

Introduction to Ethnobotany, (100% ONLINE)

EBOT F100 (CRN: 52483), ANTH F102 (CRN: 52487)

Mai 15 – June 23, 2023

3 credits

Course Information

This blended online and hands-on course surveys concepts of botany and ethnobotany in the context of Alaska Native cultures, including: plant biology and taxonomy, scientific and ethnobotanical plant collection methods, traditional plant uses (working with Alaska Native Elders), and how the resulting ethical awareness contributes to other fields of study.

Instructor	Lisa Strecker lstrecker@alaska.edu Mailing Address: UAF Kuskokwim Campus, PO Box 368, Bethel, AK, 99559 Work phone: 907-543-4551
Office hours	Mondays, 9 – 11 am via Zoom Please sign up for an appointment slot on your instructor's google calendar (https://tinyurl.com/yy6begkj) and join the Zoom meeting (below) Send email for alternative times or modality (e.g. over the phone instead of Zoom).
Location	EBOT 100/ANTH102 is mainly asynchronous and will be taught via distance delivery , using Zoom, Canvas, google docs and google drive . The technical aspects of the course will be introduced during the first meeting and are outlined below.
Online course platform	Canvas (https://alaska.instructure.com/). You will need your UA credentials to log on.
Zoom	https://alaska.zoom.us/j/98144808854?pwd=b1VtMWwQ1ajhJbndyTmZJY1hobk9kdz09 Password: EBOT
Course Schedule	Introduction to Ethnobotany is a mainly asynchronous course. After an initial virtual and synchronous class session via Zoom, you will work independently through the material on the course website, participate in discussions on the course blog, and complete course assignments. You will have to submit your contributions to the course blog and check in with your instructor as needed. There will be two more Zoom sessions, one for the presentation of the hands-on project (Project A) and one for the final project (Project B, research). For details, please see the Course Outline below. This year, students will be offered additional, optional meeting times in case they wish to have more synchronous interaction with their instructor and their peers. The following three sessions are mandatory . If you cannot join for the three dates below, please immediately reach out to your instructor; <ul style="list-style-type: none">• Monday, 5/15/2023, 4-6 pm. Introduction/s• Friday 6/9/2023, 6-8 pm. Student presentations (Project A, hands-on project)• Friday 6/23/2023, 6-8 pm. Student presentations (Project B, research project)
Instructional methods	Readings, lecture, discussion, blogging, hands-on learning, student-led projects, student presentations;

Course Description

This course surveys basic concepts of botany and ethnobotany with emphasis on the flora of Alaska and how people use these plants. Students will gain a basic understanding of plant biology and taxonomy; scientific methods of plant collection including identification and curation; as well as the use of Alaskan plants for food and medicines, ethnobotanical methods of collecting plant-use information from Indigenous cultures, and ways that this information contributes to other fields of study, such as resource management, community development, and human health.

Course Goals

This course will introduce the students to the interdisciplinary field of ethnobotany and some research methods in the context of Alaska. The students will be familiarized with basic botanical terms and concepts and acquainted with Alaskan native and non-native flora. Thereby, the course will convey the cultural relevance of plants to some of the Indigenous cultures of the Alaska. It is the aim of the course to raise awareness for ethical issues and mindfulness when working with people and plants.

Student Learning Outcomes

The successful students will...

- Become familiar with the general principles and basic ideas of ethnobotany as an interdisciplinary field of study. This will include folk taxonomy and cognitive ethnobotany as well as the discipline's history and its importance in traditional and modern culture in both the global and the Alaskan context.
- Gain basic understanding in plant morphology, anatomy, taxonomy, and ecology as well as field collection methods.
- Become acquainted with standard qualitative ethnobotanical survey techniques and learn how to apply them.
- Create their own ethnobotanical field notebook and learn how to set up a small teaching plant collection of voucher specimens.
- Be trained to recognize regionally-important plant families based on field characteristics by using scientific keys to collect and identify plants.
- Learn about some plants that have been important to Alaskan Natives in the past and present.
- Learn about medicinal, food, and other uses of Alaska native plants.
- Develop awareness to contemporary ecological issues, such as invasive species and contemporary wildcrafting.

Resources and Materials

1. Guertin, P., Barnett, L., Denny, E.G. and Schaffer, S.N., 2015. *USA National Phenology Network Botany Primer*. USA-NPN Education and Engagement Series 2015-001. (On Canvas)
2. Parker, Carolyn 2008 *Introduction to Ethnobotany, Summer Class, Course Manual*. UAF – Kuskokwim Campus & Effie Kokrine Charter School. (On Canvas)
Fienup-Riordan, Ann, Rearden, A., Meade, M., & Jernigan, K. 2021. *Yungcautnguuq Nunam Qaingá Tamarmi/the Entire Surface of the Land Is Medicine: Edible and Medicinal Plants of Southwest Alaska*. University of Alaska Press.

