GEOGRAPHY 105 Spring 2018 3 cr. Dr. Neil C. Heywood

"THE DYNAMIC EARTH"
Lecture 1: TR 8-8:50; Sci B328 [Heywood]
Laboratory Sections: [Heywood]
#1 ... M 8-9:50; Sci B328

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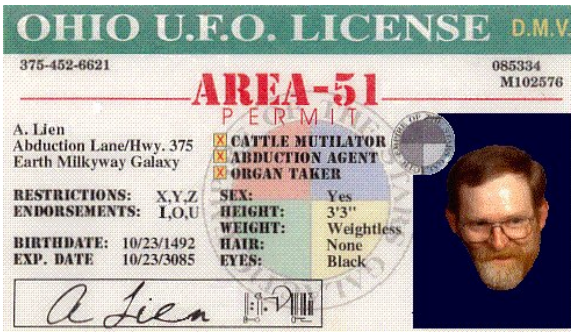

READ AND RETAIN THIS SYLLABUS!

"To know a thing is without value, unless one is given also the ability to apply it." — *Cyrus the Great* [of Persia], *546 B.C.*

"The essence of knowledge is its application."
— *Confucius* [Chou Dynasty, China], *ca. 525 B.C.*

"History is a consort to Geography, but Physics underlies all Science."
— *Immanual Kant, 1791 AD*

"...[know?] where to go..." — *Lennon and McCartney, 1969 AD*

TEXT: Skinner, B. J. and Murck, B. 2011. **The Blue Planet: An Introduction to Earth System Science**, 3rd Edition. New York: Wiley. ISBN= 978-0-471-23643-6. UWSP Textbook rental.

LAB MANUAL: Lemke, K., Ritter, M., Heywood, N. 2014. **The Dynamic Earth**, 1st Ed. New York: McGraw-Hill Higher Education. ISBN=9781259375255. ~$90 Bookstore.

GRADE COMPOSITION: Exam I – due S24FEB 25%
Exam II – due S07APR 25%
Exam III – due Wednesday 19DEC 25%
Labs: five 5% quizzes (**see calendar** next page) 25%

ATTENDANCE/GRADES: Except while enrolling waiting-list applicants during the first week, I usually do not record your presence at lecture or lab. Lecture and lab notes can verify your attendance. Check the current grade sheets on **D2L**-Administative to ensure the accuracy of your quiz/exam scores in my bookkeeping. The last page of this syllabus enables you to check your grade.

There has been considerable confusion regarding my availability. Another class immediately follows ours, so **AFTER LECTURE IN B328 IS *NEVER* PERSONAL CONSULTATION TIME. *Use my office hours*.** Also, success in life does not come by "extra credit"; there will be **NO** personal extra credit in 105.

I expect you to do your assigned readings; you can read them well within this University's expectation for "two hours of study time for each hour of class time". This especially includes ***PRE*-reading** the background discussion in the lab manual ***before*** coming to each lab. My role is not to recite your text to you, and so during each class *I will usually expand beyond the material that exists in your readings*; some lecture topics may not be present in your textbook at all. These still count! I do draw some exam questions from the text and lab materials, but **I focus exams on the topics that I cover in *lecture***. **Quizzes cover *lab* topics. Exams and quizzes are NOT cumulative.** If you must miss class or lab due to athletic events or other classes' field trips, please notify me TWO WEEKS in advance so that I can arrange to make the material available to you. You may NOT take the final test before its scheduled date.

ADDITIONAL: Please review **Rights and Responsibilities** within the UWSP campus community. I adhere to it; so should you. Finally, the audio-recorded lectures and lab introductions are available for re-listening at **D2L**, in the Content module "Audio Recordings".

LEARNING OUTCOMES: Upon completion of this course, GEOG 105 students should be able to:

a. explain basic underlying processes that create patterns of weather and climate.
b. explain basic physical processes that create and modify various landforms.
c. explain basic hydrological cycle and its impacts on weather and climate, plant and animal distributions, rivers, and landforms affecting Wisconsin.
d. explain basic location and characteristics of biomes, and interpret the distribution, origin, form, population, habitat, and human significance of natural organisms affecting Wisconsin.

GEOG 105-1 [Heywood] SPRING 2018 CALENDAR **NOTE: we use a modified laboratory manual.**

Do not purchase the full version intended for GEOG 101 sections.

