

Botanic studies	Ethnographic experiences
<p>1. Most primitive, least evolved: cyanobacteria [algae]</p> <p>More complex, more evolved</p> <p>2. Primitive plants Mosses: spore capsules, spores, sperm, eggs Seedless Vascular Plants psilotum: cones, spores, sperm, eggs lycopodium: cones, spores, sperm, eggs ferns: sori, spores, sperm, eggs</p> <p>4. Seeded non-flowering plants (cone bearing plants): gymnosperms: cones, pollen, naked seeds</p> <p>Most complex, evolved Seeded flowering plants angiosperms:</p> <p>6. vegetative morphology: leaf shapes 8. floral morphology: flower shapes 9. fruits</p>	<p>3. Healing plants Plants that heal us</p> <p>5. Food plants Plants that feed us</p> <p>7. Material culture plants Plants that provide shelter, transportation, clothing, and that decorate our bodies, homes, and gardens</p> <p>10. Sacred plants Plants that entertain, inspire, and enrapture us, plants that inspire legends.</p>

Course notes

Attendance policy: Five absences results in withdrawal from the course. A late is one third of an absence. Thus any combination of absences and lates that adds to five will result in withdrawal. For example, fifteen lates would result in withdrawal. If the fifth absence is incurred after the last day to withdraw, then the fifth absence results in failure to pass the class. Attendance and participation are essential to success in this class. Come to class prepared with your "yam, sakau, and pig" (having read the text and prepared to take notes and learn or give a presentation) and you will do well. If you are absent or unprepared, then your "title" may get "jumped" (your grade may be negatively affected). This class is all about actively being here.

Field trips, hikes, and outings: Rain or shine, on and off trail. Hikes over difficult, steep, muddy, and slippery terrain are conducted. Outdoor work days are in pouring rain or hot sun and involve sharp objects such as machetes. Plants grow where they want to, not where it is convenient for us. Plant knowledge gained on hikes is testable material: Ethnobotany is a listen, watch, and learn field!

Office Hours: Monday, Wednesday, Friday afternoons, or by appointment or walk in.

No betelnut chewing in class due to college regulations. No food, drink, or gum in the science laboratories.

Do not write on the tables, open the taps, or otherwise touch the equipment in the laboratory unless so instructed. Please do not carve your names into anything.

Assessment: Tests and examinations include coverage of student learning outcomes on outline. Some outcomes are assessed via presentations. Grade is based on participation in course activities, performing presentations, and achievement on tests. Being here and being an active participant are crucial to success in this course.

Ethnobotanical individual presentations include an individual oral presentation.

Healing plants presentation: bring the plant. Material culture: bring the item.

Some students will have to work with the instructor to find suitable material for presentations.

The presentation of a traditional food is done as a group. Each culture presents a single food, bringing that food to share with the class.

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Wk	Day	Date	Fixed Ev	Area	Topic
0	Thurs	13 Aug		Intro	1. Introduction to Ethnobotany. Cyanobacteria. Lee Ling: Chapter one Balick: Chapter one
1	Tues	18 Aug	Add/drop end	Botany	2. SVP hike. Outdoor. Primitive and less complex plants field hike: Mosses, Seedless Vascular Plants (SVP): psilotum, lycopodium, selaginella, ferns. WET MUDDY STEEP . Lee Ling: Chapter two Balick: Chapter eight 217 - 251
1	Thurs	20 Aug		Ethnogarden	Outdoor. Finding the plants: Tall razor grass will cut your legs and hands. <i>Merremia peltata</i> will stain your clothes. Machetes will be used. Sweaty. Hot. Wet. Muddy. <i>Need a ground orchid in the garden</i> . 1. First the class will tour the garden as a group to learn the locations of the plants in the garden and to cover the garden cleaning ground rules. At the Palikir National Plants of Micronesia ethnobotanical garden the threat to the collection is primarily an invasive sun-loving grass (<i>Ichaemum polystachum, reh padil</i>) and an aggressive native vine (<i>Merremia peltata, iohl, puhlah</i>). Thus the following guidelines to cleaning garden: Retain as much shade as possible. Do not cut <i>Premna obtusifolia (fienkack, topwuk, nior, niyóór, liorr, arr)</i> , <i>Morinda citrifolia (noni, ii, weipwul, nopwur, mangal'wag, Camptosperma brevipetiolata (elahk, dohng, ramluw, rramllaw)</i> , or other small trees that provide shade. Retain, to the extent possible, ferns. The bulk of the ferns in the garden are native to Pohnpei and should be encouraged to grow. Clear carefully around all ferns and other seedless vascular plants. 2. Then the class will clean-up around the plants planted by students in previous terms including the banana area added fall 2008. 3. Start thinking about what unique plant you and your partnet could contribute to the garden at term's end.
2	Tues	25 Aug		Botany	Preparation for group presentations on cyanobacteria, mosses, SVPs.
2	Thurs	27 Aug	Class lists		Wayne Law
3	Tues	01 Sep		Botany	Group presentations cyanobacteria, mosses (bryophytes), lycopodium, selaginella, ferns.
3	Thurs	03 Sep	Grad app		Test One

