GEOGRAPHY 100 Spring 2020 3 cr. (NS, ER) Dr. Neil C. Heywood

"HUMAN IMPACTS ON THE PHYSICAL ENVIRONMENT"
Lecture 01: TR 10-10:50; Sci D102 [Heywood]
Laboratory 01L1: on-line [Heywood]

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Office Hours: on-line; or by appt
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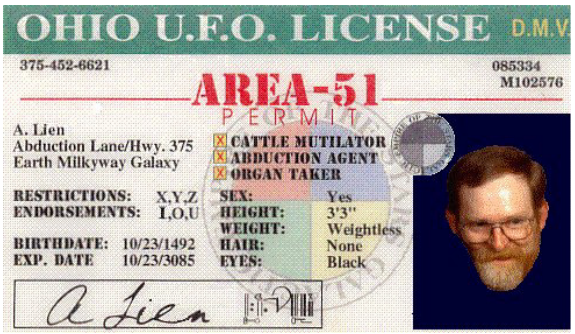

READ AND RETAIN THIS SYLLABUS!

"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."
— *Immanual Kant, 1791 AD*

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

TEXT: Canvas. ***PowerPoints only. There are NO bookstore purchases required for this course.***

LAB MATERIALS: Canvas. ***There is a PowerPoint and two Adobe documents for each lab.***

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 Canvas-Administative 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 S22FEB 25%
Exam II – due S04APR 25%
Exam III – due Thursday 14MAY 25%
Labs: five 5% quizzes (**see calendar** 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 release 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 Canvas, embedded within PowerPoints. *You MUST use the campus standard load version.*

LEARNING OUTCOMES: Upon completion of this course, GEOG 100 students should understand:

a. the workings of the atmosphere, biosphere, hydrosphere, and lithosphere.
b. principles of the scientific method as it pertains to the natural, physical world.
c. the relevance of environmental science to their lives and society, and competing claims.
d. scientific concepts, quantitative techniques and methods, and geospatial technologies for solving environmental problems and making decisions that affect the natural world.

GEOG 100-01 [Heywood] Spring 2020 CALENDAR

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

You MUST have campus standard load versions. See the IT Help Desk for installment.

DATE	LECTURES	TEXT READINGS	DATES	LAB	TOPIC (on Canvas)
T21JAN	Introduction	00Elephants_excised	Week 1	1	***Ecological Footprints***
	Sustainability	01Sustainability; Pernin	***S25JAN***	-	**Return Canvas surveys**
	Human Population	02Human_Populations			
	Population Impact	02Human_Populations	Week 2	2	Human Populations
	Science Principles	03Science_Principles	***S01FEB***	***QUIZ 1***	**Submit via Canvas by 5 PM**
	BioChemical Cycles	04BioChemical_Cycles	Week 3	3	Carbon Cycles
	Air Circulation	05Atmospheric_Circulation			
	Climates	06Climates	Week 4	4	Climate Change
	Climate Change1	06Climates	***S15FEB***	***QUIZ 2***	**Submit via Canvas by 5 PM**
T27FEB	Climate Change2	06Climates	Week 5	5	Climate Models
	Air Quality	07AirQuality	***S22FEB***	***EXAM I***	**Submit via Canvas by 5 PM**
	Air-Sea Pollution	07AirQuality	Week 6	6	Air Degradations
	Biotic Distributions	08Biomes			
	Biotic Systems	08Biomes, Heberlein	Week 7	7	Biomes
	Tolerance and Succession	09Succession	***S17MAR***	***QUIZ 3***	**Submit via Canvas by 5 PM**
	Biotic Diversity	10Biodiversity	Week 8	8	Biogeography
	Biotic Relocations	10Biodiversity			
14-22MAR	***NO LECTURES***	***SPRING BREAK***	14-22MAR	***NO LAB***	***SPRING BREAK***
	Endangerment	10Biodiversity	Week 9	8a	Hawaiian Rainforest Management
	WI Eco Landscapes	none	***S04APR***	***EXAM II***	**Submit via Canvas by 5 PM**
T24MAR	Hydrologic Cycles	11Soils	Week 9	9	Soil Survey
	Soils (on-line)	11Soils			
	Soil Degradations	11Soils, Hardin	Week 10	10	Sustainable Agriculture
	Lithosphere Processes	12Geological_Systems			
	Lithosphere Resources	12Geological_Systems	Week 11	11	Mineral Resources
			S25APR	***QUIZ4***	**Submit via Canvas by 5 PM**
	Running Water	13Water_Resources	Week 12	12	Water
	Glacier Implications	13Water_Resources			
	Energy Implications	14Energy	Week 15	-	Group study
	Societal Relevance	14Energy, Hardin	***S09MAY***	***QUIZ5***	**Submit via Canvas by 5 PM**
R14MAY	**14:45 in Sci D102**	**EXAM III**	***I MUST attend!***	***EXAM III***	**Submit via Canvas 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: **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 **Canvas** corresponds with the preview option letter; the **Canvas** 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 **Canvas**'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.

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