M=Monday T=Tuesday W=Wednesday R=Thursday F=Friday S=Saturday

DATE	LECTURES	TEXT READINGS	LABS	Lab #	TOPIC
T23JAN	Introduction	-	M22JAN	1	Sunlight
	Air Structure/Material	pp. 322-326	***S27JAN***	**Survey**	***Return D2L surveys by Friday***
	Insolation	pp. 329-333			
	Temperature	pp. 327-329	M29JAN	3	Temperature/Pressure-Wind
	Pressure/Wind	pp. 349-365	***S03FEB***	***QUIZ 1***	**Submit *via* D2L by 5 PM**
	Hydrologic Cycle	pp. 223-246; 335-342	M05FEB	5	Humidity and Clouds
	Cyclones/Fronts	pp. 365-367			
	Storm, Fire, and Ice	pp. 367-372	M12FEB	7	Weather Maps/*video Cyclone*
	Köppen Climates	pp. 382-385	***S17FEB***	***QUIZ 2***	**Submit *via* D2L by 5 PM**
T20FEB	Effective Moisture	pp. 474-485	M19FEB	8	Köppen Climates
	Soil Properties	pp. 468-473	***S24FEB***	***EXAM I***	**Submit *via* D2L by 5 PM**
	Biotic Tolerance	pp. 417-430	M26FEB	10	Soil Moisture Properties
	Biotic Ranges	none			
	Biotic Relocations	none	M05MAR	11	NPP & Decay
	Forests	none	***S10MAR***	***QUIZ 3***	**Submit *via* D2L by 5 PM**
	Arid Ecosystems	none	M12MAR	-	*video The Invaders*
24-31MAR	*No Lectures*	*Spring Break*	*M26MAR*	*No Lab*	*Spring Break*
	Endangerment	pp. 442-448; 502-516	M02APR	16	Topographic/Geology Maps
	WI Ecol Landscapes	none	***S07APR***	***EXAM II***	**Submit *via* D2L by 5 PM**
T10APR	Rock Types/Materials	pp. 61-75; 185-220	M09APR	-	Rock Types
	Geologic Cycles	pp. 185-220			
	Crustal Motion	pp. 111-142; 176-184	M16APR	17	Igneous Landforms
	Vulcanism	pp. 161-176			
	Diastrophism	none	M23APR	18	Fluvial Processes
	Earthquakes	pp. 143-160	***S28APR***	***QUIZ4***	**Submit *via* D2L by 5 PM**
	Fluvial Processes	pp. 228-240	M30APR	19	Floodplains/Coastal
	Drainage Patterns	pp. 228-240			
	Glacial Processes	pp. 257-269	M02MAY	20	Glacial Landscapes
	Glacial Landforms	pp. 270-285	***S05MAY***	***QUIZ5***	**Submit *via* D2L by 5 PM**
W16MAY	**12:30 in Sci B328**	**EXAM III**	***I MUST attend!***	***EXAM III***	**Submit *via* D2L by 5 PM**

You may find some additional web links useful, beyond this course. I frequently receive requests for these later.

News **Conversions** **free Adobe Reader**
Scholarships **Wisconsin Job Center** **Federal Employment**

CLASS ID#: *Subtract* the *last* letter of your *first* name to your UWSP ID#. _____ ***KNOW THIS!***

e.g. 12345678 (UWSP ID#)
-_____12(Neil)
12345666 THIS WOULD BE MY *CLASS* ID#

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26


Please consider the environment - do you *really* need to print this? Can't we leave knowing our great-grandchildren might still see a forest?

TESTS: Some common test-taking mistakes to avoid (a mistake is an error that shouldn't have happened):

1) READ EVERY ANSWER OPTION before selecting one. Sometimes a choice later in the list is better than the one you've tentatively selected. Your task is to select the best answer.

2) PAY ATTENTION TO EMPHASIZED TERMS (*italic*, CAPITALIZED, and/or **boldface**). I emphasize to draw your attention to key details. If a key term throws you, check related questions for clues.

3) CORRECTLY SELECT YOUR CHOICE. Do not assume that the correct answer on D2L corresponds with the preview option letter; the D2L answer sequence often varies. DO NOT ASSUME THAT THERE IS A PATTERN to the sequence of answers-there isn't one! Whether or not the same letter already was correct for several consecutive past questions has absolutely no bearing on the answer to the next question.

4) Be sure to click D2L's "SUBMIT" (not just the "SAVE") button after selecting answers for all questions. "SAVE" preserves answers for you, but only "SUBMIT" sends those answers to me.

5) AVOID CHANGING ANSWERS. Your first guess is usually your best. Trust your "hunches", because your subconscious often holds answers that you can't recall directly. The guiding rule is change no answer unless you can clearly justify it to yourself.

6) TREAT EVERY MULTIPLE CHOICE QUESTION FIRST AS THOUGH IT IS A FILL-IN-THE-BLANK. Only after you have thought of an answer should you compare it with the choices offered.

7) IF THERE IS A "MULTIPLE-OPTION" ANSWER CHOICE (e.g., "A and B"), EVALUATE EACH ANSWER CHOICE AS THOUGH IT IS TRUE/FALSE.

