TRIAL COURSE OR NEW COURSE PROPOSAL

SUBMITTED BY:
Department: Kuskokwim Campus
Prepared by: Rose Meier
Email Contact: fnram2@uaf.edu

1. ACTION DESIRED
(CHECK ONE):
Trial Course
New Course X

2. COURSE IDENTIFICATION:
Dept  EBOT  Course #  230  No. of Credits  3

Justify upper/lower division status & number of credits:

3. PROPOSED COURSE TITLE:
Ethnobotanical Chemistry

4. CROSS LISTED?
YES/NO
No

If yes, Dept:

(Requires approval of both departments and deans involved. Add lines at end of form for such signatures.)

5. STACKED?
YES/NO
No

If yes, Dept:

6. FREQUENCY OF OFFERING:
Every Fall
(Every or Alternate) Fall, Spring, Summer - or As Demand Warrants

7. SEMESTER & YEAR OF FIRST OFFERING (if approved): Fall 2009

8. COURSE FORMAT:
Note: Course hours may not be compressed into fewer than three days per credit. Any course compressed into fewer than six weeks must be approved by the college or school's curriculum council. Furthermore, any core course compressed to less than six weeks must be approved by the core review committee.

COURSE FORMAT:
(check one)
1 2 3 4 5 X 6 weeks to full semester

OTHER FORMAT
(specify)
Mode of delivery
(specify lecture, field trips, labs, etc)

9. CONTACT HOURS PER WEEK:
2400 min
LECTURE hours/weeks
LAB hours/week
PRACTICUM hours/week

Note: # of credits are based on contact hours. 800 minutes of lecture=1 credit. 2400 minutes of lab in a science course=1 credit. 1600 minutes in non-science lab=1 credit. 2400-4800 minutes of practicum=1 credit. 2400-8000 minutes of internship=1 credit. This must match with the syllabus. See http://www.uaf.edu/uafgov/faculty/cd/credits.html for more information on number of credits.

OTHER HOURS (specify type)

10. COMPLETE CATALOG DESCRIPTION including dept., number, title and credits (50 words or less, if possible):
This course will provide the student with a basic understanding of chemical structure and function of medicinally active plant compounds. With this knowledge the student will be able to discern how and why plants produce primary and secondary compounds, learn how humans have made use of these compounds, and be introduced to methods used to isolate and deliver plant-derived compounds. Case studies will be used to illustrate how drugs are derived from plants, and the ethics of bioprospecting will be discussed. Class time will also be devoted to studying medicinal flora of Alaska from a chemical perspective.

11. COURSE CLASSIFICATIONS: (undergraduate courses only. Use approved criteria found on Page 10 & 17 of the manual. If justification is needed, attach on separate sheet.)

   H = Humanities  N = Natural Science  S = Social Sciences

   Will this course be used to fulfill a requirement for the baccalaureate core?  YES  X  NO

   IF YES, check which core requirements it could be used to fulfill:
   O = Oral Intensive, Format 6  W = Writing Intensive, Format 7  Natural Science, Format 8

12. COURSE REPEATABILITY:

   Is this course repeatable for credit?  YES  X  NO

   Justification:  Indicate why the course can be repeated (for example, the course follows a different theme each time).

   How many times may the course be repeated for credit? TIMES

   If the course can be repeated with variable credit, what is the maximum number of credit hours that may be earned for this course? CREDITS

13. GRADING SYSTEM:

   LETTER:  X  PASS/FAIL:  

14. PREREQUISITES

   EBOT 100
   These will be required before the student is allowed to enroll in the course.

   RECOMMENDED
   CHEM 103X
   Classes, etc. that student is strongly encouraged to complete prior to this course.

15. SPECIAL RESTRICTIONS, CONDITIONS

   None

16. PROPOSED COURSE FEES

   $  Has a memo been submitted through your dean to the Provost & VCAS for

17. PREVIOUS HISTORY

   Has the course been offered as special topics or trial course previously? Yes/No

   If yes, give semester, year, course #, etc.:  

18. ESTIMATED IMPACT

   If the course is taught via distance delivery no facility space is necessary for this course. If it is taught on-site, local donated facilities will be used. KuC is both a traditional campus and a campus without walls. One full-time faculty member and one program coordinator have already been hired.