3. Jernigan, Kevin; Mary Pete; Bethel Elders, n. y. A Guide to the Ethnobotany of the Yukon-Kuskokwim Region. Manuscript. (On Canvas)

Any reading listed in the Course Outline (will be provided to students on Canvas or emailed to them).

Optional Texts will be provided on Canvas

Field notebook and pencil, color pencils. The notebook can be water proof but doesn't need to be. Choose a notebook with a sturdy cover, if possible. Ideally, it has a format that fits easily into a pocket or bag that is comfortable for you to carry along when you go on walks.

Technical Prerequisites

Students are required to have a:

- UAF email address (If you use a different email address, make sure you set up automatic forwarding for your private email account as we will communicate with you through your UAF email address only)
- Working computer and basic computer skills
- Reliable computer internet access (Working phone line as a backup), and an
- Electronic device to take photographs and short videos (e.g. camera, phone, iPad) and the setup and technical skills necessary to upload the photographs and videos onto your computer and onto the web.
- Computer headset (headphones with microphone) can be helpful.

Instructional Methods

The teaching techniques deployed in this course are a selection of various forms of distance instruction (asynchronous and synchronous) and hands-on experiential learning. The student assignments will consist of independent readings, watching video clips, listen to interview recordings, creating blog entries, and replying to other students' blog posts. The students will maintain a field notebook. Students will work on individual assignments and present them virtually through video clips and in-person to their peers and the public.

Class Participation: While the forms of participation in an online environment are different from those in a face-to-face teaching situation, you are always expected to actively participate in this class. Your personal learning outcome from this course depends to a large portion on the degree of your engagement with the learning material, your peers as well as your instructors. If you have questions about the course content or the class itself, please always ask. The participation in the blog is a central part of this class and we expect you to read all posts of your peers carefully.

Blog Posts: Each student will write at least 10 blogs, each 1-2 paragraphs long, about topics listed in the Course Schedule. If you cite information from other sources, make sure to follow the citation guidelines as outlined under 'Projects' below.

For instructions for the project posts (Projects A and B), please read below.

Blog Comments (= replies to blog posts): You are expected to post responses to other students' blog posts. This dialogue is meant to encourage questioning, critical thinking, learning, and getting to know each other. Please post at least two comments per required blog post; feel free to respond to more than two if you wish.

Immersion: During your three one-hour long immersion sessions you are required to sit still in a place and observe your environment with all your senses. Afterwards, but before leaving, take your notebook and document your experience. The grading of your immersion sessions will be done through the blog posts that you will write up under the weekly >Field Notebook posts.

Field notebook: Take your notebook along on your walks and use it to take notes of the plant(s) that you collect, make drawings of plants, describe the surrounding of the plants and thoughts. You will jot down your key points, observations and thoughts from your immersion sessions in your notebook as well. It is important that you take your notes immediately. You will upload selected pages into your weekly field notes posts. Your field notebook will be graded through your field notebook posts. Commenting on other students' field notebook posts is not required but you are invited to do so.

PROJECTS

Post for your Ethnobotanical Hands-On Project (Project A)

Several of the assignments that you will have submitted during the first half of the course are going to be part of your post for project A: common plant name, currently valid scientific plant name (including author), image of your herbarium specimen, photograph of your plant, morphological drawing, documentation of your steps.

Structure and elements of your hands-on project post

- Introduction (e.g., why did you choose the plant or the project? What is the project about? Cultural relevance of the project, your own cultural background and (if applicable), the role that the project or the plant plays in it)
- The plant
- The process (describe the steps involved, add illustrations)
- The product
- Conclusion (What you have learned and what you would modify next time)
- References (only if you refer to other sources in your text)

If you refer to other source, please pay attention to proper citation, include sources of information and in-text citations; choose one citation style and use it consistently. No matter which citation style you decide to use, you are required to use in-text citations that consist of the last name of the author(s), the year the sources were published and the page (Author(s) year:page). For websites, always provide an access data (not needed if you have a DOI). Total length of the post (including references): 2000 words.

Your post will be graded for content (50%), visuals (30%), language (10%), format and citations (10%).

If you need general support in writing this post or would like someone to proofread it, please don't hesitate to contact the UAF Writing Center.

You are expected to give a **brief oral presentation (5 min)** of the hands-on project during our second mandatory, synchronous class session **on Friday, June 9, 2023, 6 – 8 pm**.

Post for your Ethnobotanical Research Project (Project B)

At the beginning of the course, you will pick a plant for your ethnobotanical research project from a list of tundra plants provided to you (shared Google drive folder). You will learn about the importance and uses of your plant for Alaska Native and non-Native people from our course book and other published sources (please look up information in other books, e.g. at the library) and resources available on Canvas; your first hand research experience will be to listen to recorded interviews with Alaska knowledge holders that are made available by [UAF's oral history archive](#). The recordings relevant for EBOT100/ANTH102 can be accessed through the course folder on the google drive. Listen to at least three recordings with an overall length of at least 100 min.

