

“HUMAN IMPACTS ON THE PHYSICAL ENVIRONMENT”

Lecture 1: 100% on-line [Heywood]
Laboratory 1: 100% on-line [Heywood]

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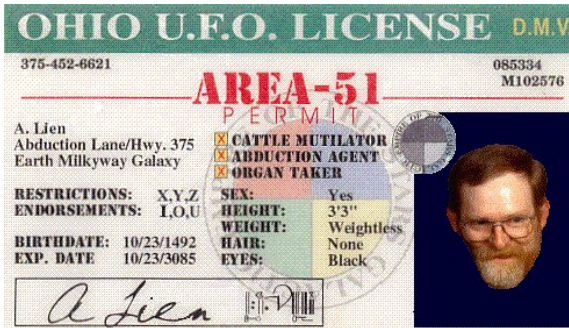
READ AND RETAIN THIS SYLLABUS!

"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: None. All course materials are available on-line at no extra cost.

LAB MATERIALS: All course materials are available on-line on **Canvas**. **You need campus standard load.**

ATTENDANCE/GRADES: Except while enrolling waiting-list applicants during the first week, I will not record your presence. Your notes can verify your participation. Check the current grade sheets that I e-mail to ensure the accuracy of your quiz/exam scores in my bookkeeping. Page 3 of this syllabus enables you to check your grade.

GRADE COMPOSITION: Exam I – due S06JUL	25%
Exam II – due T11JUL	25%
Exam III – due F19JUL	25%
Labs: five 5% quizzes (see calendar next page)	25%

There has been considerable confusion regarding my availability. **Use my e-mail as office hours.** Also, success in life does not come by “extra credit”; there will be **NO** personal extra credit in GEOG 100.

I expect you to do your assigned readings; you can read ours 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 release date.

ADDITIONAL: Please review [Rights and Responsibilities](#) within the UWSP campus community. I adhere to it; so should you. Audio commentary is embedded within each PowerPoint; use *Windows 16*.

- 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] Summer 2019 COMPRESSED CALENDAR

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

DATE	LECTURES	ON-LINE POWERPOINTS	DATES	LAB	TOPIC
"Week"01	Introduction	00Elephants_excised	M24JUN	1	Ecological Footprints
"Week"02	Sustainability	01Sustainability; Pernin	R27JUN	-	Return Canvas surveys
"Week"03	Human Population	02Human_Populations	F04JAN	2	Human Populations
			S29JUN	QUIZ 1	Submit via Canvas by 5 PM
"Week"04	Science Principles	03Science_Principles			
"Week"05	BioChemical Cycles	04BioChemical_Cycles	M01JUL	3	Carbon Cycles
"Week"06	Air Circulation	05Atmospheric_Circulation	W03JUL	QUIZ 2	Submit via Canvas by 5 PM
"Week"07	Climates	06Climates	W03JUL	4, 5, 6	Climate Change
"Week"08	Climate Change	07AirQuality,08Biomes	F05JUL	QUIZ 3	Submit via Canvas by 5 PM
			S06JUL	EXAM 1	Submit via Canvas by 5 PM
See below for more Summer Session 3					
"Week"09	Biosphere1	09Succession, 10Biodiversity	M08JUL	7, 8	Biogeography
"Week"09	Soils	11Soils			
"Week"10	Soil Degradations	11Soils	T09JUL	9, 10	Soil
"Week"10			T09JUL	QUIZ4	Submit via Canvas by 5 PM
"Week"11	Lithosphere Resources	12Geological_Systems	W10JUL	11	Mineral Resources
"Week"11	Lithosphere Processes	12Geological_Systems	R11JUL	EXAM 2	Submit via Canvas by 5 PM
"Week"12	Running Water	13Water_Resources	F12JUL	12	Water, Ecologic Economics?
"Week"13	Glacier Implications	13Water_Resources			
"Week"14	Energy Implications	14Energy	S13JUL	QUIZ5	Submit via Canvas by 5 PM
"Week"15	Societal Relevance	Reflect upon all this			

F19JUL On-line EXAM 3 F19JUL EXAM 3 Submit via Canvas by 5 PM

Knowing that many of you are working during summers, I have reserved the final week entirely for Exam 3 preparation.

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

[News](#)

[WI Road](#)

[free Adobe Reader](#)

[Conditions](#)

[Scholarships](#)

[Wisconsin Job](#)

[Federal Employment](#)

[Center](#)

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: 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 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 "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..." **Use % 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.

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





GEOGRAPHY: where it's at, why it's there, what it means



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