

**“THE DYNAMIC EARTH”**

**Lecture 1:** TR 8-8:50; Sci B328 [Heywood]

**Laboratory Sections:** [Heywood]

#1 ... M 8-9:50; Sci B328

#2 ... W 8-9:50; Sci B328

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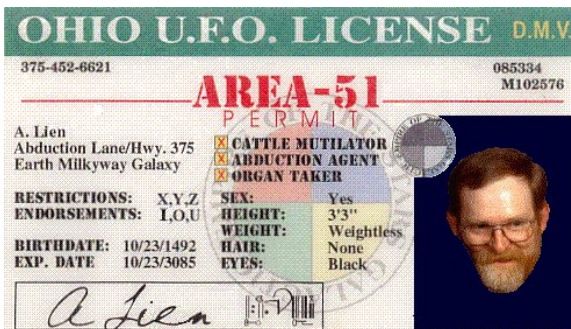
**READ AND RETAIN THIS SYLLABUS!**

*"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."*  
— Immanuel 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, 1<sup>st</sup> Ed. New York: McGraw-Hill Higher Education. ISBN=9781259375255. ~\$45 Bookstore.

<b>GRADE COMPOSITION:</b> Exam I – due S07OCT .....	25%
Exam II – due S04NOV .....	25%
Exam III – due <b>Tuesday</b> 19DEC .....	25%
Labs: five 5% quizzes ( <b>see calendar</b> 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](#)-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 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:
- explain basic underlying processes that create patterns of weather and climate.
  - explain basic physical processes that create and modify various landforms.
  - explain basic hydrological cycle and its impacts on weather and climate, plant and animal distributions, rivers, and landforms affecting Wisconsin.
  - 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] AUTUMN 2017 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

DATE	LECTURES	TEXT READINGS	LAB WEEK	Lab #	TOPIC
T05SEP	<a href="#">Introduction</a>	<a href="#">Check out GEO on-line</a>	S09SEP	-	<a href="#">Return D2L surveys by Friday</a>
	Air Structure/Material	pp. 322-326	W06SEP	-	<b>No Lab</b>
	Insolation	pp. 329-333	M11SEP	1/3	Sunlight/Temperature
	Temperature	pp. 327-329	S16SEP	<b>QUIZ 1</b>	<a href="#">Submit via D2L by 5 PM</a>
	Pressure/Wind	pp. 349-365	M18SEP	4/5	Wind, Humidity, and Clouds
	Hydrologic Cycle	pp. 223-246; 335-342	M25SEP	7	<a href="#">Weather Maps/video Cyclone</a>
	Cyclones/Fronts	pp. 365-367	S30SEP	<b>QUIZ 2</b>	<a href="#">Submit via D2L by 5 PM</a>
	Storm, Fire, and Ice	pp. 367-372	M02OCT	8	Köppen Climates
	Köppen Climates	pp. 382-385	S07OCT	<b>EXAM I</b>	<a href="#">Submit via D2L by 5 PM</a>
T04OCT	Effective Moisture	pp. 474-485	M09OCT	10	Soil Moisture Properties
	Soil Properties	pp. 468-473	M18OCT	11	NPP & Decay
	Biotic Tolerance	pp. 417-430	S21OCT	<b>QUIZ 3</b>	<a href="#">Submit via D2L by 5 PM</a>
	Biotic Ranges	none	M23OCT	-	<a href="#">video The Invaders</a>
	Biotic Relocations	none	M30OCT	16	Topographic/Geology Maps
	Forests	none	S04NOV	<b>EXAM II</b>	<a href="#">Submit via D2L by 5 PM</a>
	Arid Ecosystems	none	M06NOV	-	Rock Types
	Environment Change	pp. 392-407	M13NOV	17	Igneous Landforms
	Endangerment	pp. 442-448; 502-516	M20NOV	18	Fluvial Processes
	WI Eco Landscapes	<a href="#">none</a>	S25NOV	<b>QUIZ 4</b>	<a href="#">Submit via D2L by 5 PM</a>
T08NOV	Rock Types/Materials	pp. 61-75; 185-220	M27NOV	19	Floodplains/Coastal
	Geologic Cycles	pp. 185-220	M04DEC	20	Glacial Landscapes
	Crustal Motion	pp. 111-142; 176-184	S09DEC	<b>QUIZ 5</b>	<a href="#">Submit via D2L by 5 PM</a>
	Vulcanism	pp. 161-176			
	Diastrophism	none			
R23NOV	<b>No Lecture</b>				
	Earthquakes	pp. 143-160			
	Fluvial Processes	pp. 228-240			
	Glacial Processes	pp. 257-269			
	Glacial Landforms	<a href="#">pp. 270-285</a>			
<b>T19DEC 14:45 in Sci B328 EXAM III</b>			<b>I MUST attend! EXAM III <a href="#">Submit via D2L by 5 PM</a></b>		

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 last letter of your first name to your UWSP ID#. \_\_\_\_\_ **KNOW THIS!**

e.g. 12345678 (UWSP ID#)

+ \_\_\_\_\_ 12(Neil)

**12345690 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 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 =	$\geq 89.5$ & $< 92.5 = A-$ $\geq 79.5$ & $< 82.5 = B-$	$\geq 92.5\% = A$ $\geq 82.5$ & $< 87.5 = B$	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.