Final presentation

Date: **Friday, June 23, 2023, 6 – 8 pm**.

The virtual final presentation via Zoom will be open to the public and you are encouraged to invite guests! Every student will present one of the two course projects of her or his choice (your hands-on project OR your research project). The corresponding project posts will be published, e.g. on the [Ethnobotany Program's website](#). You are required to submit model releases (if needed) for the post that you are going to present during the final

presentation together with your project post (Email the model releases to your instructor). Please find a blank UAF model release form on Canvas.

The research project posts are due on Thursday (June 22, 2023). You will be graded for content (60%), visuals (10%) language (10%), format (10%), citations (10%). Please have someone proof read the text for your project post; contact the UAF Writing Center if you need general support in writing or proofreading your text.

Course Content

Please see Course Outline below.

Evaluation and Grading

Task	% of final grade
Ten blog posts and two replies each	25
Quizzes	
1. A and B: Questions about readings Parker, Nolan & Turner (A Botanical Classification and Nomenclature (Parker) (1 point); B Questions for Nolan and Turner (2011) (1 point)	1+1
2. Evaluating McClatchy's 'Introduction to the Culture of Ethnobotany'	2
3. Recap Unit I. Ethnobotany basics	2
4. Plant morphology	2
5. Recap. Herbarium collections	2
6. Taxonomy video	2
7. Recap. Tundra	2
Assignment 1: Plant leaf forms	4
Assignment 2: Herbarium specimen	4
Assignment 3: Recorded mini-introduction to plant families	4
Assignment 4: Flashcard for Project B	4
Six Field notebook posts	12
Project A post	10
Project A presentation	3
Project B post	10
Project B presentation (=final presentation)	5
Class presence and participation	5
TOTAL	100
Extra credit	3 max.

Grading Scale (based on the percentage of total possible points)

A	A+ : 98-100% A : 93-97% A- : 90-92%	"A" (including A+ and A-) indicates a thorough mastery of course content and outstanding performance in completion of course requirements.
B	B+ : 87-89% B : 83-86% B- : 80-82%	"B" (including B+ and B-) indicates a high level of acquired knowledge and performance in completion of course requirements.
C	C+ : 77-79%	"C" (including C+ and C-) indicates a satisfactory level of acquired knowledge and

	C: 73-76% C-: 70-72%	performance in completion of course requirements.
D	D+: 67-69% D: 63-66% D-: 60-62%	“D” (including D+ and D-) indicates a minimal level of acquired knowledge and minimal performance in completion of course requirements. This grade does not satisfy requirements for courses in the major, minor, core or graduate programs.
F	F: below 60%	“F” indicates failure to meet a minimal level of understanding of course content and/or performance in completion of course requirements. All F grades, including those earned in pass/fail courses, are included in the GPA calculations.
W	Withdrawn — Indicates withdrawal from a course after the first two weeks of a semester.	
I	Incomplete — An incomplete is a temporary grade used to indicate that the student has satisfactorily completed (C (2.0) or better) the majority of work in a course but for personal reasons beyond the student’s control, such as sickness, has not been able to complete the course during the regular semester. Normally, an incomplete is assigned in a case when the student is current in the class until at least the last three weeks of the semester or summer session. Negligence or indifference are not acceptable reasons for an I grade. Instructors include a statement of work required of the student to complete the course at the time the I grade is assigned, and a copy of the notice of the incomplete grade will be sent to the dean of the school or college in which the course is given. An incomplete must be made up within one year or it will automatically be changed to an F grade. One year is the longest amount of time allowable for completion of the I. The I grade is not computed in the student’s GPA until it has been changed to a regular letter grade by the instructor or until one year has elapsed, at which time it will be computed as an F. A senior cannot graduate with an I grade in either a university or major course requirement. To determine a senior’s GPA for honors at graduation, the I grade will be computed as a failing grade.	
NB	No Basis — Instructors may award a No Basis grade if there is insufficient student progress and/or attendance for evaluation to occur. No credit is given, nor is NB calculated in the GPA. This is a permanent grade and may not be used to substitute for the Incomplete. It cannot be removed by later completing outstanding work.	

More information about the University of Alaska’s grading system and grade point average computation can be found here: <http://catalog.uaf.edu/academics-regulations/grading-system-gpa-computation/>

‘C’ is the minimum acceptable grade that undergraduate students may receive for courses to count toward the major or minor degree requirements, or as a prerequisite for another course.

Policies & Procedures

Turnaround time: Emails will be answered the same day and no later than 48 hours. Your submitted and delivered assignments will be graded within a week.

Time commitment: College level science courses customarily require at least 2 to 3 hours of time outside of class (for reading, study, and preparation) per credit hour. Students whose schedules cannot accommodate this level of commitment for whatever reason (work, family obligations, etc.) are unlikely to be successful in this class.