CURVES: I curve each exam and lab quiz by my "70% Rule"; if over 70% of you miss a particular question, I return all but one point to those who missed it. Also, I weight your course score relative to that of the highest performer for this class. Check your scores periodically, and use the form below to determine "what I need to get…" **Enter % scores to calculate.**

QUIZ 1 =	**>=89.5 & <92.5 = A- >=79.5 & <82.5 = B-**	**>=92.5% = A >=82.5 & <87.5 = B**	**There is no A+ at UWSP >=87.5 & <89.5 = B+**
QUIZ 2 =	**>=69.5 & <72.5 = C- <57.5 = F**	**>=72.5 & <77.5 = C >=57.5 & <67.5 = D**	**>=77.5 & <79.5 = C+ >=67.5 & <69.5 = D+**
QUIZ 3 =	**EXAM I =**	**There is no D- at UWSP**	**There is no F+ at UWSP**
QUIZ 4 =	**EXAM II =**	**[A] QUIZ SUBTOTAL*.05 =**	**[D] HIGHEST SCORE IN CLASS =**
QUIZ 5 =	**FINAL =**	**[B] EXAM SUBTOTAL*.25 =**	**[E] YOUR % SCORE ([D]/[E])*100 =**
QUIZ SUBTOTAL =	**EXAM SUBTOTAL =**	**[C] YOUR TOTAL [A]+[B] =**	**[F] (E - ((E - target score)/remaining ratio))**

NEEDED SCORE = (E - ((E - target score)/remaining ratio))

Example: you desire 82.5% (minimum for a B) = (79.8 - ((79.8 - 82.5)/.50)) [note: retain signs]

a. remaining ratio is the decimal ratio proportion of the course grade still to be earned.
b. Use a higher grade's lower threshold as target to figure what you need to go up. (Target>E)
c. Use a lower grade's upper threshold as target to figure what keeps you above it. (Target<E)
d. Highest total score in class (to date) I shall provide to you with each e-mailed test report.

Note the base maps below; a similar North America map (without the labels) will appear on all **exams**. You will need to know the location of all fifty states and Canada's provinces. Furthermore, you should note, and take the time to learn before tests, all world and Wisconsin places that I mention in lecture or lab.


Arctic Ocean
AK
Yukon
NWT
Nunavut
Newf
BC
Alb
Sask
Man
Que
PEI
NB
NS
Ont
VT
ME
NH
MA
RI
CT
NJ
PA
NY
WA
MT
ND
MN
OR
ID
SD
WI
MI
WY
NE
IA
IL
IN
OH
NV
UT
CO
KS
MO
KY
WV
VA
MD
DE
CA
AZ
NM
OK
AR
TN
NC
SC
MS
AL
GA
TX
LA
FL
Pacific Ocean
Atlantic Ocean
Sonora
Baja California Norte
Baja California Sur
Chihuahua
Coahuila
Nuevo Leon
Tamaulipas


Lake Superior
ISLE ROYAL N.P.
Copper Harbor
Houghton
Ontonagon
Grand Marais
Marquette
Ishpeming
Munising
Sault Ste. Marie
Duluth
Superior
Hermantown
Cloquet
Two Harbors
Ashland
Ironwood
MICHIGAN
WISCONSIN
Iron Mountain
Escanaba
Kingsford
Rhinelander
Phillips
Rice Lake
Cheboygan
Petoskey
Gaylord
Traverse City
Brainerd
Little Falls
Sauk Rapids
St. Cloud
Elk River
Coon Rapids
Brooklyn Park
Minneapolis
St. Paul
Bloomington
Eagan
Burnsville
Woodbury
Hastings
Red Wing
Northfield
New Ulm
St. Peter
Faribault
Mankato
Owatonna
Waseca
Rochester
Winona
Stewartville
Albert Lea
Austin
Fairmont
Menomonie
Chippewa Falls
Eau Claire
Altoona
Wausau
Medford
Merrill
Antigo
Marshfield
Stevens Point
Wisconsin Rapids
Wausau
Shawano
Howard
Green Bay
Appleton
Oshkosh
Fond du Lac
Sheboygan
Manitowoc
Two Rivers
Menominee
Marinette
Sturgeon Bay
Lake Michigan
Lake Winnebago
Petenwell Lake
Sparta
Tomah
Onalaska
La Crosse
Portage
Baraboo
Beaver Dam
West Bend
Germantown
Milwaukee
Madison
Watertown
Brookfield
Waukesha
West Allis
Fort Atkinson
Cudahy
Racine
Janesville
Beloit
Kenosha
Pleasant Prairie
Waukegan
Lake Forest
Rockford
Machesney Park
Loves Park
Dubuque
Monroe
Platteville
Stoughton
Fitchburg
Sun Prairie
Prairie du Chien
Decorah
Mason City
Charles City
Algona
Waverly
Oelwein
Cedar Falls
Waterloo
Manchester
Independence
Iowa Falls
Fort Dodge
Webster City
Muskegon
Muskegon Heights
Norton Shores
Grand Haven
Grand Rapids
Wyoming
Kentwood
Holland
Lansing
Hastings
Battle Creek
Kalamazoo
South Haven
Benton Harbor
Portage
Jackson
Albion
Owosso
Alma
Big Rapids
Mount Pleasant
Ludington
Manistee
Cadillac
Houghton Lake
Mio