19. LIBRARY COLLECTIONS

   Have you contacted the library collection development officer (ffklj@uaf.edu, 474-
20. IMPACTS ON PROGRAMS/DEPTS
What programs/departments will be affected by this proposed action? Include information on the Programs/Departments contacted (e.g., email, memo)

Ethnobotany Certificate Program

21. POSITIVE AND NEGATIVE IMPACTS
Please specify positive and negative impacts on other courses, programs and departments resulting from the proposed action.

This course will prepare and motivate students interested in pursuing education in ethnobotany and other fields, such as science, anthropology, linguistics, etc.

JUSTIFICATION FOR ACTION REQUESTED
The purpose of the department and campus-wide curriculum committees is to scrutinize course change and new course applications to make sure that the quality of UAF education is not lowered as a result of the proposed change. Please address this in your response. This section needs to be self-explanatory. Use as much space as needed to fully justify the proposed course.

This course is a requirement for the proposed Certificate in Ethnobotany (EBOT) program, submitted for UAF approval 24 September 2008.

APPROVALS: SEE ATTACHED PAGES

Signature, Chair, Program/Department of: Date

Signature, Chair, College/School Curriculum Council for: Date

Signature, Dean, College/School of: Date

Signature of Provost (if applicable)
Offerings above the level of approved programs must be approved in advance by the Provost.

ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE

Signature, Chair, UAF Faculty Senate Curriculum Review Committee Date
services available for the proposed course? If so, give date of contact and resolution. If not, explain why not.

No [ ] Yes [x] On 24 September 2008, Karen Jensen was forwarded the Format 3 for the Ethnobotany Program and is “satisfied that the library system can provide adequate resources for all EBOT courses”.

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APPROVALS:

[Signature, Chair, Program/Department of:]

Ethnobotany

Date 30 October 2008

[Signature, Chair, College/School Curriculum Council for:]

Date

[Signature, Dean, College/School of:]

Date

Signature of Provost (if applicable)
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[Signature, Chair, UAF Faculty Senate Curriculum Review Committee]

Date
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<tr>
<th>Signature, Chair, Program/Department of:</th>
<th>Natural Science</th>
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<tr>
<td>Date</td>
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APPROVALS:

Signature, Chair, Program/Department of:

Date

Signature, Chair, College/School Curriculum Council for:

Date 10/29/08

Signature, Dean, College/School of:

Date

Signature of Provost (if applicable)
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Signature, Chair, UAF Faculty Senate Curriculum Review Committee

Date
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APPROVALS:

As Per Attached
Signature, Chair, Program/Department of:

As Per Attached Division Chair
Signature, Chair, College/School Curriculum Council for:

Pete Finley
Signature, Dean, College/School of:

Date 10/20/08

Signature of Provost (if applicable)
Offerings above the level of approved programs must be approved in advance by the Provost.

ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE

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ATTACH COMPLETE SYLLABUS (as part of this application).

Note: syllabus must follow the guidelines discussed in the Faculty Senate Guide
http://www.uaf.edu/uafgov/faculty/cd/syllabus.html.

The department and campus wide curriculum committees will review the syllabus to
ensure that each of the items listed below are included. If items are missing or
unclear, the proposed course change will be denied.

SYLLABUS CHECKLIST FOR ALL UAF COURSES

During the first week of class, instructors will distribute a course syllabus.
Although modifications may be made throughout the semester, this document will
contain the following information (as applicable to the discipline):

1. Course information:
   - Title, number, credits, prerequisites, location, meeting time
     (make sure that contact hours are in line with credits).

2. Instructor (and if applicable, Teaching Assistant) information:
   - Name, office location, office hours, telephone, email address.

3. Course readings/materials:
   - Course textbook title, author, edition/publisher.
   - Supplementary readings (indicate whether required or recommended) and
     any supplies required.

