THEREFORE, I URGE YOU TO ATTEND ALL CLASSES AND TO BE ON TIME.

DISABILITY STATEMENT: IF YOU HAVE A PHYSICAL, PSYCHOLOGICAL, AND/OR LEARNING DISABILITY WHICH MIGHT AFFECT YOUR PERFORMANCE IN THIS CLASS, PLEASE CONTACT THE OFFICE OF DISABILITY SERVICES, 126A B&E, (803) 641-3609, AS SOON AS POSSIBLE. THE DISABILITY SERVICES OFFICE WILL DETERMINE APPROPRIATE ACCOMMODATIONS BASED ON MEDICAL DOCUMENTATION.

WRITING CENTER: USCA PROVIDES A WRITING CENTER LOCATED ON ROOM 201 OF THE H&SS BUILDING. IF YOU NEED EXTRA ASSISTANCE ON ANY WRITING ASSIGNMENT FOR THIS OR ANY OTHER CLASS THAT YOU ARE TAKING, PLEASE TRY THE WRITING CENTER.

WRITING PORTFOLIO: REMEMBER THAT WRITTEN WORK THAT YOU COMPLETE FOR THIS CLASS CAN BE INCLUDED IN YOUR WRITING PORTFOLIO REQUIREMENT. FOR FURTHER INFORMATION ON THE WRITING PORTFOLIO REQUIREMENT, PLEASE CONSULT YOUR CURRENT USCA BULLETIN.

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TENTATIVE LECTURE SCHEDULE

WEEK	DATE	TOPIC	CHAPTER
1	24 AUG	Introduction to Economic Botany	1
2	29 31	Plants and their Manipulation by People “	1 1
3	5 SEPT 7	Origins of Agriculture ”	2 2
4	12 14	Fruits and Nuts of Temperate Regions Fruits and Nuts of Warm Regions	3 4
5	19 21	“ Cereal Grains and Forage Grasses	4 5
6	26 28	“ Hour Exam I	5
7	3 OCT 5	Legumes “	6 6
8	10 12	Foods from Leaves, Stems, and Roots “	7 7
9	17 18 19	Spices, Herbs, and Perfumes LAST DAY TO DROP WITH A “W” FALL BREAK HOLIDAY	8
10	24 26	Spices, Herbs, and Perfumes HOURLY EXAM II	8
11	31 2 NOV	Vegetable Oils and Waxes Hydrogels, Elastics, Latexes, and Resins	9 10
12	7 9	ELECTION DAY ...VOTE! Medicinal Plants	11
13	14 16	Psychoactive Drugs and Poisons from Plants Stimulating Beverages	12 13
14	21 23	Alcoholic Beverages THANKSGIVING HOLIDAY	14
15	28 30	Fibers, Dyes, and Tannins HOURLY EXAM III	15
16	5 DEC 7	Wood, Cork, and Bamboo LAST CLASS /REVIEW Highlights of the last three Chapters 17-19	16
17	9/10 14	READING DAYS FINAL EXAM – THURSDAY at 8 AM	

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