Submit originals (including syllabus) and one copy and electronic copy to the **Faculty Senate Office**See <a href="http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/">http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/</a> for a complete description of the rules governing curriculum & course changes.

	CHANGE COURSE (MAJOR) and DROP COURSE PROPOSAL  Attach a syllabus, except if dropping a course.										
SI	BMITTED BY:										
30	Department Geosciences		S	College/School		CNSI	М				
	Prepared by Cary de W						Phone	x714			
	<b>Email Contact</b>	cwdew			edu		F	aculty Contact		de Wit	
		6502			F-, 10 (1)	Englis					
1.	COURSE IDEN		ON: A								
	Dept GI	EOG		Cou	urse #	111	X	No. of Credit	s 4		
1	COURSE TITLE	I	Earth	and	Enviro	nment	t: Elem	nents of Physic	al Geogra	phy	
2.	ACTION DESIR	RED: √ CI	heck tl	he cha	nges to	be mad	e to the	existing course.			
	Change Course	X		hange, nging.	indicate below what is Drop Course						
	NUMBER			7	TITLE		V CONTRACTOR	DESCRIPT	ION		
	PREREQUISITE	S*	X		FREQUENCY OF OFFERING						
					a student is allowed to enroll in the course.						
	CREDITS (inclu	aing crea	it aisti	ributio	COURSE CLASSIFICATION						
	ADD A STACKI	ED LEVEL			Dep	t.		Course #			
	(400/600) Include syllabi.										
	How will the other? How wi				e appro	priate					
	Stacked course ar	nlications	are rev	iewed l		evel?:	luate) Cu	rricular Review Con	nmittee and	by the Graduate Academic	
	and Advising Corqualities of what sufficiently differed 3) are graduate st	nmittee. Crare suppose ent (i.e. is thudents bein	eating to be nere un nere un ng unde	two diff e two d dergrac ertaxed?	ferent syll ifferent co luate and ! In this o	abi—un ourses. T graduat context,	dergradu he comn e level co the comn	ate and graduate ve nittees will determin ontent being offered nittees are looking o	rsions—will ne: 1) whethe ); 2) are unde out for the int	help emphasize the different or the two versions are ergraduates being overtaxed?; erests of the students taking	
	ADD NEW C		er com		has qualms, they both do. More info online – see URL at top of this page.  Dept. Requires approval of both departments and deans involved. Add						
	LISTING	G			& No.		lines at	end of form for add	itional signat	tures.	
	STOP EXIST				Dept. & No.		Requi		ther departm copy of emai	ent(s) and mutual agreement. I or memo.	
	OTHER (specify	1)									
3.	R. COURSE FORMAT  NOTE: Course hours may not be compressed must be approved by the college or school's of Furthermore, any core course compressed to COURSE FORMAT:  (check all that apply)					ılum cou	ncil and	the appropriate Fac	ulty Senate o	curriculum committee.	
	OTHER FORMAT (specify all that apply)  Mode of delivery (specify lecture, field trips, labs, etc.)									RECEIVED	

OCT - 1 2015

Dean's Office
College of Natural Science & Mathematics

Governance 10/12/15 WR

	COURSE CLASSIFICATIONS: (underg			pproved crit	eria foun	d in Ch	apter 12	of the cu	ırriculum	
	manual. If justification is needed, atta	stach separate sheet.)  S = Social Sciences								
	Will this course be used to fulfil for the baccalaureate core?	Ifill a requirement YES X NO								
	IF YES*, check which core requirem	ents it could be	e used to fulf	II:				Tale:		
	O = Oral Intensive,	W = W	riting Intensive	*Format 7		X =	Baccalaur	eate Core	X	
	*Format 6 also submitted			submitted				United States	H. C.	
	Is course content related to norther the printed Catalog, and flagged in B YES NO		cumpolar stu	dies? It yes,	a "snow	tlake" s	symbol w	ill be ad	ded in	
5.	COURSE REPEATABILITY:									
	Is this course repeatable for credit?		YES	NO		X				
	Justification: Indicate why the course example, the course follows a different example.									
	How many times may the course be	repeated for c	redit?					TI	MES	
	If the course can be repeated with verthat may be earned for this course?	ariable credit, v	what is the m	aximum num	nber of cr	redit ho	urs		CREDITS	
sta	COMPLETE CATALOG DESCRIPTION Cking, clearly showing the changes you chiplete catalog format including dept. Example of a complete description: PS F450 Comparative Aboriginal	ou want made. , number, title,	( <u>Underline n</u> , credits and	ew wording cross-listed a	strike the	rough o				
	3 Credits									
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	nation-state systems. Seven Aborig									
	factors promoting or limiting self-	determination.								
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	GEOG F111X Earth and 4 Credits	Environmen	it: Element	s of Physic	al Geog	grapny	(n)			
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	4 Credits	Zii vii oiiiiiei	iti Bicincii	o or r my ore	our Georg	5. up.,				
	Introduction to Earth's dynar	mic environr	nents, syste	ms, and cy	vcles. M	lajor				
	topics include: 1) landscapes-	continents,	oceans, mo	ıntains an	d landf	orms.				
	2) weather and climate(-weath						1			
	3) ecosystems and biomes four									
	dynamically linked, how they									
	conditioned by the environme interpretation, field trips, and			-						
	on Earth. Special fees apply. I									
	higher; placement in DEVM 1								88	
	(3+3)									

