TRIAL COURSE OR NEW COURSE PROPOSAL
(Attach copy of syllabus)

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<tr>
<th>SUBMITTED BY:</th>
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<tbody>
<tr>
<td>Department</td>
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<tr>
<td>Prepared by</td>
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<tr>
<td>Email Contact</td>
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<tr>
<td>College/School</td>
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<tr>
<td>Phone</td>
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<tr>
<td>Faculty Contact</td>
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1. ACTION DESIRED
(CHECK ONE):
- [ ] Trial Course
- [x] New Course

2. COURSE IDENTIFICATION:
- Dept: NRM
- Course #: 153
- No. of Credits: 1

Justify upper/lower division status & number of credits:
This is an introductory level course elective for undergraduate students in any major and for non-degree seeking students throughout the state.

3. PROPOSED COURSE TITLE:
Wild and Cultivated Berries of Alaska

4. To be CROSS LISTED?
- [ ] YES
- [x] NO

If yes, Dept: _, Course #:

NOTE: Cross-listing requires approval of both departments and deans involved. Add lines at end of form for additional required signatures.

5. To be STACKED?
- [ ] YES
- [ ] NO

If yes, Dept: _, Course #:

How will the two course levels differ from each other? How will each be taught at the appropriate level?:

* Use only one Format 1 form for the stacked course (not one for each level of the course!) and attach syllabi. Stacked course applications are reviewed by the (Undergraduate) Curricular Review Committee and by the Graduate Academic and Advising Committee. Creating two different syllabi (undergraduate and graduate versions) will help emphasize the different qualities of what are supposed to be two different courses. The committees will determine: 1) whether the two versions are sufficiently different (i.e. is there undergraduate and graduate level content being offered); 2) are undergraduates being overtaxed?; 3) are graduate students being undertaxed? In this context, the committees are looking out for the interests of the students taking the course. Typically, if either committee has qualms, they both do. More info online – see URL at top of this page.

6. FREQUENCY OF OFFERING:
Fall annually on campus, spring, distance delivery only

7. SEMESTER & YEAR OF FIRST OFFERING
(Effective AY2015-16 if approved by 3/31/2015; otherwise AY2016-17)
- Fall 2015

8. COURSE FORMAT:

<table>
<thead>
<tr>
<th>COURSE FORMAT: (check all that apply)</th>
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<td>[ ] 1</td>
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<table>
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<tr>
<th>OTHER FORMAT (specify)</th>
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<tbody>
<tr>
<td>Mode of delivery (specify lecture, field trips, labs, etc)</td>
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<tr>
<td>Course will be offered as an on-campus lecture that can be delivered statewide using smart classroom technology during a 6-week session, and as an asynchronous distance delivery class using Blackboard platform and a variety of tech tools.</td>
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</table>

9. CONTACT HOURS PER WEEK:

| 3 | LECTURE hours/week |
| [ ] | [
| LAB hours/week |
| [ ] | [
| PRACTICUM hours/week |

OTHER HOURS (specify type) 3 hours per week for 6 weeks

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 https://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/guidelines-for-computing/ for more information on number of credits.
10. **COMPLETE CATALOG DESCRIPTION** including dept., number, title, credits, credit distribution, cross-listings and/or stacking (50 words or less if possible):

*Example of a complete description:*

**FISH F487 W, O** Fisheries Management
3 Credits Offered Spring
Theory and practice of fisheries management, with an emphasis on strategies utilized for the management of freshwater and marine fisheries. Prerequisites: COMM F131X or COMM F141X; ENGL F111X; ENGL F211X or ENGL F213X; ENGL F414; FISH F425; or permission of instructor. Cross-listed with NRM F487. (3+0)

**NRM 153 Wild and Cultivated Berries for Alaska**
1 credit Fall, Spring
Introduction to cultivated fruit crops and Alaska wild berries. Course includes plant biology, management of wild berry stands, field cultivation, and uses of fruits including strawberries, blueberries, currants, gooseberries, cloudberries, raspberries and more. Prerequisites: High school biology or completion of Master Gardener Program recommended. (1+0)

11. **COURSE CLASSIFICATIONS:** Undergraduate courses only. Consult with CLA Curriculum Council to apply S or H classification appropriately; otherwise leave fields blank.