4. Course description:
   - Content of the course and how it fits into the broader curriculum;
   - Expected proficiencies required to undertake the course, if applicable.
   - Inclusion of catalog description is strongly recommended, and
   - Description in syllabus must be consistent with catalog course
description.

5. Course Goals (general) and Student Learning Outcomes (more specific)

6. Instructional methods:
   - Describe the teaching techniques (eg: lecture, case study, small group
discussion, private instruction, studio instruction, values clarification,
games, journal writing, use of Blackboard, audio/video conferencing, etc.).

7. Course calendar:
   - A schedule of class topics and assignments must be included. Be specific
     so that it is clear that the instructor has thought this through and will
     not be making it up on the fly (e.g. it is not adequate to say “lab”.
     Instead, give each lab a title that describes its content). You may call
the outline Tentative or Work in Progress to allow for modifications during
the semester.

8. Course policies:
   - Specify course rules, including your policies on attendance, tardiness,
class participation, make-up exams, and plagiarism/academic integrity.

9. Evaluation:
   - Specify how students will be evaluated, what factors will be
     included, their relative value, and
   - how they will be tabulated into grades (on a curve, absolute scores,
etc.)

10. Support Services:
    - Describe the student support services such as tutoring (local and/or
regional) appropriate for the course.

11. Disabilities Services:
    The Office of Disability Services implements the Americans with Disabilities
    Act (ADA), and insures that UAF students have equal access to the campus and
course materials.
    - State that you will work with the Office of Disabilities Services (203
      WHIT, 474-7043) to provide reasonable accommodation to students with
disabilities.”
Course Information:
Location: Distance Delivery

Instructor:
Kevin Jernigan       Room 113, KuC
                   P.O. Box 368
                   Bethel, Alaska, 99559
                   907-543-4576; 907-474-4527 (fax)
                   lfkaj@uaf.edu
                   Assistant Professor, Ethnobotany

Office Hours:
Arranged by appointment.

Course Calendar:
This course will be held for 1.5 hours per session, 2 sessions per week, for 14 weeks.

Course Description:
This course will provide the student with a basic understanding of chemical structure and function of medicinally active plant compounds. With this knowledge the student will be able to discern how and why plants produce primary and secondary compounds, learn how humans have made use of these compounds, and be introduced to methods used to isolate and deliver plant-derived compounds. Case studies will be used to illustrate how drugs are derived from plants, and the ethics of bioprospecting will be discussed. Class time will also be devoted to studying medicinal flora of Alaska from a chemical perspective.

Course Objectives:
Upon successful completion of this course, the student will:
• Learn basic chemical concepts such as bonding and molecular properties,
• Gain an understanding of primary and secondary metabolic pathways in plants,
• Become familiar with the major groups of active plant compounds,
• Learn more about Alaskan medicinal plants from a chemical perspective,
• Better understand historical uses of plants by indigenous peoples, and present day uses of plant drugs,
• Become aware of the complexities in ethics of ethnobotanical research.

Resources & Materials,
Required Texts:


Garibaldi, Ann, Medicinal Flora of the Alaska natives: A compilation of knowledge from literary sources of Aleut, Alutiq, Athabascan, Eyak, Haida, Inupiat, Tlingit, Tsimshian, traditional healing methods using plants. available free online at:
http://aknhp. uaa. alaska. edu/traditional_use/.

Readings from texts and supplementary materials provided by the instructors are to be read as assigned, and completed by the next class period. If reading material raises questions that you
have or introduces material that you are especially interested in, we will discuss your questions or interests in more detail during the scheduled class period. **You must do the readings as they provide background for lectures, and because you will need to use the material when you prepare for quizzes, and write the final exam.** From time to time throughout the semester the instructors may assign additional reading material, with these not necessarily listed in the course outline below.

**Instructional Methods:**
Lectures will be distance-delivered via the internet, using **ELuminate Live**. All participants will be able to download necessary software from the internet in order to participate in the course. **ELuminate Live** provides for live, interactive discussion and recording of all classes, allowing for later review by students. Students may use email, phone, or fax to ask questions outside of class. In addition to the course texts, supplementary readings, lecture materials, course hand-outs, etc., will be posted on the Blackboard portion of the UAF Website.

