

“THE DYNAMIC EARTH”

Lecture 01: MW 8 AM [Heywood] Sci B328

Laboratory 01L1: 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 installation.

GRADE COMPOSITION: Exam I – due S26FEB	25%
Exam II – due S02APR	25%
Exam III – due Monday 16MAY	25%
Labs: five 5% quizzes (see calendar next page)	25%

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 40 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.

There has been considerable confusion regarding my availability. **Use nheywood@uwsp.edu as office hours.** Success does not come by “extra credit”; so there shall be **NO** personal extra credit in 105.

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 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 105-01 [Heywood] SPRING 2022 CALENDAR

Do not purchase the lab manual intended for other GEOG 105 sections.

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

DATE	LECTURES	POWERPOINTS	LABS	TOPIC
M24JAN	Introduction Air Structure/Material Insolation Temperature Pressure/Wind Hydrologic Cycle Cyclones/Fronts Storm, Fire, and Ice Köppen Climates	GEOG 105_00 GEOG 105_01 GEOG 105_02 GEOG 105_03 GEOG 105_04 GEOG 105_05 GEOG 105_06 Bioclimate_Calculator GEOG 105_07	Week 01 S29JAN Week 02 S05FEB Week 03 Week 04 S19FEB	LAB01 Sunlight Survey Return "Quiz test" by Saturday LAB02 Temperature/Pressure-Wind QUIZ 1 Submit via Canvas by 11 PM LAB03 Moisture LAB04 Weather Maps QUIZ 2 Submit via Canvas by 11 PM
M21FEB	Effective Moisture Soil Properties Biotic Tolerance Biotic Ranges Biotic Relocations Forests Arid Ecosystems Arid Ecosystems Endangerment	GEOG 105_08 GEOG 105_09 GEOG 105_10 GEOG 105_11 GEOG 105_12 GEOG 105_08 GEOG 105_08 GEOG 105_08 GEOG 105_13	Week 05 S26FEB Week 06 Week 06 S05MAR Week 07 Week 08 -	LAB05 Köppen Climates EXAM 1 Submit via Canvas by 11 PM LAB06a Soil Moisture Properties LAB06b NPP & Decay QUIZ 3 Submit via Canvas by 11 PM - <i>video The Invaders</i> Group Study Exam 2
19-27MAR	No lecture	Spring Break	19-27MAR	No lab Spring Break
	Endangerment WI Ecol Landscapes	GEOG 105_13 WI-DNR	Week 09 S02APR	LAB07a Topographic/Geology Maps EXAM 2 Submit via Canvas by 11 PM
M04APR	Rock Types/Materials Geologic Cycles Crustal Motion Vulcanism Diastrophism Earthquakes Fluvial Processes1 Fluvial Processes2 Glacial Processes Glacial Landforms	GEOG 105_14 GEOG 105_15 GEOG 105_16 GEOG 105_17 GEOG 105_18 USGS-NEIC GEOG 105_19 GEOG 105_19 GEOG 105_20 GEOG 105_20	Week 10 Week 11 Week 12 S23APR Week 13 Week 14 S07MAY	LAB07b Rock Types LAB08 Igneous Landforms LAB09a Fluvial Processes QUIZ4 Submit via Canvas by 11 PM LAB09b Floodplains/Coastal LAB10 Glacial Landscapes QUIZ5 Submit via Canvas by 11 PM
M16MAY	EXAM 3	EXAM 3	M16MAY	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 and your information resources 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-	>=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.

Note the base maps below; a similar North America map (without the same 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 it means



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