| H = Humanities | S = Social Sciences |

Will this course be used to fulfill a requirement for the baccalaureate core? **IF YES, attach form.**

| YES: | NO: x |

IF YES, check which core requirements it could be used to fulfill:

| O = Oral Intensive, Format 6 | W = Writing Intensive, Format 7 | X = Baccalaureate Core |

11A. Is course content related to northern, arctic or circumpolar studies? If yes, a "snowflake" symbol will be added in the printed Catalog, and flagged in Banner.

| YES | NO x |

12. **COURSE REPEATABILITY:**

Is this course repeatable for credit? **YES** | **NO** x

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

| TIMES | CREDITS |

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

| TIMES | CREDITS |

13. **GRADING SYSTEM:** Specify only one. Note: Changing the grading system for a course later on constitutes a Major Course Change – Format 2 form.

| LETTER: X | PASS/FAIL: |

14. **PREREQUISITES**

High school biology or completion of Master Gardener Program recommended

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

15. **SPECIAL RESTRICTIONS, CONDITIONS**

16. **PROPOSED COURSE FEES**

Has a memo been submitted through your dean to the Provost for fee approval? **Yes/No**
17. PREVIOUS HISTORY

Has the course been offered as special topics or trial course previously?

Yes/No: No

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

18. ESTIMATED IMPACT

WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.

Fall: on campus classroom, one faculty as part of full time commitment or adjunct status, spring- access to distance delivery technology particularly Blackboard, YouTube, Video/audio conferencing.

19. LIBRARY COLLECTIONS

Have you contacted the library collection development officer (kljensen@alaska.edu, 474-6695) with regard to the adequacy of library/media collections, equipment, and services available for the proposed course? If so, give date of contact and resolution. If not, explain why not.

No [x] Yes 

The faculty member has been conducting research in this area for more than 30 years. She has all the resources 

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)

It will be a lower division elective available to all undergraduates but will be especially useful for students in NRM, biology, AAS Renewable Resources.

21. POSITIVE AND NEGATIVE IMPACTS

Please specify positive and negative impacts on other courses, programs and departments resulting from the proposed action.

It will provide science-based information broadly across the state and was requested by non-degree seeking students and horticulture businesses. It will provide an introduction to our upper division classes in plant science where more in depth, physiological topics are covered. No negative impacts.

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.

We conducted a survey of horticulture businesses in spring 2013: (40 surveys sent statewide, 345 survey respondents). The response was overwhelmingly positive for science-based training in a wide array of horticulture/agronomy/soils topics. Information on Alaska native plant management and cultivation was third of the top ten requests by Alaskans for horticultural information. The addition of this course will provide solid, science-based education to a statewide audience and will allow our program to share results of 30 years of research with Alaskans. Our school is also working with CRCD on a re-vamping of the Renewable Resources Associates Degree. We will offer this class as an elective in that degree. We are also developing blended programs where high school students can take these one credit classes and earn credits toward an advanced degree. Our audience will expand to high school students, non-degree seeking students statewide, AAS degree students and NRM 4 year degree students.
APPROVALS: Add additional signature lines as needed.

<table>
<thead>
<tr>
<th>Signature, Chair, Program/Department of:</th>
<th>Date</th>
<th>10-7-14</th>
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<tbody>
<tr>
<td>Signature, Chair, College/School Curriculum Council for:</td>
<td>Date</td>
<td>10/13/14</td>
</tr>
<tr>
<td>Signature, Dean, College/School of:</td>
<td>Date</td>
<td>11/6/2014</td>
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Offerings above the level of approved programs must be approved in advance by the Provost.

<table>
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<tr>
<th>Signature of Provost (if above level of approved programs)</th>
<th>Date</th>
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ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE

<table>
<thead>
<tr>
<th>Signature, Chair</th>
<th>Date</th>
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<tr>
<td>Faculty Senate Review Committee: ^Curriculum Review ^GAAC ^Core Review ^SADAC</td>
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ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking)

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<td>Date</td>
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ATTACH COMPLETE SYLLABUS (as part of this application). This list is online at:
http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/uaf-syllabus-requirements/
The Faculty Senate 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
(or changes to it) may 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 (see #6)

6. Student Learning Outcomes (more specific)

7. 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.).

