

University of Central Florida
Biology Department
MEDICINAL BOTANY

BOT4850

LECTURE SYLLABUS

Fall 2015

Instructor: Dr. Rani Vajravelu

Ph: 407 823 0990

Office: Bio 201D

Lecture: Tue&Thur: 12:00–1:20PM

Place: CB2-105

Credits: 3

Office Hours: (Walk-in, no appointment needed; Biology 201D): M, W: 10:30 AM – 12:00 PM

Online Office hours (through Webcourses): Wednesdays 3:30 - 4:30 PM & Thursdays 1:30 – 2:30 PM

If the above hours are not convenient to you, please make an appointment through email.

OFFICE: Biology 201D

Course homepage: Access BOT4850 within Webcourses@UCF

(More course policies on homepage with * are to be considered as extension of this syllabus)

Browser recommendations: See <http://guides.instructure.com> **Read through Canvas Student Guide For “log in” problems**, call CDWS (3-0407) or inform HELP DESK at helpdesk@mail.ucf.edu

E-mail: For course-related questions, use email (Inbox) link through Webcourses- BOT 4850.

For other purposes: Rani.Vajravelu@ucf.edu (there is no guarantee for a reply with this address).

Phone: (407) 823 – 0990 [emails & phone calls on redundant info will not be replied]

PREREQUISITES: PCB 3023 Molecular Cell Biology

Course Description: The medicinal properties of plants and their role in both traditional and modern medicine; history of herbal medicine, and alternative medicinal practices around the world.

Suitable for: Students pursuing a pre-professional degree in health-related disciplines from all colleges. Restricted elective for Biology majors.

Note: Please expect a tedious workload and a vast amount of technical information that will require organizational skills & committed study habits. Knowledge on Angiosperm plant structure is essential.

Objectives:

- to gain knowledge on the value and diversity of best known medicinal plants of the world.
- to find out the role of phytochemicals in herbal medicine.
- to get an overview of alternative medicine systems employed around the world.
- to learn about the historical and modern uses of plants in medicine.

Required:

1. Textbook 1: **Medicinal Plants of the World** Ben-Erik van Wyk & M. Wink 2009, TimberPress ISBN 13: 978 0 88192 602 6
2. Classroom access to Webcourses@ucf.edu through a mobile device.
3. At least 10 note cards, 3” x 5” size.

Recommended:

1. **Medical Botany** *Plants affecting Human Health*, 2nd ed. Lewis & Elvin-Lewis, 2003. John Wiley & Sons, Inc. ISBN 0 471 62882 4
2. **Nature’s Medicine** *Plants that Heal*, Joel L. Swerdlow, 2000. National Geographic Society. ISBN 0 7922 7586

Late Registration: August 24 - 28; **DROP / SWAP:** August 27; **Withdrawal Deadline:** Nov 02

University Holidays: Sep 07, Nov 11, & 26 - 27

Attendance:

Students are responsible for all material presented in class, including announcements about course procedures. Tests and quizzes often include questions on material presented in class, so performance on these indirectly reflects attendance. Attendance will be recorded randomly. Students are NOT expected to provide an excuse for their absence unless a test/exam is missed.

As of Fall 2014, all faculty members are required to document students' academic activity at the beginning of each course. In order to document that you began this course, please complete the first online activity by the end of the first week of classes, or as soon as possible after adding the course, but no later than August 27. Failure to do so will result in a delay in the disbursement of your financial aid.

Lecture schedule [tentative] & Test dates:

Selected topics from the text book and posted articles will be covered in the form of lectures, reading assignment, projects, and guest presentations. Reading assignments will be posted on course homepage and announcements will be made accordingly.