8. GRADING SYSTEM: Specify only one.							
LETTER: X PASS/FAIL:							
9. ESTIMATED IMPACT							
WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE	E, FACULTY, ETC.						
No impact.							
10. LIBRARY COLLECTIONS							
Have you contacted the library collection development officer (kljensen@alasladequacy of library/media collections, equipment, and services available for the	ka.edu, 474-6695) with regard to the						
contact and resolution. If not, explain why not.	ne proposed courses in so, give date of						
No X Yes N/A.							
AT WALLETS ON DECORAGE PROPERTY.							
11. 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)							
No impact.							
12. POSITIVE AND NEGATIVE IMPACTS							
Please specify <b>positive and negative</b> impacts on other courses, programs and proposed action.	I departments resulting from the						
No impact.							
13. JUSTIFICATION FOR ACTION REQUESTED							
The purpose of the department and campus-wide curriculum committees is to s	crutinize 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. If you a why; are you increasing the amount of material covered in the class? If you dro	ask for a change in # of credits, explain on a prerequisite, is it because the						
material is covered elsewhere? If course is changing to stacked (400/600), expl.	ain higher level of effort and performance						
required on part of students earning graduate credit. Use as much space as need and explain what has been done to ensure that the quality of the course is not constant.							
GEOG 111X does not require advanced math skills. The current prerequ	isite of "MATH 151X or higher is						
preventing students from registering who are well-prepared to take the co	ourse.						
APPROVALS: (Forms with missing signatures will be returned. Additional necessary.)	al signature blocks may be added as						
necessaly.)							
	Date 10 - 1 - 6025						
Signature, Chair, Program/Department of: Geography	7						
The Continue of the Continue o	Date /0-9-15						
Signature, Chair, College/School/Cur/iculum Council for: CNSM							
Signature, Dean, College/School of: CNSM	Date /0/12/13						
Signature, Dean, College/School of: CNSM							
Offerings above the level of approved programs must be approved in advance	by the Provost (e.g., non-graduate level						
program offering of a 600-level course):							
Signature of Proyect (if applicable)	Date						
Signature of Provost (if applicable)							

ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE.							
	Date						
Signature, Chair Faculty Senate Review Committee:Curriculum ReviewGAAC							
Core ReviewSADAC							

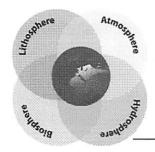
Note: If <u>removing</u> a cross-listing, you may attach copy of email or memo to indicate mutual agreement of this action by the affected department(s).

If degree programs are affected, a Format 5 program change form must also be submitted.

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). Instructor (and if applicable, Teaching Assistant) information:  $\square$  Name,  $\square$  office location,  $\square$  office hours,  $\square$  telephone,  $\square$  email address. 3. Course readings/materials:  $\square$  Course textbook title,  $\square$  author,  $\square$  edition/publisher. lacksquare Supplementary readings (indicate whether lacksquare required or lacksquare 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: lacksquare 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: lacksquare Specify course rules, including your policies on attendance, tardiness, class participation, make-up exams, and plagiarism/academic integrity. lacktriangle Specify how students will be evaluated, lacktriangle what factors will be included, lacktriangle their relative value, and \[ \text{how they will be tabulated into grades (on a curve, absolute)} \] scores, etc.)  $\square$  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": http://www.uaf.edu/files/uafqov/Info-to-Publicize-C Grading-Policy-UPDATED-May-2013.pdf 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.  $\square$  State that you will work with the Office of Disabilities Services (208 WHITAKER BLDG, 474-5655) to provide reasonable accommodation to students with disabilities.