8. 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.

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

10. 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.) Publicize UAF regulations with regard to the grades of "C" and below as
        applicable to this course. (Not required in the syllabus, but is a convenient way to publicize this.) Link to PDF summary of grading
        policy for “C”:

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

12. Disabilities Services: Note that the phone# and location have been updated. http://www.uaf.edu/disability/
    The Office
    of Disability Services implements the Americans with Disabilities Act (ADA), and ensures that UAF students have equal access to the
    campus and course materials.
    - State that you will work with the Office of Disabilities Services (208 WHITAKER BLDG, 474-5655)to provide
      reasonable accommodation to students with disabilities.

5/21/2013
NRM 153 Wild and Cultivated Berries of Alaska

1 credit (1+0)
Prerequisites: none; recommended basic high school biology, Master Gardener Course
Location: 1W05 Arctic Health (AHRB)
Time: TBD

Instructor: Dr. Patricia S. Holloway
Office: 104AH Arctic Health Building; Georgeson Botanical Garden (Fairbanks Experiment Farm)
Office hours: TBA
Telephone: (907)474-6686
Email: psholloway@alaska.edu

Textbook: None. Assigned readings from various books

Course Description:
Introduction to cultivated fruit crops and Alaska wild berries that have value in sustainable landscapes. Course includes management of wild berry stands, field cultivation of wild berries and other native edible plants, and the propagation and cultivation of commercially useful fruits including strawberries, blueberries, currants, gooseberries, cloudberries, raspberries and more. Discussions will include plant biology, pollination biology, propagation, cultivation and harvest of cultivated and wild plants in Alaska. Prerequisites: none, basic high school biology or completion of Master Gardener Program is recommended. (1+0)

Prerequisite: High school biology, Master Gardener Program recommended

Goals and Objectives
The management and harvesting of wild berries and cultivation of domesticated berries are common throughout Alaska both for home use and as the foundation for cottage industries such as foods, beverages, dyes, and cosmetics, and medicinal products. This class will provide natural resource managers with basic knowledge in the biology of fruit production, methods of improving fruit yields, challenges to fruit production (diseases, insects, etc), management of wild and domesticated berries, and an exploration of the berry industry. The lectures and assigned activities explore the fundamental basis for berry production and the methods by which we use wild and domesticated berries in homes and businesses.

Student Learning Outcomes
It is expected that you will become familiar with the theory and practice of wild berry management and fruit production sufficient for home use and development of or employment in a cottage industry. You will develop a working knowledge of wild and domesticated berry terminology and techniques to allow you to pursue specific interests.
as well as practice problem-solving skills for researching and making management decisions in resources management.

**Instructional Methods:**
The basic course will use Blackboard as the main interface for exams, presentation of videos, YouTube and more. Methods will include:
1) Online or classroom powerpoint lecture
2) Audio/video demonstrations using Powerpoint, Camtasia, Youtube
3) Fruit science terms- a combination of puzzles, quizzes, matching, short answer
4) Situational essays: essays answering questions about how berries are harvested, processed, used, that require independent research of literature, analysis and problem solving in natural resources management
5) Videos or production practices for seeds
6) In-class or distance discussions about the biology and/or business of berries

**Technology Requirements**
One section of this course will be online and will use several multimedia technologies accessible through Blackboard. Lectures will be recorded using Powerpoint/Camtasia/Youtube and will require audio and video capabilities. There are no requirements to purchase additional software. Students will be expected to have the most current versions of several applications that will be used in this course, including QuickTime, Flash (Mac|Windows), iTunes and Java. Before the first online class meeting, please visit the OIT website to make sure all of your systems are up to date.

