14 .	Course e	xists as BIOL F475 currently.	
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BIOUF475 Vegetation Description and Analysis

2 Credits Offered Fall Even-numbered Years

Methods of vegetation science including sampling, classification, gradient analysis, ordination, field description and mapping. Field trips to the plant communities of interior Alaska. Special fees apply. Prerequisites: BIOL F474 or other general ecology course; permission of instructor. (1+3)

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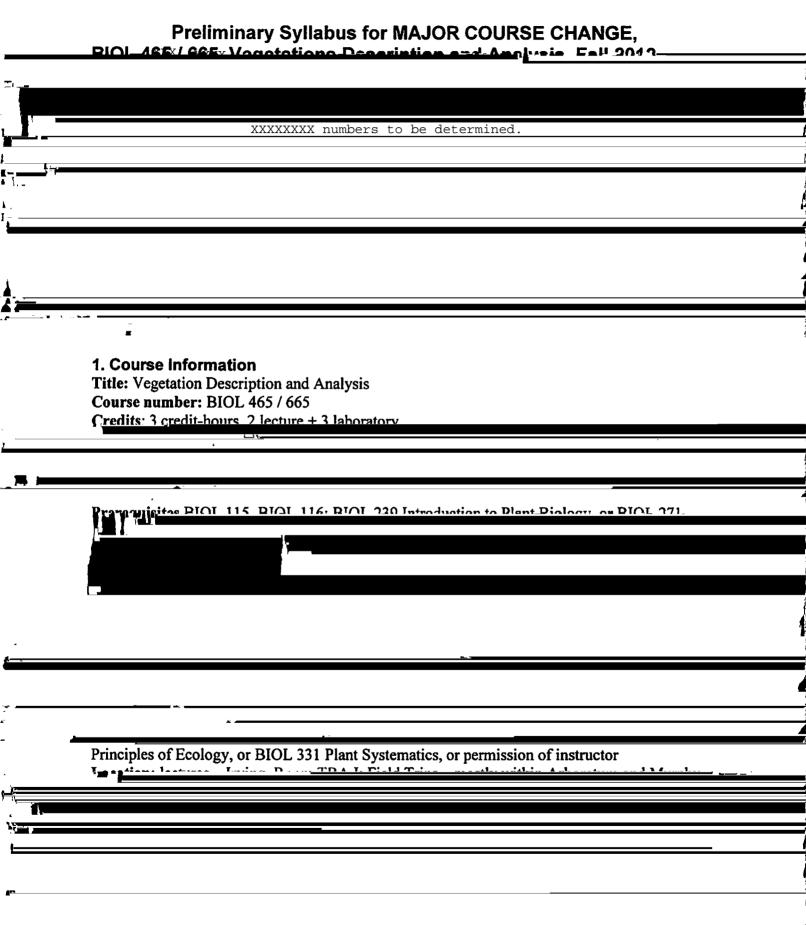
JUSTIFICATION FOR ACTION REQUESTED The purpose of the department and campus-wide curriculum committees is to scrutinize course change and new course applications to make sure that the quality of UAF education is not lowered as a result of the proposed change. Please 1. . . .

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

	Date	
Signature, Chair, Program/Department of:		
	Date	
Signature, Chair, College/School Curriculum Council for:		
	Date	
Signature, Dean, College/School of:		

NOTE: Course currently exists as BIOL F475. Numbering to be determined.



3 Credits	Offered l	fall Even-nun	nbered Years				
Methods of	vegetation s	science includ	ling background	d lectures,	field trips, ar	nd computer	
laboratories.	Computer	analysis inclu	udes database co	onstructior	n (Turboveg),	, table analysi	S
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BIOL 271, or BIOL 331 or permission of instructor. Stacked with BIOL F665 (2+3)

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This course will give students a broad overview of concepts and methods of description and analysis of plant community data. These methods of vegetation science include vegetation sampling, classification, and gradient analysis, and exploration of the relationship of species distributions to their arritement. Mest of the class will be devoted to obtaining comprehensive

MD&E = Mueller-Dombois, L. D. and Ellenberg, H., 1974: Aims and Methods of Vegetation Ecology. Boca Raton: CRC Press. McC&G = McCune, B. and Grace, J., 2002: Analysis of ecological communities. Gleneden Beach Oregon: MiM Software Design 300 pp

Topics/Activities Date_ Reading assignments Assignments DIIF Ľ

	Mon. 6 Oct.	Field lab 5 Forest sampling methods	Bring field gear as for Lab 1 (but warmer!)	
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10 W	lon.	relevé data - TURBOVEG Student presentation #1		
10 W	lon.	Student presentation #1		
10 W		Sincem presemation #1		
w		Lab 10 - Computer lab:		
) Nov.	Ordinations with environmental		
		data, DCA, CCA		
		Ordination: canonical	Paper #9	Paper #9 summary due
112		correspondence analysis,		
[nonmetric multi-dimensional	KC Chapter 6, pp. 227-244	
		scaling,	McC&G Chapters 16, 21	
		Student presentation #2	Niceaed Chapters 10, 21	
M		Numerical classification		I al Dan and #4 data
				Lab Report #4 due
		Student presentation #3		Ordination
		Lab 11 - Computer lab: NMDS,		
		cluster analysis, TWINSPAN		
		Table sorting methods and	Paper #10	Paper #10 summary due
19)	software TURBOVEG, JUICE	KC Chapter 8	
, INC	<u>ﻣΨ, </u>	Student presentation #4	Mac & Chanters 10-12 25	1 1
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locations. Students are expected to participate in class discussions. Both attendance and participation will contribute to the final grade.

Reading assignments: There will be 10 journal papers to read for the course. Each paper will describe research using one or more of the techniques learned in class. Short answers to a few questions about the papers will be due each Wednesday. Additional reading that supplements the material covered in class will be assigned. This reading is recommended to broaden students'

understanding of the topics and fill any gaps in students' background, and is required if a student is having difficulty understanding a topic. Graduate students will lead class discussions of the paper and will be expected to participate more actively in the discussion.

Lab write-ups:

There will be 8 lab write-ups. These are designed to give the students an opportunity to apply

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Please speak with me if you have any questions about how to properly use other people's work.

9. Evaluation Grades:		
Grades will be based on the following criteria:	Undergraduate	Graduate
Lab report assignments (5 @ 20 pt each)	100	100
Journal article analysis (10)	100	200
Vegetation description & analysis notebook	150	150
Oral presentation to class	100	200
Final paper	100	200
Class participation	_50	50
TOTAL	600	900

Note: These criteria may be modified somewhat as the course progresses. Final grades will be as follows: greater than or equal to 90% = A; 80-89% = B; 70-79% = C; 60-69% = D; < 60% = F.

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points will be deducted for every day an assignment is late.

10. Support Services

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