Note: Optional Title IX syllabus statement may be used. See http://www.uaf.edu/oeo/eeo-statement/



# GEOG 111x – Earth and Environment: Elements of Physical Geography (4 credits)

# SYLLABUS Spring 2015

INSTRUCTOR Chris Maio

907-474-5651

cvmaio@alaska.edu

**OFFICE** Reichardt Building, Room 368

**OFFICE HOURS** Monday 3:00 –4:00

Thursday 10:00 - 11:00

And by appointment

LAB INSTRUCTOR Job Noordeloos

jnoordeloos@alaska.edu

ARHRB 182

Office hours by appointment

LECTURES Reichardt Building, Room 203

**MWF** 

Class Time: 1:00 - 2:00

LABORATORY Reichardt Building, Room 233

(F01) Tue 2:00-5:00

(F02) Wed 2:15-5:15

**IMPORTANT SCHEDULE NOTE:** There is 1 mandatory Wednesday field trip to the Permafrost Tunnel included as part of the lab component and scheduled for 2/11. This field trip will occur ONLY on Wednesday so please make arrangements with other instructors to avoid conflicts.

#### BOOK

Required: Geosystems, 7<sup>th</sup> Edition -- R. Christopherson: This is not the most recent edition and is available from a variety of sources. There will be two copies within the reserve section of the library and the instructor has a limited number of copies to loan to students.

#### **COURSE DESCRIPTION**

Elements of Physical Geography will explore the processes that create and shape Earth's physical environment. A global systems approach will be used to describe elements of, and interactions between, the atmosphere, hydrosphere, lithosphere, and biosphere. The topic of global climate change will serve as a capstone that integrates course concepts allowing for a comprehensive understanding of Earth surface processes. Lab section includes hands-on activities to reinforce lecture material and 3 field trips. Special lab fees apply.

#### **COURSE GOALS**

This course will provide students with a global perspective on Earth surface processes and the interdependent linkages between the lithosphere, hydrosphere, atmosphere, and biosphere. Students will gain practice in the challenges of thinking critically through classroom and laboratory exercises. Through a research report and presentation students will become better writers and communicators. This course is designed to develop an integrated knowledge base from which students will explore and critically assess global environmental change and make informed decisions as global citizens.

#### **TEACHING METHODS**

This course will combine traditional lectures with hands-on learning activities within the laboratory and field trips. Lecture topics will focus on the fundamental principles of physical geography while integrating student interests and current events. These topics will then be reinforced through laboratory assignments and field trips to develop a well-rounded understanding of the Earth's systems.

#### LEARNING OUTCOMES

- Students will gain knowledge of how to describe, understand and identify the different landscapes and processes that shape the surface of our planet.
- Students will learn the general principles of physical geography including the interdependence between the hydrosphere, atmosphere, biosphere, and lithosphere.
- Students will interact and critically discuss course concepts within a group during in-class discussions.
- Students will design and orally present a research topic.
- Students will improve the quality of their research and writing skills through the development of a research paper.

#### **COURSE POLICIES**

#### **Expectations**

Students are expected to come to class prepared and on time. This includes reading the assigned material, having completed all assignments that are due and being prepared to discuss the course material. There is also an expectation that students within the lab and classroom will act with professionalism and be respectful to other students, the instructor, and guests. A failure to meet this expectation will result in a lowering of the final course grade and dismissal from the class.

#### Attendance and Participation

In class, attendance and participation will be worth a total of 15% of the final grade. Attendance will be taken at the beginning of every class and will count 5%, whereas participation during in-class notecard assignments is worth an additional 15%. If there is an emergency or other important obligation which prevents a student from attending class they are expected to email the instructor prior to the absence. If students do not email prior to the absence, points will be deducted from the participation grade and other related course work. Students are responsible for ascertaining what materials and/or assignments were missed even if their absence from class was excused.

#### Media Devices

Cell phones are to be switched off or placed in silent mode. Calls, Texts, and web browsing is not allowed during class periods, unless the instructor has granted permission. Violation of this policy will lead to a loss of grades. Laptops may be used for in-class note taking but use of email, social media or viewing of websites not relevant to the current class is not allowed, and will lead to a loss of grades.

