

"THE DYNAMIC EARTH"

Lecture 1: TR 8 – 8:50 [Heywood] Sci A121

Laboratory Sections: [Heywood]

#1 ... W 8 – 9:50 Sci B328

#2 ... T 11 – 12:50 Sci B338

Office: Science D332

Office Hours: TR 9-10 **on-line**

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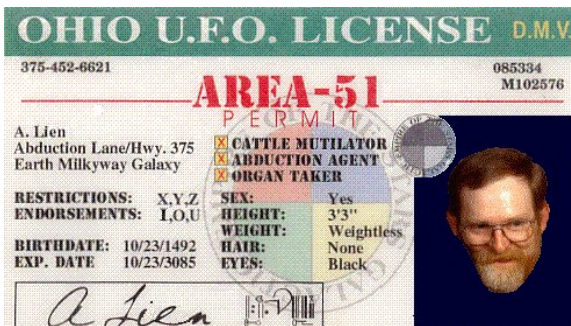
READ AND RETAIN THIS SYLLABUS!

"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."
— Immanuel Kant, 1791 AD

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



TEXT: on-line lecture graphics

LAB MANUAL: on-line

GRADE COMPOSITION:	Exam I – due S06OCT	25%
	Exam II – due S03NOV	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 **on-line-Administrative** 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 A121 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' engagements, 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 campus community. I adhere to these; so should you. Finally, the audio-embedded PowerPoint lectures and lab introductions are always available **on-line** (I strongly recommend downloading, not live-streaming) for re-listening.

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] FALL 2018 CALENDAR

NOTE: we use an on-line laboratory manual.

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

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

DATE	LECTURES	POWERPOINT	LABS	Lab #	TOPIC
T04SEP	Introduction	GEOG105 00	T04/W05SEP	01	Sunlight
	Air Structure/Material	GEOG105 01	F07SEP	Survey	Return on-line surveys
	Insolation	GEOG105 02			
	Temperature	GEOG105 03	T11/W12SEP	02	Temperature-Pressure
	Pressure/Wind	GEOG105 04	S15SEP	QUIZ 1	Submit answers on-line by 5 PM
	Hydrologic Cycle	GEOG105 05	T18/W19SEP	03	Moisture
	Cyclones/Fronts	GEOG105 06			
	Storm, Fire, and Ice	GEOG105_06a_Pernin	T25/W26SEP	04	Weather Maps/video Cyclone
	Köppen Climates	GEOG105 07	S29SEP	QUIZ 2	Submit answers on-line by 5 PM
T02OCT	Effective Moisture	GEOG105 08	T02/W03OCT	05	Köppen Climates
R04OCT	Soils (on-line; no F2F)	GEOG105 09	S06OCT	EXAM I	Submit answers on-line by 5 PM
	Biotic Tolerance	GEOG105 10	T09/W10OCT	06a	Soil Moisture Properties
	Biotic Ranges	GEOG105 11			
	Biotic Relocations	GEOG105 12	T16/W17OCT	06b	NPP & Decay
	Forests	none	S20OCT	QUIZ 3	Submit answers on-line by 5 PM
	Arid Ecosystems	none	T30/W31OCT	-	video The Invaders
	Endangerment	GEOG105 13			
	WI Ecol Landscapes	none	S03NOV	EXAM II	Submit answers on-line by 5 PM
T06NOV	Rock Types/Materials	GEOG105 14	T06/W07NOV	07	Topographic/Geology Maps
	Geologic Cycles	GEOG105 15			
	Crustal Motion	GEOG105 16	T13/W14NOV	08	Igneous Landforms
	Vulcanism	GEOG105 17			
	Diastrophism	GEOG105 18	T20/W21NOV	09a	River Landscapes
	<i>No Lecture</i>	<i>holiday</i>	R22NOV		<i>holiday</i>
	Earthquakes	none	S24NOV	QUIZ4	Submit answers on-line by 5 PM
	Fluvial Processes	GEOG105 19	T27/W28NOV	09b	River Landscapes
	Drainage Patterns	none			
	Glacial Processes	GEOG105 20	T04/W05DEC	10	Glacial Landscapes
	Glacial Landforms	none	S08DEC	QUIZ5	Submit answers on-line by 5 PM
W19DEC	On-line (my date)	EXAM III	On-line	EXAM III	Submit answers on-line by 5 PM

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

[News Scholarships](#)

[Conversions Wisconsin Job Center](#)

[free Adobe Reader Federal Employment](#)

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

e.g. 12345678 (UWSP ID#)

+ _____ 8 (Heywood)

12345686 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



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-line corresponds with the preview option letter; the on-line 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 on-line'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 =	$\geq 89.5 \ \& \ < 92.5 = A-$ $\geq 79.5 \ \& \ < 82.5 = B-$	$\geq 92.5\% = A$ $\geq 82.5 \ \& \ < 87.5 = B$	There is no A+ at UWSP $\geq 87.5 \ \& \ < 89.5 = B+$
QUIZ 2 =	$\geq 69.5 \ \& \ < 72.5 = C-$ $< 57.5 = F$	$\geq 72.5 \ \& \ < 77.5 = C$ $\geq 57.5 \ \& \ < 67.5 = D$	$\geq 77.5 \ \& \ < 79.5 = C+$ $\geq 67.5 \ \& \ < 69.5 = D+$
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.





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