IB 117 Lab Medical Ethnobotany Schedule  UC Berkeley, Dept of Integrative Biology
Lab # IB 117L (2 credits)  in VLSB 3030 & UC Botanical Gardens

GSIs: TBD

READERS FOR THE LAB CAN BE PURCHASED AT Krishna Copy Center,  2001 University Ave. Phone: 540-5959

Specific pages in LAB READER correspond to each LAB in the course. This reader is REQUIRED for the LAB IB 117L course.

OPTIONAL (not required) LAB TEXT: PDR for Herbal Medicines, 2nd or 3rd Edition, Medical Economics Company, Montvale, New Jersey….can be obtained through Amazon.com

Students may take the lecture course (IB 117) alone for two credits, the lab course (IB 117L) course alone for two credits, or both the lecture and the lab together for a total of four credits. If students are taking the lab alone they should have already taken the lecture.

Grade breakdown
Midterm exam: 100pts  
Final exam: 100pts  
Three Quizzes: 20pts each = 60pts total  
Plant Sketch Notebook: 40pts  
Total Points: 300pts
IB 117L MEDICAL ETHNOBOTANY LAB
The laboratory portion of the course (IB 117L) will be for 2 credits held in the Valley Life Sciences Building and the UC Botanical Gardens. These labs will focus on studying medicinal plants from the major ecosystems and geographical regions of the world. Students will learn common names, scientific names, plant families, field identification, habitats, and ethnomedical uses of medicinal plants. How the medicinal plant is prepared, administered, and used as a phytomedicine will also be discussed. There will be reference to the phylogenetic relationships between the plant families and genera represented by the medicinal plants. The course will have a teaching laboratory room in Valley Life Sciences Building where fresh botanical specimens and dried botanical voucher specimens of the medicinal plant species will be displayed for students to study throughout each week. Students will also have weekly outdoor labs at the UC Botanical Gardens.

Lab logistics
You must come to ALL of the labs on time. There is a lab on Tuesday and Thursday. During most weeks, one of the days the lab will meet in 3097/3095 VLSB, and the other day at the UC Berkeley Botanic Gardens. Attendance is required for both lab days. There will be a discussion/lecture at the beginning and we will go over lab material as a group (and have quizzes). One the first day of lab, all students should meet in VLSB 3030.

Objectives
1- Identify plants by their family, genus and specific epithet, in addition to their common name and ethnomedical uses
2- Know geographical origin of each plant (i.e. Asia, Europe, America, Africa, Australia, Pacific Islands)
3- Learn about medicinal plant extraction techniques

Required Plant Sketch Notebooks
Students are required to make sketches of all the required plants. There will be around 220 plant species required for the course. Each student will need to purchase a bound notebook for taking notes and making drawings of all these plants. Students should bring drawing materials e.g., colored pencils, regular pencils to each lab.

Materials needed
1) Lab reader (Krishna Copy at 2001 University Ave)
2) Sketch Notebook—making drawings and taking notes on required plants
3) Drawing materials—colored pencils, regular pencils, straightedge/ruler, etc.
**Labs:** Tuesdays & Thursdays: Section 1 (9-12:00) and Section 2 (2-5:00) in VLSB 3030 & UC Botanical Gardens

Week #1:  8/27: NO LAB

Week #2:  9/1, 9/3:  
Introduction to plant vegetative morphology, reproductive parts and fruits  
Alcohol extraction of medicinal plants. Water decoction of common herbs

Week #3:  9/8, 9/10: California/USA/Canada (Aceraceae – Lamiaceae)

Week #4:  9/15, 9/17: California/USA/Canada (Lauraceae – Zygophyllaaceae)

Week #5:  9/22, 9/24: Europe/Mediterranean/Near East (Berberidaceae – Lauraceae)

Weeks #6:  
9/29, 10/1: Europe/Mediterranean/Near East (Apiaceae – Asteraceae)

Week #7:  
10/6: California ethnobotany lecture in VLSB 3030:  
10/8: Decant alcohol extractions

Week #8:  10/13, 10/15: Europe/Mediterranean/Near East (Liliaceae – Vitaceae)

Weeks #9:  
10/20: Herbal salves, herbal compresses, lip balm  
10/22: VLSB 3030, **MIDTERM EXAM**

Weeks #10:  10/27, 10/29: Asia (Apiaceae – Myrtaceae)

Week #11:  11/3, 11/5: Asia (Nelumbonaceae – Zingiberaceaeaceae)

Week #12:  11/10, 11/12: Australia and Africa

Week #13:  11/17, 11/19: Tropical America (Agavaceae – Euphorbiaceae)

Week #14:  
11/24: Tropical America (Fabaceae – Tropaeolaceae) in VLSB 3030  
11/26: Thanksgiving break: no lab

Week #15:  
12/1: VLSB 3030, Review session  
12/3: VLSB 3030, IB 117 LAB **FINAL EXAM**
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- **Introduction to Plant Morphology & Reproductive Parts Lab**: pages 13-28
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