Students taking this class are required to have an email address, basic computer skills, and reliable computer internet access for all class sessions (this can be dialup access). Windows, MAC or Unix computer (less than 3 years old) with 64 MB RAM and sound card, computer headset (headphones with microphone) are required. Students must contact the program at (800) 478-5822 before the course starts, have downloaded software, setup their headset, and run through a trial run **ELuminate Live** session before the first class so they will be prepared.

All exams are open book. Quizzes will be administered via Blackboard during class time and the final exam will be a take-home test.

**Course Content:** See Lecture Schedule (page 6)

**Evaluation & Grading:**

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<th>Element</th>
<th>Number</th>
<th>Points Each</th>
<th>Total Points</th>
<th>Percent of Grade</th>
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<tbody>
<tr>
<td>Class Participation</td>
<td></td>
<td></td>
<td>20</td>
<td>9%</td>
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<tr>
<td>Quizzes</td>
<td>6</td>
<td>25</td>
<td>150</td>
<td>68%</td>
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<tr>
<td>Final Exam</td>
<td>1</td>
<td>50</td>
<td>50</td>
<td>23%</td>
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<thead>
<tr>
<th>Grading Scale (based upon the percentage of total possible points):</th>
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<tr>
<td><strong>A</strong> 90% or higher</td>
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<td><strong>B</strong> 80 – 89%</td>
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<td><strong>C</strong> 70-79%</td>
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<td><strong>D</strong> 60-69%</td>
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<td><strong>F</strong> less than 60%</td>
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<tr>
<td><strong>I</strong> Incomplete grades</td>
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([http://www.uaf.edu/catalog/catalog_08-09/academics/regs1.html](http://www.uaf.edu/catalog/catalog_08-09/academics/regs1.html))
Policies & Procedures:

Time Commitment: College level science courses customarily require at least 2 to 3 hours of time outside of class (for reading, study, and preparation) for each hour spent in class. 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 attend each class session, to be on time, and to remain for the entire session. Late arrivals and early departures are disruptive and unfair to other students.

Exams and 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 class period that the submission is delayed. Any make up work not completed by XX/XX/XX will receive a grade of zero (0) and this will be factored into your final grade.

Reading: Students are expected to have read the material listed in the attached Lecture Schedule prior to class, and to be prepared to participate in class discussions and activities with comments, questions, and observations. Your participation is both required and highly valued, and will count as part of the final grade.

Student Support Services:
Fairbanks main Campus, call (907) 474-6844
Bristol Bay Campus, call (800) 478-5109
Chukchi Campus, call (800) 478-3402
Interior-Aleutians Campus, call (888) 474-5207
Kuskokwim Campus, call (800) 478-5822
Northwest Campus, call (800) 478-2202

Rural Student Services
http://www.uaf.edu/ruralss/
Rural Student Services (RSS) is an academic advising department with over 35 years of experience in working with students from all over the state of Alaska. They are here to assist you in achieving student success by linking you to current information pertinent to your education, lifestyle, and goals. RSS is known for its welcoming and friendly environment. Many students find a meaningful connection at UAF through RSS.

They can help you with:
* Academic Requirements
* Registration for Classes
* Finding Financial Aid
* Explaining Housing Options
* Declaring a Major
* Career Exploration

CONTACT RSS AT:
P.O. Box 756320, Fairbanks, AK 99775-6320
1-888-478-1452 (Toll Free within Alaska) or (907) 474-7871
Email us at fyrss@uaf.edu

Math Help Line
Contact UAF’s toll-free Math Hotline for problem solving and math help. Call 866-823-6284 (1-866-UAF-MATH) during regular fall and spring semesters.
Writing Center
http://www.alaska.edu/english/studentresources/writing/
The Writing Center is a student-staffed, student-oriented service of the English Department.
801 Gruening Bldg., P.O. Box 755720
Fairbanks, Alaska 99775-5720
Phone: (907) 474-5314
Fax: 1-800-478-5246
* The UAF Writing Center and Computer Lab offers free writing tutoring to any student in any subject via telephone and fax or over the Internet. Students can call 907-474-5314 for information on how to fax a paper and have it tutored over the telephone, or engage in an interactive Internet session. Both services are free.