Attendance: Student attendance and participation are necessary to learning the material in this course.

Each student is expected to independently work through the material, actively participate in discussions on the blog, deliver all required assignments on time and join a distance delivered learning session with the other participants on the times indicated.

Quizzes missed because of an excused absence, must be taken within one week after a student’s return to school. Because of logistical difficulties, some sessions and assignments may be difficult to make up, so be sure and talk with the instructor when you know that you will have to miss class(es).

Should school or class be officially cancelled (because of inclement weather, etc.), exams, quizzes, or

assignments due during that cancellation will be given or due the next scheduled class session.

Assignments submitted late without an authorized excuse will be subject to a 10% grade reduction for each day that the submission is delayed. Any make up work not completed by June 26, 2023 will receive a grade of zero (0) and this will be factored into your final grade.

Plagiarism/Academic integrity: Plagiarism and cheating are serious offenses and may result in failure on exams, papers, projects, or courses. The entire purpose of this class is to acquire useful skills. To cheat is to lose the opportunity to acquire skills.

Syllabus Addendum (Revised 8/22/2022)

COVID-19 statement: Students should keep up-to-date on the university's policies, practices, and mandates related to COVID-19 by regularly checking this website: <https://sites.google.com/alaska.edu/coronavirus/uaf?authuser=0> Further, students are expected to adhere to the university's policies, practices, and mandates and are subject to disciplinary actions if they do not comply.

Student protections statement: UAF embraces and grows a culture of respect, diversity, inclusion, and caring. Students at this university are protected against sexual harassment and discrimination (Title IX). Faculty members are designated as responsible employees which means they are required to report sexual misconduct. Graduate teaching assistants do not share the same reporting obligations. For more information on your rights as a student and the resources available to you to resolve problems, please go to the following site:

<https://catalog.uaf.edu/academics-regulations/students-rights-responsibilities/>.

Disability services statement: I will work with the Office of Disability Services to provide reasonable accommodation to students with disabilities.

ASUAF advocacy statement: The Associated Students of the University of Alaska Fairbanks, the student government of UAF, offers advocacy services to students who feel they are facing issues with staff, faculty, and/or other students specifically if these issues are hindering the ability of the student to succeed in their academics or go about their lives at the university. Students who wish to utilize these services can contact the Student Advocacy Director by visiting the ASUAF office or emailing asuaf.office@alaska.edu.

Student Academic Support:

- Speaking Center (907-474-5470, uaf-speakingcenter@alaska.edu, Gruening 507)
- Writing Center (907-474-5314, uaf-writing-center@alaska.edu, Gruening 8th floor)
- UAF Math Services, uaf-traccloud@alaska.edu, Chapman Building (for math fee paying students only)
- Developmental Math Lab, Gruening 406
- The Debbie Moses Learning Center at CTC (907-455-2860, 604 Barnette St, Room 120, <https://www.ctc.uaf.edu/student-services/student-success-center/>)
- For more information and resources, please see the Academic Advising Resource List (https://www.uaf.edu/advising/lr/SKM_364e19011717281.pdf)

Student Resources:

- Disability Services (907-474-5655, uaf-disability-services@alaska.edu, Whitaker 208)
- Student Health & Counseling [6 free counseling sessions] (907-474-7043, <https://www.uaf.edu/chc/appointments.php>, Gruening 215)
- Center for Student Rights and Responsibilities (907-474-7317, uaf-studentrights@alaska.edu, Eielson 110)
- Associated Students of the University of Alaska Fairbanks (ASUAF) or ASUAF Student Government (907-474-7355, asuaf.office@alaska.edu, Wood Center 119)

Nondiscrimination statement: The University of Alaska is an affirmative action/equal opportunity employer and educational institution. The University of Alaska does not discriminate on the basis of race, religion, color, national origin, citizenship, age, sex, physical or mental disability, status as a protected veteran, marital status, changes in marital status, pregnancy, childbirth or related medical conditions, parenthood, sexual orientation, gender identity, political affiliation or belief, genetic information, or other legally protected status. The University's

Syllabus Introduction to Ethnobotany, fully distance-delivered

University of Alaska Fairbanks
Kuskokwim Campus, CRCD

EBOT F100, Summer 2023
Lisa Strecker

commitment to nondiscrimination, including against sex discrimination, applies to students, employees, and applicants for admission and employment. Contact information, applicable laws, and complaint procedures are included on UA's statement of nondiscrimination available at www.alaska.edu/nondiscrimination.