**Evaluation:**

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<tr>
<th>Evaluation Category</th>
<th>Points</th>
<th>Grade</th>
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<tbody>
<tr>
<td>Weekly vocabulary quiz/game, etc. (6)</td>
<td>120</td>
<td>A= 90-100%</td>
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<tr>
<td>Situational essays (5)</td>
<td>125 (max)</td>
<td>B= 80-89%</td>
</tr>
<tr>
<td>Video/reading commentaries (5)</td>
<td>125 (max)</td>
<td>C= 70-79%</td>
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<td></td>
<td>D= 60-69%</td>
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<tr>
<td>Final exam</td>
<td>100</td>
<td>F= Below 60%</td>
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</table>

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Weekly vocabulary quizzes/games: (10-20 points each, 120 points max) A weekly quiz will be given using a variety of tools such as crossword puzzles, short answer, fill in the blank, etc. that give you opportunities to learn and review the unique vocabulary of fruit science. There will be 5 quizzes in a semester graded using the Blackboard system.

Essays/activity: (up to 25 points each, 125 points max) One or more essay questions or short answer questions will be given every week that require a search of the literature and online resources and exploration of the wild berry/fruit industry. Essays will be up to 5 pages with the minimum length specified for each essay at the time of assignment. All essays will be double spaced, 12 point font, no title page, with 1-inch margins and must include referenced sources of information. Grading will be based on content (50%), accuracy (10%) reasoning and thinking skills (30%) and use of appropriate references
(10%). On all essays/exams, ½ point will be deducted for each instance of incorrect spelling and/or grammar.

Exams: A final exam will be given. Using a mixture of short answer, fill in the blank, and essay, the exams will cover a review of materials for the course. It will also include a class-long activity on the production or management of a specific fruit crop.

**Course Policies**

**Plagiarism and Academic Honesty**
Plagiarism is using what another person has developed as your own words or thoughts. Plagiarism is never acceptable. UAF requires students to conduct themselves honestly and responsibly and to respect the rights of others. Cheating, plagiarism or other forms of academic dishonesty may result in disciplinary action and sanctions. The UAF Student Code of Conduct is adhered to in this course.

**Disability Services**
The UAF 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. Your instructor will work with the Office of Disability Services (208 WHIT, 907-474-5655) 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 and Community Development (CRCD) campuses and UAF Center for Distance Education (CDE). Disability Services, a part of UAF 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 the Office of Disability Services 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) 474-5655, fydso@uaf.edu.

**Make up quizzes and exams** will be given only in emergency situations. (Note from Dean, Physician, Employer).

**Incomplete grades:** Incompletes will be given only in the case of family or medical emergencies or circumstances beyond your control. You must have a C- or better average in the class, have attended all of the classes and labs, and shown good progress toward completing the course BEFORE the emergency in order to receive an incomplete grade.

**Audits:** Auditing the class is accepted but not recommended. You must complete all work, including the exams, readings and lab reports. They simply won’t be graded but will receive full feedback from the instructor. If exams, etc. are not completed, the instructor will initiate a withdrawl from the class.
**Spelling and Grammar:** On all written papers including essays and exams, ½ point will be deducted for each instance of incorrect spelling and/or grammar. It is recommended that you proofread all papers prior to submission or reviewed by the UAF writing center.

**Tentative Calendar**

Session 1. Course introduction: The importance of wild and domesticated berries to humans and processed products resulting from fruit: medicines; condiments; agriculture; bird and wildlife food; cosmetics; aromatic compounds; beverages; ornamental decorations.

Session 2. Where fruits come from - flower initiation: the development of flowers in annuals, biennials and perennials and the process by which fruits are formed; environmental factors that influence fruit; Methods of maximizing yield. (quiz and essay)

Session: 3 Wild stand management, wild berry ecology, harvesting methods, laws

Session 4- 6 Fruit crops: Rose family: Raspberries, rose hips, saskatoons, strawberries, cloudberry, nagoonberries: cultivation, wild stand management, processing, uses

Session 7-8. Fruit crops: Honeysuckle family: Honeyberries; Currant Family: red, black, white currants, gooseberries: cultivation, wild stand management, processing, uses

Session 9-10: Heath Family: lingonberries, blueberries, bog cranberries: cultivation, wild stand management, processing, uses

Session 11: Other minor fruits: crowberry, bearberry, soapberry: cultivation, wild stand management, processing, uses

Session: 12: Handling and processing methods (Cooperative Extension Service recommended methods. Methods of home and commercial processing

Session 13: The world of superfoods, human nutrition and berries.