

Submit original with signatures + 1 copy + electronic copy to Faculty Senate (Box 7500).

4xx / 6xx

XX XX

TRIAL COURSE OR NEW COURSE PROPOSAL

SUBMITTED BY:

Department

Biology and Wildlife

College/School

CNSM

Sponsored by

Doretha Wall

Phone

8346

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

5. To be **STACKED?**

YES/NO

Yes

If yes, Dept.

BIOL

Course #

662

6. **FREQUENCY OF OFFERING:**

Spring

Fall. Spring. Summer (Every. or Even-numbered Years. or Odd-numbered Years) -- or As

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:

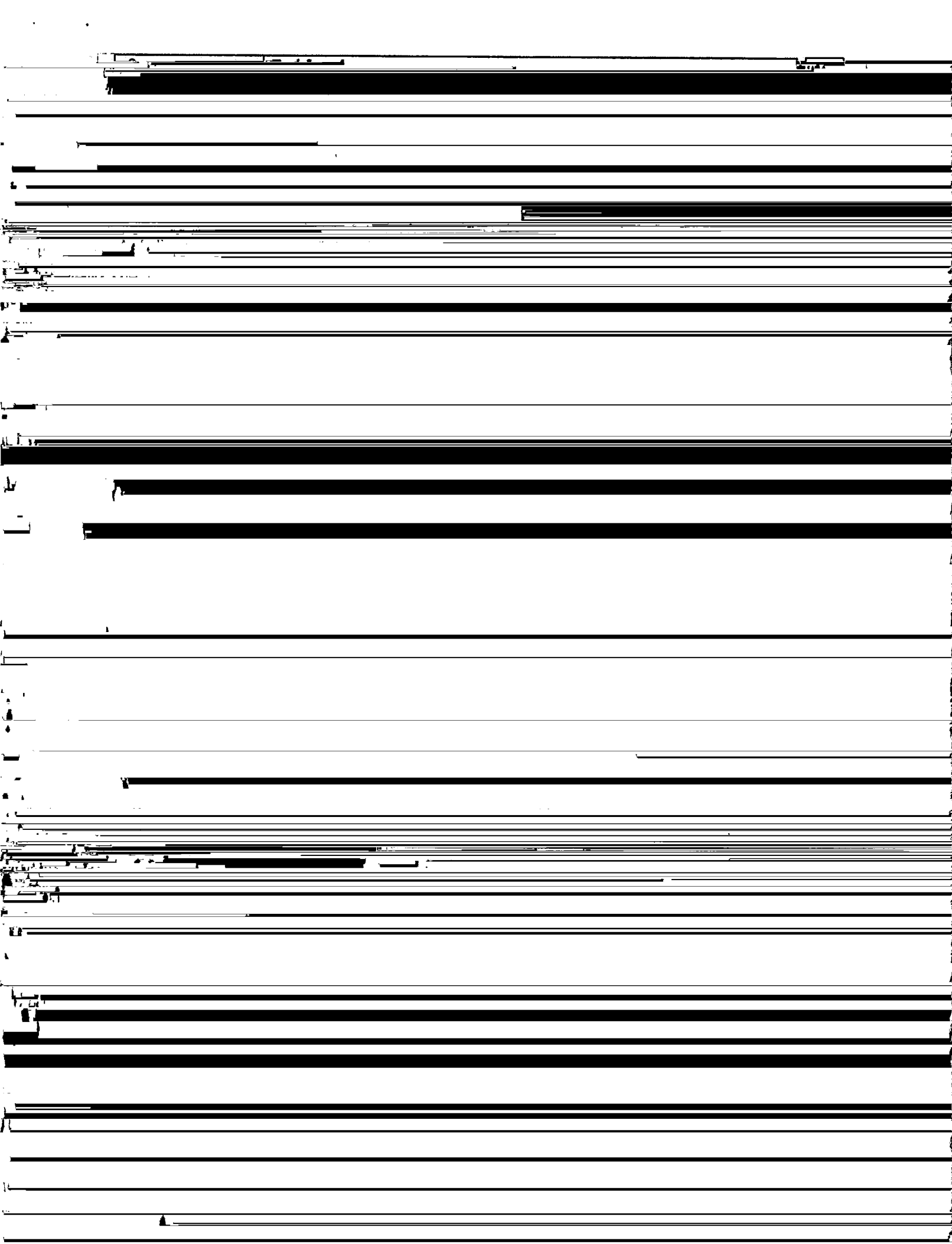
IF YES, check which core requirements it could be used to fulfill:

O = Oral Intensive, Format 6

W = Writing Intensive, Format 7

Natural Science, Format 8

12. **COURSE REPEATABILITY:**



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.

This course is the main field component of the Arctic Plants and Vegetation Ecology course sequence.

ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking)

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Date

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Date

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Signature, Chair, College/School Curriculum Council, etc.

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Date

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Signature, Dean, College/School of:

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**Syllabus for NEW COURSE,
BIOL 462 / 662, Arctic Vegetation Ecology: Field,
Summer 2014**

1. Course information

Title: Special Topic, Arctic Vegetation Ecology: Excursion

Number: BIOL 462 / 662

Credits: 2

Prerequisites: BIOL 115 & 116, Introduction to Plant Biology (BIOL 239) or Principles of Ecology (BIOL 271) or instructor approval

2. Instructor and contact information

Prof. D.A. (Skip) Walker, Alaska Geobotany Center, University of Alaska Fairbanks, Arctic Health Building, Room 254, X 2460, dawalker@alaska.edu. Office hours: Generally available, call before coming.

3. Course readings/Material:

Readings: Numerous papers will be read and are in the assignments listed in the course calendar and will be posted on line at <http://www.geobotany.uaf.edu>. These three references provide a good overview of the Dalton Highway transect for the Excursion:

1. Brown J, Kreig RA. 1983. Guidebook to permafrost and related features along the Elliot and Dalton highways, Fox to Prudhoe Bay, Alaska. Fairbanks, AK: Division of Geological and Geophysical Surveys.
2. Walker DA, Hamilton TD, Ping C-L, Daanen RP, Streever WW. 2009. Dalton Highway Field Trip Guide for the Ninth International Conference on Permafrost, Fairbanks, AK: Division of Geological and Geophysical

trip will have a strong emphasis on Arctic Vegetation and field sampling.

5. Course goals and student learning outcomes

The goals for the course are to: (1) Provide students with an in-depth field experience of Arctic vegetation and application of vegetation science to current Arctic issues. (2) Provide methods of field sampling of Arctic vegetation in a variety of Arctic plant communities. (3) Visit arctic research sites, including Finger Mountain, Atigun Pass, Toolik Lake, Imnavait Creek, Happy Valley, Sagwon, Franklin Bluffs and Prudhoe Bay.

6. Instructional method and grading criteria:

2-day preparation

the course. Graduate students will also write a 10-15 page research paper focused on some aspect of observations during the course, which will be due at end of the summer.

7. Course Schedule and assignments:

Day	Date	Topic	Assignment:
1	Jun 7	Morning: Arctic Vegetation overview lectures, Afternoon: Development of student research topics	
2	Jun 8	Morning: Arctic vegetation overview lectures. Afternoon: Preparation for field excursion.	
3	Jun 9	Drive to Coldfoot with	Brown J, Kreig RA. 1983. Guidebook to permafrost

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		Camp along Sagavanirktok River near Prudhoe Bay.	
14	15	16	Walker MD, 1990. Vegetation and floristics of