Date	Topic <i>Please note that the chapter numbers below are used for meaningful organization of the instructor's material. They may not correspond with the chapters found in your textbook.</i>
Aug 25 & 27	Syllabus distribution; course policies explained. Ch. 1 Introduction to the Medicinal Plants
Sep 01 & 03	Ch. 2 Overview of plant parts/products used in herbal medicine Ch. 3 Risk-Benefit profiles of herbal therapies
Sep 8 & 10	Ch. 3 Risk-Benefit profiles of herbal therapies contd. Ch. 4 Phytochemicals and their actions
Sep 15 & 17	Ch. 4 Phytochemicals and their actions contd.
Sep 22 & 24	Ch. 4 Phytochemicals and their actions contd. Ch. 5 Alternative Medicine Systems of the World African & Middle Eastern; American- North, Central & South
Sep29&Oct 01	Sep 29- Test 1 on previous material Ch. 5 Alternative Medicine Systems- contd. Australian & Southeast Asian; Ayurvedic, Chinese, European Other- Aromatherapy, Homeopathy
Oct 06 & 08	Ch. 5 Alternative Medicine Systems- contd.
Oct 13 & 15	Ch. 6 Therapeutic uses of plants in human health conditions: part 1
Oct 20 & 22	Ch. 6 Therapeutic uses of plants in human health conditions: part 1
Oct 27 & 29	Oct 29- Test 2 on material covered since Test 1 Ch. 6 Therapeutic uses of plants in human health conditions: part 2
Nov 03 & 05	Ch. 6 Therapeutic uses of plants in human health conditions: part 2
Nov 10 & 12	Ch. 6 Therapeutic uses of plants in human health conditions: part 2
Nov 17 & 19	Ch. 7 Plants currently used in modern medicine
Nov 24	Ch. 7 Plants currently used in modern medicine
Dec 01 & 03	Dec 01 - Test 3 on material covered since Test 2 GRAS Medicinal Plants: from the above chapters
Dec 03	Last day for students to complete any missed work. Review for final exam.
Dec 10	Final comprehensive exam. 10 AM – 12: 50 PM

Please note:

This course serves as an introduction to medicinal uses of plants and not designed to teach anyone to self-diagnose and treat health-related conditions. Information learned from this course is not meant to substitute medical advice and supervision from trained physicians.

Evaluation: Total points for the course:	500
TESTS: 3 tests, each worth 100 points:	300 points [60%].
FINAL: Comprehensive examination:	200 points [40%].
BONUS: Pop quizzes & class participation:	10 points [2%]

Opportunities to earn bonus points will be given at the discretion of the instructor in the form of online assignments or in-class pop quizzes. Bring your WiFi enabled mobile device to class.

Some of the assignments will be randomly graded and counted towards bonus points.

Students are advised to stay prepared at all times. There is no make up for a missed assignment and no points will be given for late submission.

Total bonus points will be added to your overall test total [from 3 tests] at the end of the semester.

Evaluation Policy for the entire course:

All of the points earned from above categories will be added together after final exam. The following scale will be used to convert numerical grade in to a letter grade. That is,

92% and above = A	82% - 84% = B	72% - 74% = C	62% - 64% = D
89% - 91% = A-	79% - 81% = B-	69% - 71% = C-	59% - 61% = D-
85% - 88 = B+	75% - 78% = C+	65% - 68% = D+	58% and below = F

Z designation: Academic dishonesty may result in the designation of Z in front of your grade. For more info see <http://z.ucf.edu> Also, check “Honesty” on page 4 of this syllabus.

Incomplete Grade: ‘I’ is given only for students who have completed all of the course assessments with a minimum ‘C’ average and missed the final exam with a valid, documented excuse submitted to the instructor within 24 hours of missing the final exam.

***Makeup test:** If a test/exam is missed with a valid reason a makeup can be requested.

*Also check Webcourses homepage for a Makeup request form and makeup policy.

Test / exam policy:

You must have a valid UCF student ID in your possession in order to enter the exam hall.

When a student leaves the exam hall once the test is in progress, he/she is considered to have completed the exam and will not be allowed back in to the hall to continue the exam.