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4	Tues	08 Sep		Ethnography	3. Healing plants walk. Outdoor field trip. Plants that heal us. Traditional and medicinal plants of Pohnpei field trip to Pohnpei state campus. Plants that heal lecture. Public versus private knowledge. Lee Ling: Chapter three Balick: Chapter seven
4	Thurs	10 Sep		Botany	Plant collecting process. Herbarium specimens. Outdoor: a walk through the living herbarium that is the ethnobotanical garden. Plants and uses.
5	Tues	15 Sep		Ethnography	Healing plant individual presentations
5	Thurs	17 Sep		Ethnography	Healing plant individual presentations
6	Tues	22 Sep		Ethnogarden	Outdoor: Ohigan. Prevention of ghost diseases by honoring the dead through respectful cleaning of a cemetery. Sweaty. Hot. Wet. Muddy.
6	Thurs	24 Sep		Botany	4. Outdoor field trip: Gymnosperms and plants with economic value. Pohnpei Pwunso Kolonia botanic garden road trip and walk. Lee Ling: Chapter four Balick: page 220
7	Tues	29 Sep		Botany	Preparation for gymnosperm presentations. Determine food groups food presentations.
7	Thurs	01 Oct		Botany	Group presentations: gymnosperms
8	Tues	06 Oct			Test two
8	Thurs	08 Oct	Middef	Ethnography	5. Haruki food plants walk. Outdoor: Plants that feed us. Planning session for Tuesday 03 March food presentations. A walk and talk on campus. Lee Ling: Chapter five Balick: Chapters two, three, four, five
9	Tues	13 Oct		Ethnography	Plants as food: Each cultural group brings a traditional food to share. Group presentation with food.

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9	Thurs	15 Oct		Ethnogarden	Outdoor: Cleaning up the garden! A chance to learn about the plants and make decisions on what culturally meaningful plant you can contribute to the garden at the end of the term. The plant you do eventually bring will have to be a new addition to the garden - either a new variety of an existing plant or a new species. Sweaty. Hot. Wet. Muddy.
10	Tues	20 Oct		Ethnography	6. Outdoor field walk: Angiosperms: Vegetative morphology in the Palikir ethnobotanical garden. Also a chance to learn the plants of the garden. Hike from the ethnobotanical garden to the oahs: the family with the largest leaves on the planet. <i>[Add a ground orchid to the garden for linear venation and floral morphology. Use hill south of pineapple]</i> Lee Ling: Chapter six Balick: Chapter eight pages 251 - 512
10	Thurs	22 Oct		Ethnography	7. Material culture: Plants that shelter us, transport us, and decorate our bodies, homes, and gardens. At the hut near the gym. Lee Ling: Chapter seven Balick: Chapter eight pages 228, 229, 255, 265, 291, 293, 294, 304, 305, 322, 326, 327, 346, 347, 350, 351, 398, 408, 429, 443, 476, 481, 482, 484
11	Tues	27 Oct		Ethnography	Traditional materials experience: thatching Balick: Pages 263, 265, 267, 268
11	Thurs	29 Oct		Ethnography	Material culture individual presentations
12	Tues	03 Nov	FSM Indep		
12	Thurs	05 Nov		Botany	8. Outdoor field walk: Angiosperms: Floral morphology. Sketch flowers. Floral formulas. <i>Use Haruki floral SVG.</i> [Reminder: one week to bring a fruit to eat] [Share a plant story in a week and a half] Lee Ling: Chapter eight

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13	Tues	10 Nov			Test three
13	Thurs	12 Nov		Botany	9. Let 'em eat fruit! Bring an edible fruit to share with the class. Angiosperms: fruits. The third morphological component in the trio leaves, flowers, and fruit. Lee Ling: Chapter nine
14	Tues	17 Nov		Ethnography	Share a story about a plant. The story could be a legend, a personal experience where a plant played an central role, or the story of the history of how plant came to your island. Any kind of plant story that can be shared. Session is off-the record.
14	Thurs	19 Nov		Ethnography	10. Plants that entertain us. Memes and <i>Areca catechu</i> . Entering other worlds lecture: Five types of psychoactive substances. Lee Ling: Chapter ten Balick: Chapter six
15	Tues	24 Nov		Ethnography	<i>Piper methysticum</i> : Chemistry and Uses, Legends Balick: Chapter six
15	Thurs	26 Nov		Ethnography	Field Trip: Kava cultural ceremony
16	Tues	01 Dec		Ethnogarden	Outdoor work with dirt: Ethnobotanical garden clean-up. Tall razor grass will cut your legs and hands. <i>Merremia peltata</i> will stain your clothes. Sharp knives will be used. Sweaty. Hot. Wet. Muddy.
16	Thurs	03 Dec		Ethnogarden	Outdoor work with dirt: Sweaty. Hot. Wet. Muddy. Outdoor work with dirt: Ethnobotanical garden: planting your contribution to the garden.
17	Tues	08 Dec		Ethnobotany	4:20 to 6:20 A field practical final in the ethnobotanical garden identifying the plants and their uses.

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