For more information, contact:

UAF Department of Equity and Compliance
1692 Tok Lane, 3rd floor, Constitution Hall, Fairbanks, AK 99775
907-474-7300
uaf-deo@alaska.edu

Additional syllabi statement for courses including off-campus programs and research activities:

University Sponsored Off-Campus Programs and Research Activities

We want you to know that:

1. UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/nondiscrimination.
2. Incidents can be reported to your university's Equity and Compliance office (listed below) or online reporting portal. University of Alaska takes immediate, effective, and appropriate action to respond to reported acts of discrimination and harassment.
3. There are supportive measures available to individuals that may have experienced discrimination.
4. University of Alaska's Board of Regents' Policy & University Regulations (UA BoR P&R) 01.02.020 Nondiscrimination and 01.04 Sex and Gender-Based Discrimination under Title IX, go to: <http://alaska.edu/bor/policy-regulations/>.
5. UA BoR P&R apply at all university owned or operated sites, university sanctioned events, clinical sites and during all academic or research related travel that are university sponsored.

For further information on your rights and resources [click here](#).

Important Dates:

Last day for 100% refund:	June 2, 2023
Last day for withdrawal:	June 9, 2023 (with a W grade on transcript)
Last day for submissions to be considered for grading:	June 25, 2023

COURSE OUTLINE

UNIT I - Field of Ethnobotany (week 1: 5/15 - 5/21/2023)

1. Join our first Zoom call on Monday evening, 4-6pm (1. mandatory meeting).
<https://alaska.zoom.us/j/98144808854?pwd=b1VtMWQ1ajhJbndyTmZJY1hobk9kdz09>
Password: EBOT
2. Read Nolan, J. M., & Turner, N. J. (2011) Ethnobotany: The Study of People-Plant Relationships. *Ethnobotany: The study of people-plant relationships*. In E.N. Anderson, D. Pearsall, E. Hunn, and N. Turner (eds.) *Ethnobiology* pp. 133-145. Hoboken: Wiley & Sons.
3. Create **Discussion post #1** – Create a blog post about ‘Plants I Live With’ to introduce your classmates to five plants that you encounter on a daily basis. Please provide illustrations (photographs with captions; captions should indicate what the image shows as well as the source of the image) and the complete and correct scientific name (*Genus species* AUTHOR). Explain the role of these plants in your life (due Wednesday). Reply to at least two of your classmates’ #1 blog posts (due Friday).
4. Read pages 93-95 of C. Parker’s ‘Introduction to Ethnobotany Manual’. Verify all your Latin/scientific

plant names in blog post 1 on the website of the Integrated Taxonomic Information System (itis.gov) or another authoritative database. Yes, cultural plants have scientific plant names, too! Students from outside of Alaska: If your plant is not listed on ITIS, please use a different, comparable database, e.g. World Flora Online.

5. Answer questions about the readings (Nolan & Turner and Parker) in **Quiz 1 (Quiz 1 A and Quiz 1 B)** (due Wednesday).
6. Watch Introduction to 'The Culture of Ethnobotany' by ethnobotanist Will McClatchey. This video was created as part of a series of online lectures by the Ethnobotany Program at the University of Hawai'i. Unfortunately, this program was discontinued a few years ago. The Ethnobotany of Alaska Program has a slightly different scope than the merely academically focused Hawai'ian counterpart but nevertheless, the teaching materials were generously made public and are a trove of knowledge and inspiration for the ethnobotany community.
7. Complete the **Quiz 2** on Canvas – Evaluating McClatchy's 'Introduction to the Culture of Ethnobotany' (due Friday).
8. Create **Discussion post #2** – Share your thoughts about the McClatchey video and the Nolan & Turner paper on the class blog (due Friday) and respond to two of your classmates postings (due Sunday).
9. **Field Notebook post #1.** Nature immersion. Create your Field Notebook post for Week I. For your field notebook entries, you are welcome to use materials from your notebook (e.g. drawings, pictures from entries) and photographs (due Sunday).
 - **Find your walk.** Pick a walk that you can do on a regular basis (at least once a week). On that walk, find a spot where you can sit comfortably. 3 x 1h (Weeks II, IV, VI).
 - **Pick some plant friends** on your walk; plants that you are going to describe and observe every time you come here. Provide descriptions of your plants using your own words that would allow any person to recognize them. In your first observation, you are not required to know the common or scientific name of the plant. Based on your observations, just give it a name that you think is fitting! Considering the time of the year, please pick some deciduous plant branches and bring them inside to sprout.
10. Over the weekend, think of a plant for each of your course projects: during EBOT 100, you will conduct two ethnobotanical projects; a hands-on ethnobotanical project (Project A) and an ethnobotanical research project (Project B, final).
 - **Hands-on ethnobotanical project (Project A).** Choose a plant that you would like to learn more about. Ideally, you pick a plant that grows somewhere along your plant walk (as a second choice option, find a plant that grows in your surrounding or that you listed under Plants That I Live With). You will make a herbarium specimen and draw the plant to point out characteristic morphological features. You will conduct a hands-on ethnobotanical project of your own choice, document your project, and write a project blog post. You will learn more about these tasks later in the course. For now, submit the name of the plant (or a picture if you don't know the name yet) and the project idea that you have chosen for your hands-on ethnobotanical project to your instructor via email (lstrecker@alaska.edu) no later than next Monday.
 - **Ethnobotanical research project (Project B).** Please have a look at the list of tundra plants provided in our shared course folder in google drive and choose one (and enter the name onto the List of Student Project Plants (google drive) no later than next Monday). You will conduct ethnobotanical research using primary and secondary sources. As we won't be able to talk to Elders in Bethel in person this summer, please meet Elders and other knowledge holders through recorded interviews and conversations. The UAF Rasmuson library has rich archives of sound and film recording that we will tap into for information regarding the use of plants in Alaska's Indigenous cultures. All recordings can be accessed through the course folder on google drive.