Library Services for off campus students
http://library.uaf.edu/offcampus
Off-Campus Library Services is a unit set up to serve rural UAF students and faculty who do not have access to appropriate information resources in their town or village. They work in support of the College of Rural & Community Development and The Center for Distance Education and Independent Learning, and can supply your information needs for the courses you are taking. For example, if a research paper is required in the teleconference or correspondence course that you are taking, you can contact them, explain your information need, and they will send library materials to you so that you can write your paper.

Contact the Library at:
Off-Campus Services, Elmer E. Rasmuson Library
310 Tanana Loop, PO Box 756800
Fairbanks, Alaska USA 99775-6800
Phone: 1-800-478-5348 Email: fyddl@uaf.edu
For more off campus help go to:
http://www.uaf.edu/library/instruction/ls101/other/Distance_Resources.html

Disability Services: The Office of Disability Services implements the Americans with Disabilities Act (ADA), and insures that UAF students have equal access to the campus and course materials. State that you will work with the Office of Disabilities Services (203 WHIT-7043) to provide reasonable accommodation to students with disabilities:

UAF Disability Services for Distance Students:
UAF has a Disability Services office that operates in conjunction with the College of Rural Alaska's (CRA) campuses and UAF Center for Distance Education (CDE). Disability Services, a part of UAF's Center for Health and Counseling, provides academic accommodations to enrolled students who are identified as being eligible for these services.

If you believe you are eligible, please visit http://www.uaf.edu/chc/disability.html on the web or contact a student affairs staff person at your nearest local campus. You can also contact Disability Services on the Fairbanks Campus at (907) 474-7043, fydso@uaf.edu.

- General Information –

Policies of the College of Rural and Community Development (CRCD) are summarized in the Fall 2008 Schedule of Courses. Policies of the University of Alaska Fairbanks (UAF) are summarized in the 2008-2009 Catalog.

Student Behavior: Students at this institution are expected to contribute to the maintenance of an environment that is conducive to learning and respectful of others. Consequently, they are required to behave in accordance with acknowledged societal norms and are prohibited from engaging in behavior that is distracting to themselves or to others. Inappropriate behavior will result minimally in being asked to leave class immediately. Refrain from talking or making noise during lectures, laboratory sessions, and exams, although all contributions to and with the class are encouraged, with participation highly valued as part of your final grade.
**Study Skills:** This class requires good reading and study skills. If a student feels that he or she is falling behind, he or she should contact the instructor **immediately and we will work with you directly.** Issues of this type seldom resolve unless specific measures are taken in a timely fashion.

**Harassment:** CRA and UAF have specific policies regarding harassment, and harassment will not be tolerated. Anthropology students address subjects that are considered to be delicate by many individuals and cultures. Both students and faculty are expected to act and speak with sensitivity and respect.

**Use of College Equipment:** Students are expected to use their utmost care to assure the continued availability of campus resources.

**Drop/Withdrawal/Incomplete:** Ceasing attendance does not activate the drop, withdrawal, or incomplete grade process. The student must submit the appropriate forms for each of these processes by the published deadlines to end enrolment in this class. Failure to complete and submit the appropriate forms may result in a failing grade for this course on the student’s permanent transcript. Deadlines for drop and withdrawal are listed below. **All paperwork must be completed and submitted by these dates.** Be aware that the college has specific policies and procedures for the assignment of incomplete grades ([http://www.uaf.edu/catalog/catalog_08-09/academics/regs1.html](http://www.uaf.edu/catalog/catalog_08-09/academics/regs1.html)).