Students who show up late (more than 5 minutes after the scheduled start) will be marked absent and must follow through the makeup policy. More policies will be announced in class before each test.

Grade posting & Grade concerns:

- Test and final exam grades will be posted on WebCourses course homepage. It will take at least a week to upload the grades. Log in to this page and click “**Grades.**” *Instructor is not responsible for network problems and log in difficulties.* If a re-grading is needed because of student’s fault (incorrect PID, smudges etc. on scantron), 2 raw points will be deducted from that test/exam.

Bring concerns regarding posted grades to the attention of the instructor within one week (24 hrs for final exam and test 3) from the date the grades were posted. After this time, the posted grades will become final.

Instructor retains the right to change the grade if an error has been made in recording student grades. If such a change is made, student will be informed through UCF Knight’s email. If you do not have one, set up an account at <https://www.secure.net.ucf.edu/KnightsEmailSelfService>

Scantron & Score sheets / Completed test review:

We plan to use scantron for all of the tests which will be provided to the entire class. Graded scantrons will not be returned to students. However, score sheet will be printed out of the scantron which will be available for review for two weeks after each test (2 days for Test 3). Please use the scheduled office hours for this purpose.

Other important policies:

1. Students who are officially registered for this particular course only are allowed to attend the lectures and take the quizzes and tests. Instructor is not responsible for any problems related to registration.
2. Students must follow the University standards for personal and academic conduct as outlined in The Golden Rule. See <http://www.ucf.edu/goldenrule>
3. Walking in late and/or leaving early from the lecture hall disrupts the entire class and is NOT allowed.
4. All kinds of audio/video, cell phones must be turned off inside the class room. If you use laptop in class, use it only for this course-related note-taking. Anyone caught text messaging or emailing inside the classroom will have 5% deduction of their final course grade.
5. Recording of class lectures in audio/video form NOT allowed. Duplication and distribution of class lecture and exam questions strongly prohibited. *Third parties are selling class notes and other materials from this class without my authorization. Please be aware that such class materials may contain errors, which could affect your performance or grade. Use these materials at your own risk.*
6. Dictionaries, books, study sheets, pocket calculators or organizers, scanning pens, or other sources of information NOT allowed for use during class quizzes, tests and examinations.
7. Anyone who interrupts the classroom-learning environment by any kind of disruptive behavior (including the ones in 1 - 6 above), that interferes with the instructor's right to teach and fellow students' right to learn, will be removed from the classroom and appropriate University disciplinary action will be initiated.
8. You are advised to use the course homepage only for BOT4850 related postings. Please remember that Dr. Rani does not verify the accuracy of class notes exchanged among students.

Copyright statement:

The instructor may provide links to various external websites to enhance your understanding of the course content. Students are advised to use caution and good judgment in using such content that should not be copied, duplicated or downloaded. For more info visit:

http://www.copyright.com/content/cc3/en/toolbar/education/resources/copyright_on_campus.html

Disability Statement:

Students with disabilities who need accommodations for tests/exams must be registered with UCF Student Disability Services, phone (407) 823-2371. This syllabus is available in alternate formats upon request. In addition, if accommodations are required within the classroom or with online assignments, students must schedule a meeting with the professor at the beginning of the semester to discuss the nature of accommodations. Email requests alone will not be sufficient for classroom/online accommodations.

Honesty:

The Biology Department presumes that all students will be honest, and that work turned in by the student will indeed be the result of that person's work. Copying the work of others, signing in for someone else, getting someone's help in online assignments, or cheating will not be tolerated, and will result in an automatic F for both the offending student and any assisting them. In addition, appropriate University disciplinary action will be initiated along with assigning a Z-grade.

General Policy:

Changes will be made in the above policy if, in my judgment, the interest of learning and fairness dictate such changes. Test score sheets are to be retained by the student until the end of the course or for any questions regarding the course grade.

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