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	BIOU F475 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)	
	Frerequisites: BIOL F4/4 or other general ecology course, permission of matructor. (1+3)	
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	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	
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	Date	
Signature, Chair, Program/Department of:		
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Signature, Chair, College/School Curriculum Council for:		
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Signature, Dean, College/School of:	1	
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NOTE: Course currently exists as BIOL F475. Numbering to be determined.

## Preliminary Syllabus for MAJOR COURSE CHANGE,

PIOL 185/ 665 Vanatationa Department and Angliesia Fall 2013 XXXXXXXX numbers to be determined. 1. Course Information Title: Vegetation Description and Analysis Course number: BIOL 465 / 665 Credits: 3 credit-hours 2 lecture + 3 laboratory rampulicites PIOI 115 DIGI 116: BIOI 220 Introduction to Dient Dialogy on DIGI 271. Principles of Ecology, or BIOL 331 Plant Systematics, or permission of instructor

Offered Fall Even-numbered Years 3 Credits Methods of vegetation science including background lectures, field trips, and computer laboratories. Computer analysis includes database construction (Turboveg), table analysis MAN DE LE COMPONIE DE LE PROPERTIE DE LA PORTIE DE L th Geb BIOL 271, or BIOL 331 or permission of instructor. Stacked with BIOL F665 (2+3) 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 anvisonment. Most of the close 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 DIF

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	Mon. 6 Oct.	Field lab 5 Forest sampling methods	Bring field gear as for Lab 1 (but warmer!)	
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	relevé data - TURBOVEG Student presentation #1		
Mon. 10 Nov.	Lab 10 - Computer lab: Ordinations with environmental data, DCA, CCA		
	Ordination: canonical correspondence analysis, nonmetric multi-dimensional scaling,  Student presentation #2	Paper #9  KC Chapter 6, pp. 227-244  McC&G Chapters 16, 21	Paper #9 summary due
Mon. 17 Nov.	Numerical classification Student presentation #3		Lab Report #4 due Ordination
	Lab 11 - Computer lab: NMDS, cluster analysis,TWINSPAN		
19	Table sorting methods and software TURBOVEG, JUICE Student presentation #4	Paper #10 KC Chapter 8 McC&G Chapters 10-12 25	Paper #10 summary due

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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'	
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7	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.	
<u></u>	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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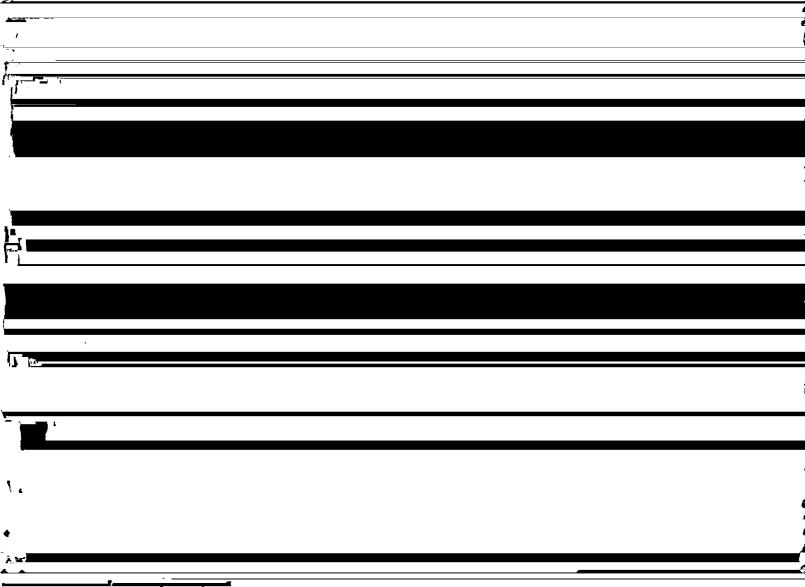
Please speak with me if you have any questions about how to properly use other people's work.

## 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.



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