

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:

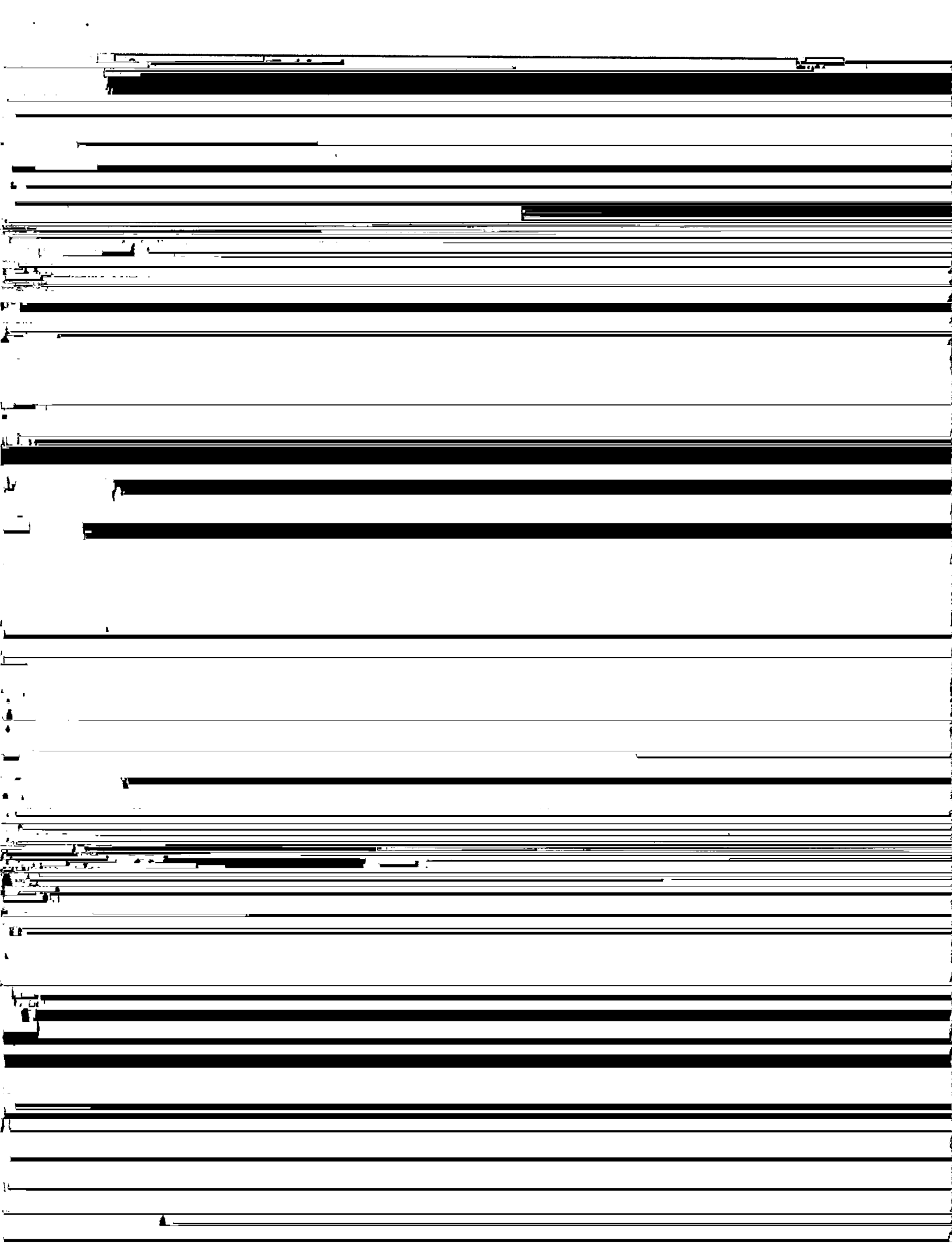
IF YES, check which core requirements it could be used to fulfill:

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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		<b>Camp along Sagavanirktok River near Prudhoe Bay.</b>	
14	14	14	Walker MD 1000 Vegetation and Geology of