UNIT II - Plant Anatomy, Physiology, and Morphology (week 2: 5/22 - 5/28/2023)

1. Submit the names of your two project plants (one for your hands-on project (Project A) and one for your research project (Project B) to your instructor by Monday.
2. Before beginning Unit II, please complete the **Quiz 3** (Unit I recap assessment) on Canvas – Ethnobotany Basics (due Monday).
3. Read: Guertin et al. 'Introduction', pages 5-19, 'Stems & Buds', page 20-27, and 'Roots', page 28-31. You can find a digital version of Guertin et al. on Canvas.
4. Create **Discussion post #3** – in 'Plants That I Eat' describe five plants whose stems, buds, and/or roots you regularly consume. Please provide illustrations (photographs with captions) and the complete and correct scientific name (*Genus species* AUTHOR) for each of the plants that you share. Also, in your posting, please describe how you use this plant, harvest this plant (if it is not cultivated), why you like to eat this plant, and a family story or familial connection that you may have to this plant (due Tuesday).
5. Read: Guertin et al.— Leaves, page 32-41.
6. Complete **Assignment 1** – Plant Leaf Forms - Take your camera or notebook and go outside to visit some of the plants that you live with, include the plant for your hands-on project. Find leaves from eight different plants and have a close look at them. Try to recognize and name forms, structures and patterns that you learned from reading Guertin et al. on pages 31-41 and as outlined on Canvas (Unit II). Take pictures or make drawings of the leaves and identify the parts and forms of the leaves in your drawing or on the photographs. Once you're done, please upload your pieces of art as photographs or scans to your instructor by uploading them into the folder 'plant leaf forms' on the google drive. Make sure to have your name in the name of the file (due Wednesday).
7. Read: Guertin et al. 'Flowers and Inflorescences', page 42-49 and 'Reproduction & Fruits', pages 50-53.
8. **Discussion post #4** – Create a full drawing of your hands-on project plant and note as many morphological features as you can identify; include the description of the leaves as outlined in Assignment 1. If possible, choose a plant sample with flowers and/ or fruits. Create Discussion post #4 My Plant's Morphology, upload a scan/photograph of your drawing and introduce your plant to your classmates in no more than 2 paragraphs. These paragraphs should include why you've chosen this plant, and any special or unique features of this plant that fascinate you (due Thursday). Reply to at least two of your classmates' #4 blog postings (due Saturday).
9. Watch the demonstration 'Making Herbarium Specimens: Pressing Plants' (by Steffi Ickert-Bond) and the video 'What in the World is a Herbarium' (on CANVAS)?
10. Read: Nesbitt 2014 'Use of Herbarium Specimens in Ethnobotany'. *Curating Biocultural Collections*. Kew: Royal Botanic Gardens, pp. 313-28. (on CANVAS).
11. **Assignment 2: Herbarium specimen:** Find a representative sample of your plant to make a herbarium specimen. Make sure that you choose a plant that shows all characteristic traits, including roots, flowers and/or seeds. Press and dry the plant, use paper glue to mount the dried plant on a sheet of thicker paper or cardstock (letter size or larger), add the filled out herbarium label. It is understood that the drying and mounting of the plant will need some time. Start creating your Assignment #2 post by posting an image of your plant or the process of pressing it (due Sunday). Finish the entry by posting an image of the final product (no later than Sunday of Week 3). For more details and instructions, look up Instruction for Assignment 2: Herbarium Specimen on CANVAS.
12. Complete **Quiz 4** – Plant Morphology (due Saturday).

13. **Field Notebook post #2.** Go for your plant walk, take your notebook and camera along. Create an illustrated Field Notebook post (Week II) about your first Immersion; spend one hour sitting alone and observe your surroundings. Leave your phone at home, just listen and watch. Before getting up, take your notebook and jot down your observations; e.g. what you saw and heard, but also how you felt and if your perception changed, how you experienced the assignment; Include photographs (or drawings) of your walk in your blog post (due Sunday).