- Last Day for 100% Refund:
- Last Day for 50% Refund:
- Last Day for Withdraw:

**Safety:** Any accidents or injuries are to be reported to the instructor immediately.
COURSE OUTLINE: LECTURE TOPICS BY WEEK

WEEK 1
Session 1: Introduction, purpose, and objectives of this course. Historical perspective on medicinal botany

Read: The Natural History of Medicinal Plants, pages 9-10 and Chapter 1

Session 2: Acquiring knowledge of medicinal plants

Read: The Natural History of Medicinal Plants, Chapter 2

WEEK 2
Session 1: Medicinal plants in nature. Herbivory and allelopathy

Read: The Natural History of Medicinal Plants, Chapter 3

Session 2: Medicinal plants in nature. Pollination.
REVIEW FOR QUIZ 1

Read: The Natural History of Medicinal Plants, Chapter 3

WEEK 3
Session 1: Begin chemical structures: bonding and functional groups.
QUIZ 1

Read: Understanding Medicinal Plants, pages 9-16

Session 2: Chemical structures: naming molecules, formulae, and isomers

Read: Understanding Medicinal Plants, pages 17-24

WEEK 4
Session 1: Bonding and molecular properties: atoms, elements, periodic table

Read: Understanding Medicinal Plants, pages 25-46

Session 2: Bonding and molecular properties: molecular structure
REVIEW FOR QUIZ 2

Read: Understanding Medicinal Plants, pages 47-68

WEEK 5
Session 1: Review of basic chemical concepts
QUIZ 2

Session 2: Important chemical families in plants: Primary metabolism

Read: Understanding Medicinal Plants, pages 69-82
WEEK 6
Session 1: Plant chemistry as defense

Read: The Natural History of Medicinal Plants, Chapter 5

Session 2: Important chemical families in plants: Secondary metabolites.
REVIEW FOR QUIZ 3

Read: Understanding Medicinal Plants, pages 83-118

WEEK 7
Session 1: Important chemical families in plants: Secondary metabolites, continued.
QUIZ 3

Read: Understanding Medicinal Plants, pages 83-118

Session 2: Begin significant discoveries of useful plant chemistry

Read: The Natural History of Medicinal Plants, Chapter 6

WEEK 8
Session 1: Significant discoveries of useful plant chemistry, continued.

Read: The Natural History of Medicinal Plants, Chapter 6

Session 2: Behavior of medicinal molecules: isolation and analysis
REVIEW FOR QUIZ 4

Read: Understanding Medicinal Plants, pages 119-145

WEEK 9
Session 1: Behavior of medicinal molecules: antioxidants
QUIZ 4

Read: Understanding Medicinal Plants, pages 146-174

Session 2: Begin Drug delivery and action: targets

Read: Understanding Medicinal Plants, pages 175-188

WEEK 10
Session 1: Drug delivery and action: action at molecular level

Read: Understanding Medicinal Plants, pages 189-198

Session 2: Drug delivery and action: action at molecular level, continued.
REVIEW FOR QUIZ 5
Read:  Understanding Medicinal Plants, pages 189-198

**WEEK 11**
Session 1: Case studies: ayahuasca and gingko
**QUIZ 5**

Read: Understanding Medicinal Plants, pages 199-229

Session 2: Case studies: cancer treatments.

Read: Understanding Medicinal Plants, pages 230-250

**WEEK 12**
Session 1: Begin Alaskan medicinal plants

Read: Medicinal Flora of the Alaska Native. Pages 5-128

Session 2: Alaskan medicinal plants, continued.
**REVIEW FOR QUIZ 6**

Read: Medicinal Flora of the Alaska Native. Pages 5-128

**WEEK 13**
Session 1: Begin bioprospecting for new medicines
**QUIZ 6**

Read: The Natural History of Medicinal Plants, Chapter 8

Session 2: Bioprospecting for new medicines, continued
**ASSIGN FINAL TAKE HOME EXAM**

Read: The Natural History of Medicinal Plants, Chapter 8

**WEEK 14**
Session 1: Protection medicinal biodiversity and knowledge

Read: The Natural History of Medicinal Plants, Chapter 9

Session 2: Roundtable discussion to wrap up semester
**FINAL EXAM DUE**