

“HUMAN IMPACTS ON THE PHYSICAL ENVIRONMENT”

Lecture 01: TR 8 AM [Heywood] Science B328

Lecture 04: 100% on-line [Heywood]

Laboratory 01L1, 04L1: 100% on-line [Heywood]

READ AND RETAIN THIS SYLLABUS!

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Office Hours: on-line

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"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

"Having safeguards for some, but not all, is like having a peeing section in a public swimming pool."
— Heywood, 2020 AD

TEXT: None. All course materials are available on [Canvas](#) at no extra cost. There are no bookstore purchases or rentals. Download your own copies; **do not live-stream!**

LAB MATERIALS: All course materials and content are available on-line at [Canvas](#). You will need campus standard load. Contact the Information Technology Help Desk (714-346-4357) for free installment.

ATTENDANCE/GRADES: I will not record your personal attendance; on-line tests 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. **I cannot accept enrollment above 100 registrants. Download everything**, for when (not if) the UW delivery systems fail.

I have been ordered to communicate with you **only** via University e-mail. This is subject to Open Records Law, so be careful of what you say in response. Anybody requesting it can read ours.

GRADE COMPOSITION: Exam 1 – due S26FEB	25%
Exam 2 – due S02APR	25%
Exam 3 – due T17MAY	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 shall 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". I focus **Exams** upon the topics that I cover in **lecture**. **Quizzes** cover **lab** topics. Exams and quizzes are **NOT** cumulative.

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 100-01/04 [Heywood] Spring 2022 CALENDAR

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

Be aware that this is my final full semester at UWSP. Be on time.

DATE	LECTURES	POWERPOINTS	DATES	LABS	ADOBE EXERCISES
T25JAN	Introduction Sustainability Human Population Population Impact Science Principles BioChemical Cycles Air Circulation Climates Climate Change1	00Elephants 01Sustainability; Pernin 02Human_Populations 02Human_Populations 03Science_Principles 04BioChemical_Cycles 05Atmospheric_Circulation 06Climates 06Climates	Week 01 S29JAN Week 02 S05FEB Week 03 Week 04a S19FEB	01 - 02 QUIZ 1 03 04 QUIZ 2	Ecological Footprints Return Canvas surveys Human Populations Submit via Canvas by 11 PM Carbon Cycles Atmospheric Processes Submit via Canvas by 11 PM
T22FEB	Climate Change2 Air Quality Air-Sea Pollution Biotic Distributions Biotic Systems Tolerance and Succession Biotic Diversity Biotic Relocations Endangerment	06Climates 07AirQuality 07AirQuality 08Biomes 08Biomes 09Succession 10Biodiversity 10Biodiversity 10Biodiversity	Week 04b S26FEB Week 04c Week05a Week 05b S05MAR Week 05c	04 EXAM 1 04 05 05 QUIZ 3 05	Atmospheric Processes Submit via Canvas by 11 PM Atmospheric Processes Biogeography Biogeography Submit via Canvas by 11 PM Biogeography
19-27MAR	No lecture	Spring Break	19-27MAR	No lab	Spring Break
	WI Eco Landscapes	none	S02APR	EXAM 2	Submit via Canvas by 11 PM
T05APR	Hydrologic Cycles Soils (on-line) Soil Degradations Lithosphere Processes Lithosphere Resources Running Water Glacier Implications Societal Relevance Societal Relevance	11Soils 11Soils 11Soils 12Geological_Systems 14Energy 13Water_Resources 13Water_Resources Reflect upon all this Heberlein	Week 06a Week 06b Week 07 S23APR Week 08a Week 08b Week 09 S07MAY	06 06 07 QUIZ4 08 08 - QUIZ5	Soils Soils Mineral Resources Submit via Canvas by 11 PM Water Resources Water Resources Group study (use Canvas Chat) Submit via Canvas by 11 PM
T17MAY		EXAM 3	T17MAY	EXAM 3	Submit via Canvas by 11 PM

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

[News](#)
[Scholarships](#)

[WI Road Conditions](#)
[Wisconsin Job Center](#)

[free Adobe Reader](#)
[Federal Employment](#)

ID#: Since so many people in the past have proven unable to comprehend my former "Class ID#", I will now report scores using your UW-System ID#, as printed on your ID card (these should appear as "STPxxxxxxx").

This will be my 66th and final regular semester at UWSP. Beyond that, I will not be available to finish Incomplete grades. Like skydiving, heart surgery, and nuclear hand grenades—there are no second chances. Do it correctly the first time !



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, vastly more valued by society than merely reciting some memorized list. This is an applied course; do not expect mere recitation on tests. It is necessary, but not sufficient, to know facts and methods. You must demonstrate that you can use these to solve problems ("Critical Thinking"). Some common test-taking mistakes to avoid (a mistake is an error that shouldn't have happened): [Hear also "[GEOG100-105 Test-taking W2017OCT11.mp3](#)".]

- 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 "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. Welcome to the joys of UW-System Canvas.
- 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-	$\geq 92.5\%$ = 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.



