

BIO 364
HUMAN USES OF PLANTS

Section 001

Fall 2011

Dr. Michael H. Renfroe
303 Burruss Hall
568-6617
renfromh@jmu.edu

Lab: 338 Burruss Hall
Office Hours: W, F 9-11
T 10-11
and by appointment

Course content: This course is about the commercial uses of plants and plant products, and the importance of biodiversity and natural habitats.

Course objectives: to evaluate the ecological roles of plants; to assess plant adaptations in the context of species survival; to consider origins of agriculture; to understand methods of artificial selection and plant propagation; to appreciate the role of plants for food, medicines, fibers, and ornamental uses; and to examine the prospects for future food production and the protection of biodiversity.

BIO 364 URL: <http://csm.jmu.edu/biology/renfromh/bio364/>
Website includes instructions for homework assignments and their grading rubrics.

Textbook: Economic Botany: Plants in Our World. Third edition.
B.B. Simpson and M.C. Ogorzaly. McGraw Hill.

Attendance: Students will sign an attendance sheet for each class. Although class attendance is not required, attendance is expected of all students. I will supplement the text with material and demonstrations presented in lecture and anyone not in attendance risks missing information which one may be expected to know for examinations. Attendance sheets will be kept on file and used if needed as an indicator of class participation.

Grading: Grades will be based on three class exams, a comprehensive final exam, and two homework assignments (paper 10%, food listings 5%). The course grade will be computed as follows:

Test 1	20%
Test 2	20%
Test 3	20%
Assignments	15%
Final Exam	25%

Make-up exams: Missed examinations may be taken late only with permission from the instructor. Missed exams will not be treated lightly, so do not abuse this provision. Make-up exams may consist of essay questions designed to allow you to demonstrate your proficiency of the subject matter.

Class Conduct:

All students are bound by the JMU Honor Code. All students are expected to make an effort to be in class on time and ready for class to start. All students are expected to be respectful of others in the classroom and help create a classroom atmosphere conducive to learning. Cell phone use or use of other electronic communication devices, including texting, instant messaging, or other forms of communication to any other person, inside or outside of the classroom is strictly forbidden. Cell phones must be stored out of sight.

JMU Policy:

Students are responsible for registering for classes and for verifying their class schedules on e-campus. The deadline for adding a Fall Semester class without instructor and academic unit head signatures is Tue, Sept 6, 2011. After Tue, Sept 6, 2011 instructor and department head signatures are required to add a class for Fall Semester 2011. No student will be allowed to register for a Fall Semester class after Thurs, Sept 15, 2011 - no appeals.

Students with disabilities who require reasonable accommodations to fully participate in course activities and/or meet course requirements must register with the Office of Disability Services (ODS) and contact me to discuss access issues. ODS will provide you with an Access Plan Letter that will verify your need for services and make recommendations for accommodations to be used in my classroom. ODS is located in the Wilson Learning Center, Room 107; Phone: 568-6705.

Class Topics and Test Schedule

The following schedule is to be used as a guideline for progress through the semester and is subject to modification as circumstances may warrant.

Date	Topic
08-29	Plants and Their Manipulation by People
08-31	Plants and Their Manipulation by People
09-02	Plants and Their Manipulation by People
09-05	Origins of Agriculture
09-07	Origins of Agriculture
09-09	Fruits and Nuts of Temperate Regions
09-12	Fruits and Nuts of Temperate Regions
09-14	Fruits and Nuts of Warm Regions
09-16	Fruits and Nuts of Warm Regions
09-19	Cereal Grains and Forage Grasses
09-21	Cereal Grains and Forage Grasses
09-23	Legumes
09-26	TEST 1

09-28 Legumes
09-30 Foods from Leaves, Stems, and Roots

10-03 Foods from Leaves, Stems, and Roots
10-05 Spices, Herbs, and Perfumes
10-07 Spices, Herbs, and Perfumes

10-10 Vegetable Oils and waxes
10-12 Vegetable Oils and waxes
10-14 Hydrogels, Elastic Latexes, and Resins

10-17 Hydrogels, Elastic Latexes, and Resins
10-19 Medicinal Plants
10-21 TEST 2

10-24 Medicinal Plants
10-26 Psychoactive Drugs and Poisons from Plants
10-28 Psychoactive Drugs and Poisons from Plants

10-31 Stimulating Beverages
11-02 Stimulating Beverages
11-04 Alcoholic Beverages

11-07 Alcoholic Beverages
11-09 Fibers, Dyes, and Tannins
11-11 Fibers, Dyes, and Tannins

11-14 Wood, Cork, and Bamboo
11-16 TEST 3
11-18 Wood, Cork, and Bamboo

11-21 THANKSGIVING BREAK
11-23 THANKSGIVING BREAK
11-25 THANKSGIVING BREAK

11-28 Ornamental Plants
11-30 Ornamental Plants
12-02 Algae

12-05 Algae
12-07 Uses of Plants in the Future
12-09 Uses of Plants in the Future

12-16 FINAL EXAM 10:30-12:30 (Fri.)