UNIT III – Plant Taxonomies (week 3: 5/29 - 6/4/2023)

1. **Quiz 5** Recap: Herbarium Collections (due Monday)
2. Watch Thomas Elpel's video 'Botany in a Day'. Check out additional resources for plant families on CANVAS (Parker, Elpel, Struwe).
3. Complete **Assignment 3** Recorded Mini-Introduction to Plant Families. Record a mini-introduction (about 2 minutes long) about the family of your hands-on project plant. The mini-introduction should include the key features of the plant family; point out typical features of the plant family on your plant. To create the mini-introduction, you can either record a video in which you point out the key characteristics of the plant family and your plant, or create a PowerPoint presentation and record your audio to accompany the slides as you present.

If you choose the video option, please keep in mind that this video is meant to introduce the plant family and its characteristic features and not you as a presenter. Make sure to show what you talk about. Videos can be posted to your UAF webmail YouTube account, which can be accessed via the upper right corner of your webmail account: click on the nine little squares and scroll down to the bottom where it says 'more', there you'll find your YouTube account. Here you can upload the recorded video. Please copy and paste the link to the video and email it to your instructor. You are welcome to use any other video streaming platform as well. DO NOT upload the video onto Canvas.

If you choose the recorded PowerPoint presentation, please do not use the recording function embedded in PowerPoint but use free online screencast recorders, such as <https://screencast-o-matic.com/> or <https://www.screencastify.com/> (a Chrome browser plugin). At the end, you will be able to download your presentation as a mp4 file that you then upload the same way as the video (see above). You will be graded for content (40%), visuals (40%), language (10%), and citations (10%); (due Tuesday).

4. Create **Discussion post #5** – My Project Plants' Relatives: Find out which plant family your project plants (Projects A and B) belong to; e.g. by checking on itis.gov. Have a close look at both of your project plants and try to identify the key characteristics of the plant's family on the plant. For key characteristics of each plant's family, please refer to the following resources by Elpel, Parker (on CANVAS) and Struwe (on CANVAS). For your blog post, you can create a drawing of your plant and label the family's characteristics (and upload the images into your blog), or you write a descriptive paragraph for each plant (due Tuesday).
5. Watch Will McClatchey's presentation on taxonomy. Take your time to watch the video and try to write down the key concepts while you watch.
6. Complete **Quiz 6** – Respond to the questions about the Taxonomy video on Canvas (due Wednesday).
7. With your new ideas of taxonomy in mind, have a closer look at 'Plants that we Eat' by Anore Jones (course book) as well as 'A Guide to the Ethnobotany of the Yukon-Kuskokwim Region' by Kevin Jernigan et al. Think about how these books are organized and why? Take notes.
8. Create **Discussion post #6** – Language and human-plant interactions. Post your thoughts about taxonomy and the role of language in human plant interactions. Draw information from the Taxonomy video as well as from Anore Jones' 'Plants That We Eat' and Kevin Jernigan's 'A Guide to the Ethnobotany of the Yukon-Kuskokwim Region'; add your observations and thoughts of the previous task (due Thursday).
9. **Finalize your post for Assignment 2**, Herbarium Specimen by Sunday.

10. **Field Notebook post #3.** Go for your plant walk and visit your plant friends! Create your **Field Notebook** post for Week III by Sunday.
11. Start your blog post for your hands-on project (Project A), draft version due by Sunday. If you would like to receive feedback before grading, please let your instructor know via email before the final submission date for the Project A (hands-on) post next week (week 4) on Thursday.

UNIT IV - Preparing for Ethnobotanical Research (week 4: 6/5 - 6/11/2023)

1. Learn more about ethnobotanical research methods by reading [Qualitative Methods](#) on the Research Methods Knowledge Base by the Webcenter for Social Research Methods.
2. Watch [Devil's Club: Tlingit Traditions of Helen Watkins](#) by Sarah Betcher / UA Museum of the North. Take notes with following assignment in mind:
3. Create **Discussion post #7** – Practicing Participant Observation: Focusing on one of the four listed video segments (0:00 – 1:30; 1:50 – 3:50; 5:38 – 7:20; or 11:45 – 15:22) in [Devil's Club: Tlingit Traditions of Helen Watkins](#), in two paragraphs, discuss some of the information you could document if you were conducting participant observation with Helen Watkins as she harvests and processes Devil's Club. Include concepts that you learned from task Unit IV, 1. Be sure to share some of your observations, and noted patterns or dynamics of the situation that surprised you. Please be sure to note which video segment your posting focuses on and, as always, respond to two of your classmates' Blog 7 postings (due Monday)
4. Finish your **blog post for your hands-on project (Project A)** by Thursday. If you need general support in writing this paper or would like someone to proofread it, please contact the UAF writing center (www.uaf.edu/english/writing-center).
5. Unsure of how to pronounce scientific plant names? Consult google translate (<https://translate.google.com>) for pronunciation!
6. Join the class for student presentations via Zoom on Friday, June 23, 2023, 6-8 pm and present your hands-on project to your peers (project A). No need to create presentation slides, just use your illustrated project post. You will have 5 minutes to present your project to the class. (2. mandatory meeting)
7. **Field Notebook post #4.** Get ready for your second immersion. Share your experience in your post (due Sunday).
8. As a preparation for your upcoming blog post, watch contemporary videos about Bethel and the Yup'ik culture of the YK Delta (links on Canvas).

