

IB 117 MEDICAL ETHNOBOTANY LECTURE U. C., Berkeley, Department of Integrative Biology

Instructor: Thomas Carlson, tcarlson@berkeley.edu

IB 117 Lecture (2 credits)

Lectures: 2-3 on Mondays & Wednesdays in 245 Li Ka Shing

Carlson Office Hours in VLSB 1098: Mondays 12:10-1:00 & Tuesdays
11:10-12:00, Wednesdays 1:10-2:00

**READERS FOR THE LECTURE CAN BE PURCHASED at Krishna
Copy Center, 2001 University Ave. Phone: 540-5959**

**Specific pages in REQUIRED IB 117 LECTURE READER
correspond to each lecture in course.**

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 for a total of four credits. No course prerequisites are required for either the lecture or the lab.

IB 117 MEDICAL ETHNOBOTANY LECTURE COURSE

Biological diversity and ethnolinguistic diversity sustain traditional botanical medicine systems of the world. Major topics covered in this course include: ethnolinguistic origins of medicinal plant knowledge on plant-derived pharmaceuticals and phytomedicines; field research methods in ethnobotany and ethnopharmacology; examples of how traditional botanical medicines provide safe, effective, affordable, and sustainable primary health care to tropical countries; human physiology, human diseases, and mechanisms of action of plant-derived drugs. There will be written midterm and final examinations.

Lecture Midterm: Wednesday, October 14th, 2:00–3:00 PM in 245 Li Ka Shing (45% of grade)

Lecture Final: Wednesday, December 16th from 7:00-9:00 PM (55% of grade)

IB 117 Lecture Syllabus for Fall 2015

Lectures 2:00 – 3:00 PM on Monday & Wednesday in 245 Li Ka Shing

**IB 117 Lecture Reader available at Krishna Copy Center at 2001 University Ave.
Phone: 540-5959.**

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

PAGES LISTED IN PARENTHSES FOR EACH TOPIC ARE THE REQUIRED PAGES IN THE READER

Topic # 1: Overview of Medical Ethnobotany & Ethnopharmacology (pp. 1-43, 48-53)

Topic # 2: Autonomic Nervous System/Sensory Motor System & Phytomedicines (pp. 72-73, 77, 78, 80-163)

Topic #3: Human CNS System, Stimulants, Hallucinogens, Sedatives, Analgesics & Phytomedicines (pp. 164-253)

Topic #4: Peripheral Pain, Inflammation, Dermatology (pp. 254-289)

Topic #5: Endocrine System & Phytomedicines (pp. 290, 293-312)

Topic #6: Type 2 Diabetes mellitus, taste buds & Phytomedicines (pp. 313-331)

Topic #7: Cardiovascular System & Phytomedicines Cardiovascular Disease, Lipids & Phytomedicines #1 (pp. 332, 335, 337-338, 339-340, 343-382)

Topic #8: Cancer, Immune System & Phytomedicines (pp. 383, 386, 388, 389-411)

Topic #9: Infectious Diseases, & Phytomedicines (pp. 412-434)

Topic #10: Respiratory System & Phytomedicines; (pp. 436, 437, 439-453)

Topic #11: Human Gastrointestinal & Phytomedicines; (pp. 454-455, 458, 467-498)

IB 117 (Medical Ethnobotany) Lecture Reader Content for Fall 2015

Pages 1-44: Introduction to Medical Ethnobotany PPT slides
Pages 45-71: Ethnobotany articles and graphs
Pages 72-100: Nervous system physiology, diagrams & graphs
Pages 101-103: Tables for peripheral nervous system
Pages 104-129: Peripheral nervous system, parasympathetic PPT slides
Pages 130-145: Peripheral nervous system, nicotinic/ganglionic & neuromuscular blockers PPT slides
Pages 146-163: Peripheral nervous system, sympathetic PPT slides
Pages 164-165: Central nervous system physiology
Pages 166-179: Tables for central nervous system
Pages 180-253: Central nervous system PPT slides
Pages 254-259: Tables for peripheral pain, inflammation & dermatology
Pages 260-289: Peripheral pain/inflammation, dermatology PPT slides
Pages 290-298: Endocrine system physiology
Page 299: Table for endocrine system
Pages 300-312: Endocrine PPT slides
Pages 313: Tables for type 2 diabetes mellitus & taste buds
Pages 314-331: Diabetes mellitus PPT slides
Pages 332: Table for taste buds
Pages 333-347: Cardiovascular physiology
Pages 348-351: Tables for cardiovascular system
Pages 352-382: Cardiovascular PPT slides
Pages 383-389: Cancer, lymph system physiology
Page 390: Table for cancer system
Pages 391-411: Cancer PPT slides
Pages 412-414: Table for infectious disease system
Pages 415-434: Infectious disease PPT slides
Pages 435-438: Respiratory physiology
Pages 439-440: Tables for respiratory system
Pages 441-453: Respiratory PPT slides
Pages 454-469: Gastrointestinal physiology
Pages 470-472: Tables for gastrointestinal system
Pages 473-498: Gastrointestinal PPT slides
Pages 499-506: Medical terminology