#### Blackboard

All course materials and important announcements will be posted on Blackboard. This includes the most current version of the syllabus, lectures, and exercises. Students are required to visit Blackboard regularly to stay up to date with course materials and announcements.

#### STUDENT CONDUCT

UAF students are subject to the Student Code of Conduct. UAF will maintain an academic environment in which freedom to teach, conduct research, and administer the university is protected. Students will benefit from this environment by accepting responsibility for their role in the academic community. The principles of the student code are designed to encourage communication, foster academic integrity and defend freedoms of inquiry, discussion and expression across the university community. For a complete description of the University's Code of Conduct please go to <a href="http://www.uaf.edu/catalog/catalog\_14-15/pdf/04\_Academics.pdf">http://www.uaf.edu/catalog/catalog\_14-15/pdf/04\_Academics.pdf</a> and see Academics and Regulations.

ACADEMIC HONESTY WILL BE STRICTLY ENFORCED WITHIN THIS COURSE. CHEATING AND PLAGIARISM WILL NOT BE TOLERATED. ANY STUDENT CAUGHT PLAGIARIZING OR CHEATING WILL RECEIVE AN AUTOMATIC ZERO ON THE ASSIGNMENT IN QUESTION AND MAY BE REPORTED TO THE UNIVERSITY AUTHORITIES TO FACE FAILURE IN THE COURSE OR EXPULSION.

#### STUDENT SUPPORT SERVICES

#### Students with Disabilities

UAF is committed to equal opportunity for students with disabilities. Students with disabilities are encouraged to contact the coordinator of Disability Services (Mary Matthews) at the Center for Health & Counseling (907-474-7043 or uaf-disabilityservices@alaska.edu), to enlist the appropriate support. I will collaborate to provide accommodations and support or services to assist students in meeting the goals of the course.

#### Veteran Support

It is an honor to have veterans attending UAF and every accommodation will be made to support their success in this course. Please let me know if there is anything that can be done to facilitate your transition or continuation of an academic career and contact Walter Crary below.

Walter Crary is the Veterans Service Officer at the Veterans Resource Center, 111 Eielson Building. 907-474-2475.

Email: wecrary@alaska.edu

Fairbanks Vet Center 907-456-4238. VA Community Based Outpatient Clinic at Ft. Wainwright is 907-361-6370.

### STUDENT EVALUATION

Assignment	Points	Total Percent Course
EXAMS		20%
Midterm	100	
Final Exam	100	
LAB & FIELD TRIP COMPONEN	T	30%
Lab Assignments (11)	220	
Field Trips (3)	80	
RESEARCH PAPER		15%
Topic Summary	10	
Outline and Source page	30	
Draft 1	30	
Draft 1 Peer Review	20	
Final Draft	60	
PRESENTATION		10%
Draft 1	25	
Final Draft	25	
In-Class Presentation	50	
ONLINE EXERCISES		10%
Exercise 1	20	
Exercise 2	20	
Exercise 3	20	
Exercise 4	20	
Exercise 5	20	
ATTENDANCE & PARTICIPATIO	ON .	15%
Attendance	50	
Participation (Notecard Discu		
EXTRA CREDIT – CURRENT EV	FNT	4%

## **Grading Scale**

Grade	%	Grade	%
A+	97-100	C+	77-79
Α	93-96	С	74-76
A-	90-92	C-	70-73
B+	87-89	D+	67-69
В	83-86	D	63-66
B-	80-82	D-	60-62
		F	<60

#### ADDITIONAL ASSIGNMENT INFORMATION

- 1) **Exams:** The 2 exams will be non-cumulative and include multiple choice, matching, T/F, and short answer questions. A review session will be held prior to each exam.
- 2) Research Paper: The research paper will be a total of 6-7 pages long including figures and bibliography. The paper should be in 12-point Times New Roman double spaced font. Detailed instructions will be provided in class. Students will choose a research topic based on course topics and interests. Research topics will be provided upon request
- 3) Presentation: This assignment will consist of a 10-15 slide PowerPoint presentation. The topic will be based on the Research Paper. The presentations will be given during class at the end of the semester.
- 4) Exercises: The 5 online exercises will be posted on Blackboard and consist of a series of questions drawn from lecture and reading materials. Some exam questions will be drawn directly from exercises. Students will have the option of dropping the lowest grade exercise.
- 5) Extra-Credit Current Event: To receive points a student must clip/print a newspaper/magazine article of a current event that relates to class. Mount the article on a larger piece of paper and next to it paste a one paragraph summary of the event. The student will then briefly (2-3 minutes) present the current event during class. Printed digital formats will also be accepted. Each submission will be worth 20 points with a limit of two per student.