UNIT V – People and Plants of Western Alaska I (week 5: 6/12 - 6/18/2023)

1. **Discussion post #8:** In the present section of the EBOT 100 online course, we are about to venture into an ethnobotanical research project. In order to be able to study the relationship of a group of people to their plants, one has to learn as much about the place and the people as possible. In Discussion post #9, please share some impressions and thoughts from watching the videos (1-2 hours) about contemporary Yup'ik culture (due Monday).
2. **Tundra.** Please familiarize yourself with the vegetation of Western Alaska by learning about the tundra and plant adaptations to the growing conditions of the tundra biome (Click [here](#) and [here](#), click on 'plants', too).
3. Take **Quiz 7: Tundra Recap** on Canvas (Tuesday)
4. **Listen to the recordings containing ethnobotanical information.** The oral history recordings that you will analyze for your ethnobotanical study can be found in the respective folder in google drive. Listening to recordings is work and requires attention; you might need to take frequent breaks while listening or will have to repeat some sections. Listen for information pertaining to your personal research project plant and knowledge related to its use; write out key passages and the time stamp. You

will need this information to be able to properly cite your sources of information. Please allow for sufficient time to do your research. Overall, you will be required to listen to at least 150 minutes of recording.

5. Write **Discussion post #9** about your experience of listening to the recordings. What did you find out about your plant so far? What else did you learn? Any unexpected information? (Due Wednesday)
6. **Extra credit (optional)** – choose a recording that doesn't have a summarized transcript yet, listen to the recording and write up a transcript. Please refer to the transcript guidelines to comply with the expectations of the oral history archive. Your effort will be rewarded with an extra credit point (will be added to your final grade!). You can earn no more than three extra credit points by writing transcripts. Before starting your work, please get in touch with your instructor to avoid that another student is already working on the transcript you chose (submit no later than June 26, 2023).
7. Start writing on your final blog post about your ethnobotanical research project (Project B). Post a draft of your research project post (Project B) no later than Sunday.
8. Read a resource specific to your research project plant (= tundra plant); the reading will be emailed to you. In your upcoming Discussion post #10 (due next week), you will summarize the content of the reading and present it together with the information that you retrieved from the recordings about your tundra plant.
9. **Field Notebook post #5:** Go on your plant walk, check in with your plant friends. How have they changed? Pay attention to the environment they are growing in. How would you describe their habitat and the plant communities they are part of? Take notes in your notebook, make drawings and take pictures; share your notebook entries and images in your post (due Sunday).

UNIT VI – People and Plants of Western Alaska II (week 6: 6/19 - 6/23/2023)

1. **Discussion post #10:** Synthesize the information about your tundra plant from your reading (see Unit V, 8.) the oral history recordings, the corresponding pages and sections in our course book (Plants That We Eat) and A Guide to the Ethnobotany of the Yukon-Kuskokwim Region by Jernigan et al. You are more than welcome to add information from any other resource that you found. Always make sure that you cite your sources properly (use in-text citations including the page, e.g. Jones 2010:34, provide full reference list at the end). Provide common names of the plant in Indigenous language(s) (make sure to add the name of the language or local dialect and your source) and English as well as the full scientific name of your plant and the plant family. (Due Monday)
2. **Assignment #4 - Flashcard:** Provide information about your field course project plant to the EBOT program's flashcard collection. Find the empty template in the flashcard folder in google drive and upload the completed file back into the same folder. Make sure you include your name, your plant's name and the year in the file name; e.g. EBOT 100 2023 Flashcard Smith Fireweed. (Due Wednesday)
3. Finish writing your **research project post (Project B)**. Create a detailed and illustrated blog post about your field course project, the plant, the knowledge you gained from the recordings and readings (=Discussion post #10). Make sure to include the full scientific name of the plant, the plant's family, common name(s), description and distribution of the plant, general cultural importance and mainly, how it is used by people in Alaska. You are more than welcome to comment on other student's final blog posts, but it is not a requirement for your grade. Write 1000-2000 words (including references), submit no later than Thursday.
4. Join the final Zoom conference (3. mandatory meeting) and present one of your projects (A or B) to our group and visitors (you are welcome to invite visitors for this occasion!) on Friday, June 23, 2023, 6-8 pm.
5. **Field Notebook post VI.** Get ready for your third immersion. Share your thoughts and experience in your last field notebook post. Due Friday.

Last day for submissions to be considered for grading: Sunday, June 25, 2023