

**"HUMAN IMPACTS ON THE PHYSICAL ENVIRONMENT"**

Lecture 1: TR 9-9:50; Sci D102 [Heywood]

Laboratory 1: on-line [Heywood]

Office: Science D333

Office Hours: on-line; or by appt

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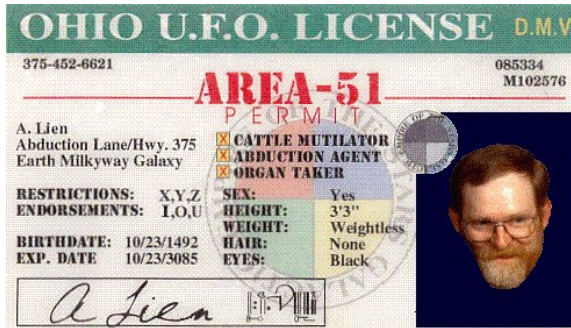
**READ AND RETAIN THIS SYLLABUS!**

"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:** Friedland, A., Relyea, R. & Courard-Hauri, D., 2012. Environmental Science, Foundations & Applications. New York: W. H. Freeman and Company. ISBN= 978-0-471-23643-6. UWSP Textbook rental.

**LAB MATERIALS:** [D2L](#)-Content

**ATTENDANCE/GRADES:** Except while enrolling waiting-list applicants during the first week, I usually do not record your presence at lecture. Lecture 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. Page 3 of this syllabus enables you to check your grade.

<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%

There has been considerable confusion regarding my availability. Another class immediately follows ours, so **AFTER LECTURE IN D102 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 100.

**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". 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, performances, 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 on [D2L](#), in the Content module "Audio Recordings".

- LEARNING OUTCOMES:** Upon completion of this course, GEOG 100 students should understand:
- the workings of the atmosphere, biosphere, hydrosphere, and lithosphere.
  - principles of the scientific method as it pertains to the natural, physical world.
  - the relevance of environmental science to their lives and society, and competing claims.
  - scientific concepts, quantitative techniques and methods, and geospatial technologies for solving environmental problems and making decisions that affect the natural world.

**GEOG 100-1 [Heywood] AUTUMN 2017 CALENDAR**

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

DATE	LECTURES	TEXT READINGS	DATES	LAB	TOPIC
T05SEP	<a href="#">Introduction</a>	<a href="#">Check out GEO on-line</a>	<b>S09SEP</b>	-	<a href="#">Return D2L surveys</a>
	Sustainability	pp. 8-13	R07SEP	1	Ecological Footprints
	Human Population	pp. 179-193; Pernin	R14SEP	2	Human Populations
	Population Impact	pp. 179-193	<b>S16SEP</b>	<b>QUIZ 1</b>	<a href="#">Submit via D2L by 5 PM</a>
	Science Principles	pp. 28-46	R21SEP	3	Carbon Cycles
	BioChemical Cycles	pp. 65-73			
	Air Circulation	pp. 87-99	R28SEP	4	Climate Change
	Climates	Kaufman pp. 56-60	<b>S30SEP</b>	<b>QUIZ 2</b>	<a href="#">Submit via D2L by 5 PM</a>
	Climate Change1	pp. 517-540			
T04OCT	Climate Change2	pp. 517-540	R05OCT	5	Climate Models
	Air Quality	pp. 52-55	<b>S07OCT</b>	<b>EXAM I</b>	<a href="#">Submit via D2L by 5 PM</a>
	Air-Sea Pollution	pp. 410-427	R12OCT	6	Air Degradations
	Biotic Distributions	pp. 99-107			
	Biotic Systems	pp. 58-77	R19OCT	7	Biomes
	Tolerance and Succession	Kaufman pp. 157-160	<b>S21OCT</b>	<b>QUIZ 3</b>	<a href="#">Submit via D2L by 5 PM</a>
	Biotic Diversity	pp. 120-145; 291-292	R26OCT	8	Biogeography
	Biotic Relocations	pp. 496-506			
	Endangerment	Downs	R02NOV	8a	Hawaiian Rainforest Management
	WI Eco Landscapes	<a href="#">none</a>	<b>S04NOV</b>	<b>EXAM II</b>	<a href="#">Submit via D2L by 5 PM</a>
T08NOV	Hydrologic Cycles	Heberlein	R09NOV	9	Soil Survey
	<b>Soils (on-line)</b>	pp. 219-226			
	Soil Degradations	Kaufman pp. 315-327	R16NOV	10	Sustainable Agriculture
	Lithosphere Processes	pp. 206-219			
	Lithosphere Resources	Chapter 12	R23NOV	11	Mineral Resources
<b>R23NOV</b>	<b>NO LECTURE</b>		<b>S25NOV</b>	<b>QUIZ4</b>	<a href="#">Submit via D2L by 5 PM</a>
	Running Water	pp. 236-253	R30NOV	12	Water
	Glacier Implications	pp. 382-398			
	Energy Implications	Hardin	R07DEC	13	Ecologic Economics
	Societal Relevance	none	<b>S09DEC</b>	<b>QUIZ5</b>	<a href="#">Submit via D2L by 5 PM</a>
<b>T19DEC 09:00 in Sci D333 EXAM III 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:** All tests are on-line, open-book, and collaborative (each of you must submit your own answers, however). *Effectively utilizing reference resources and working with other people are life skills, much more valued by society than merely reciting some memorized list.* 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))

$$\text{NEEDED SCORE} = (E - ((E - \text{target score})/\text{remaining ratio}))$$

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.

Refer to the base maps below; a similar North America and/or Wisconsin 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.







## GEOGRAPHY: where it's at, why it's there, what's it mean



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