#### **EVALUATION SCHEDULE (NOT INCLUDING LAB ASSIGNMENTS)**

Due Date	Assignment	<b>Course Points</b>
1/16-5/4	ATTENDANCE	50
1/16-5/4	PARTICIPATION (Notecard Assignments)	100
2/2	Exercise 1	20
2/16	Exercise 2	20
2/23	Research Paper: Topic Summary	10
3/4	Research Paper: Outline and Bibliography	40
3/11	Exercise 3	20
3/13	MIDTERM EXAM	100
3/23	Research Paper: Draft 1	30
3/27	Research Paper: Peer Review	20
4/6	Research Paper: FINAL DRAFT	60
4/10	Exercise 4	20
4/13	Presentation: Draft 1	25
4/24	Presentation: Final Draft	25
4/27	Exercise 5	20
4/29	Presentation: IN-CLASS PRESENT	50
5/5 – 5/8	FINAL EXAM	100
	TOTAL POINTS	700

## TENTATIVE COURSE SCHEDULE

Week	Date	Lectures	Reading Due	Assignments Due
1	16 Jan	Lecture 1: Course Introduction	Syllabus	
	F			
2	19 Jan	NO CLASS	Syllabus	
	M	Alaska Civil Rights Day		
	21 Jan	Lecture 2: Introduction Continued/The	Chapter 1	Read Syllabus
	W	Scientific Method and Universal Laws	pages 1-33	Notecard
	23 Jan	Lecture 3: Essentials of Geography	Chapter 1 pages 1-33	
3	F 26 Jan	Lecture 4: Mapping the Earth	Chapter 2	
3	M M	Lecture 4. Mapping the Earth	Pages 41-59	
	28 Jan	Lecture 5: Formation of the Solar	Chapter 2	·
	W	System	Pages 41-59	
	30 Jan	Lecture 6: The Sun and the Solar	Chapter 2	
	F	Spectrum	Pages 41-59	
4	02 Feb	Lecture 7: Earth's Rotation and the	Chapter 3	Exercise 1
	М	Reason for the Seasons	Pages 61-85	
	04 Feb	Lecture 8: Earth's Modern Atmosphere	Chapter 3	
	W		Pages 61-85	
	06 Feb	Lecture 9:Pereglacial landscapes	Chapter 17	
	F		Pages 548-554	
5	09 Feb	Lecture 10:TBA	Chapter 17	İ
	M		Pages 548-554	
	11 Feb	FIELD TRIP 1: PERMAFROST TUNNEL	Chapter 7	
	W 12 F.1	<u> </u>	Pages 175-203	
	13 Feb F	Lecture 11: Weather	Chapter 7 Pages 175-203	
6	16 Feb M	Lecture 12: H2O: The Amazing Water	Chapter 8	Exercise 2
U	10 red M	Molecule	Pages 206-240	Exercise 2
	18 Feb	Lecture 13: The Water Cycle	Chapter 9	
	W		Pages 245-273	
	20 Feb F	Lecture 14: The Great Ocean Conveyor	Chapter 9	
			Pages 245-273	<u> </u>
7	23 Feb	Lecture 15: The Lithosphere Cycle I	Chapter 11	Research Paper: Topic
	M	I de la River de l	Pages 321-356	Summary
	25 Feb W	Lecture 16: Plate Tectonics: Divergent Convergent, and Transform Margins	Chapter 11 Pages 321-356	
	27 Feb	Lecture 17: Earthquakes and	Chapter 12	
	F	Volcanism	Pages 359-399	
8	02 Mar	Lecture 18: Tectonic Hazards along the	Chapter 12	
	M	Ring of Fire	Pages 359-399	
	04 Mar	Lecture 19: Biosphere: Biogeochemical	Chapter 19	Research Paper: Outline and
	W	Cycles	Pages 605-645	Bibliography
	06 Mar	Lecture 20: Biosphere: Ecosystems of	Chapter 19	
	F	the North	Pages 605-645	

Week	Date	Lectures	Reading	Assignments Due
	11 Mar W	Study Session, EXAM 2 REVIEW		Exercise 3
	13 Mar F	MIDTERM EXAM		
10	16 - 20 Mar	SPRING BREAK	Research Paper Sources	
11	23 Mar M	Lecture 21: Coastal Processes I Post-Exam Review	Chapter 16 Pages 501-529	Research Paper: Draft 1
	25 Mar W	Lecture 22: Coastal Processes II	Chapter 16 Pages 501-529	
	27 Mar F	Lecture 23: Geography and climate of Jurassic Alaska	TBA	Research Paper: Peer Review
12	30 Mar M	Lecture 24: Geologic time in Alaska	TBA	
	01 Apr W	Lecture 25: Glacial Modification of Terrain I	Chapter 17 Pages 531-571	
	03 Apr F	Lecture 26: Glacial Modification of Terrain II	Chapter 17 Pages 531-571	
13	06 Apr M	Lecture 27: Natural Recorders of Climate Change	Chapter 17 Pages 531-571	Research Paper: Final Draft
	08 Apr W	Lecture 28: Pleistocene Climate Change	Chapter 17 Pages 531-571	
	10 Apr F	Lecture 29: Holocene Climate Change	TBA	Exercise 4
14	13 Apr M	Lecture 30: Sun Spots: The Medieval Warm Period and Little Ice Age	TBA	Presentation: Draft 1
	15 Apr W	Lecture 31: Humans and the Environment	Chapter 21 Pages 677-687	
	17 Apr F	Lecture 32: Current Trends in Global Warming I	Chapter 21 Pages 677-687	
15	20 Apr M	Lecture 33: Environmental Policy, Management, and Action	TBA	
	22 Apr W	EXAM REVIEW	TBA	Presentation: Final Draft
	24 Apr F	NO CLASS - SPRINGFEST		
16	27 Apr M	Student Presentation I		Exercise 5
	29 Apr W	FIELD TRIP 3: FAIRBANKS LANDFORMS		
	01 May F	Student Presentation II		Research Presentation
17	04 May M	Student Presentations & PIZZA PARTY	LAST DAY CLASSES	Research Presentation
	May 05-08	FINAL EXAM	TBA	

#### LABORATORY AND FIELD TRIP COMPONENT

#### LAB INSTRUCTOR

The lab component of the course is directed by the lab instructor. This includes the lab activities, grading, and student attendance and participation. Any questions on lab assignments should be taken up directly with the lab instructor.

#### LATE ASSIGNMENTS

All lab and field trip assignments are due by the beginning of the next lab period, unless otherwise requested by your instructors. Any late submissions will incur a penalty of 10% per day.

#### **SCHEDULE**

Attending lab sessions and field trips is mandatory for this class. Students will be responsible for being prepared for outside labs and field trips. The GEOG 111 lectures combine students from two sections, but students must only attend the lab section on the day for which they are registered. If you cannot make your scheduled lab section on a particular week, but could attend the other section, you must clear this with the lab instructor prior to doing so.

#### TENTATIVE LAB SCHEDULE

Lab	Tuesdays	Wednesdays	Subject
	20-Jan	21-Jan	NO LAB
1	27-Jan	28-Jan	Introduction to Maps (Scale, Projections, etc.)
2	3-Feb	4-Feb	Eratosthanes [Outside Lab]
3	11-F	eb	Field Trip 1: Permafrost Tunnel
	WEDNESDA	AY ONLY	[Mandatory]
4	17-Feb	18-Feb	Weather [Outside Lab]
5	24-Feb	25-Feb	Principles of Water
6	3-Mar	4-Mar	Lithosphere Cycle - Rocks
7	10-Mar	11-Mar	Tectonic Hazards
	17-Mar	18-Mar	SPRING BREAK
8	24-Mar	25-Mar	Thematic Maps
9	31-Mar	1-Apr	Field Trip 2: Museum of the North
		_	[Mandatory]
10	7-Apr	8-Apr	Landscape Interpretation [Outside Lab]
11	14-Apr	15-Apr	Climate Change
12	21-Apr	22-Apr	Field Mapping [Outside Lab]
13	28-Apr	29-Apr	Field Trip 3: Fairbanks Landforms
			[Mandatory]