

GEOG 181 (Fall 2019; 12493)

Syllabus for Our Digital Earth

Welcome to Our Digital Earth.

This course is about you and your place in the map. We will discuss the use of online mapping, satellite images, crowd sourcing, mobile technologies for responding to natural disasters, galvanizing underrepresented communities, and embedding spatial information into our daily activities. Through this course, you will learn about how geospatial data are collected and used, how geospatial technologies have transformed the way we think and make decisions, and the important societal issues that result from the proliferation of new technologies. In addition, you will have an opportunity to learn different geospatial technologies such as web-based mapping software applications that allow you to create custom maps and create websites to communicate your work with the world over the Web.

Course Instructors:

Name and Role	Contact Info	Office Location	Office Hours
W. Andrew Marcus (professor)	email via Canvas	164 Condon	Tues/Thur 11:30-12:30 - or by appointment
Weicheng Wang (lab instructor)	email via Canvas	246 Columbia	Tuesday 2-4 - or by appointment
Dion Webster (lab instructor)	email via Canvas	105 Condon	Thursday, 2-4 - or by appointment

Course Location and Schedule:

What	When	Where
Lecture	Tuesday/Thursday 10:00 - 11:20 am	Tykeson 204
Labs	Wednesday: 10 - 10:50 am (W. Wang) 11 - 11:50 am (W. Wang) Friday: 10 - 10:50 am (D. Webster) 11- 11:50 am (D. Webster)	442 McKenzie

Required Material:

MacMillan Publishers/Sapling Learning – Our Digital Earth readings and labs:

Each student is responsible for acquiring the Our Digital Earth course material, which is free for students enrolled in the course. Please follow the instructions in the "Week 1, Pre-lab" (found in the Calendar, the Assignments, and the Modules sidebars in Canvas) to register for Sapling Learning and get access to *Our Digital Earth*.

If you have trouble getting signed up, your lab instructors will help you with this in the Week 1 lab session. You can access the book on desktop/laptop computers, smart phones, or tablets.

ArcGIS Online account:

Please follow the instructions in the "Week 1, Pre-lab" (found in the Calendar, the Assignments, and the Modules sidebar in Canvas) to register for ArcGIS Online. You will need to be up and running in this software by Week 2. The lab session in Week 1 focuses on making sure you get registered to access this software.

Assignments and Grading:

Points are earned through three course activities: Lab Assignments, Exams, and Participation. There are 1100 points possible. Your final grade will be calculated based on a percentage of points earned/points possible.

Lab Assignments: There are four lab assignments, each divided into two parts.

- Assignment 1a – 100 points
- Assignment 1b – 100 points
- Assignment 2a – 100 points
- Assignment 2b – 100 points
- Assignment 3a – 100 points
- Assignment 3b – 100 points
- Assignment 4a – 100 points
- Assignment 4b – 100 points

Exams:

- Midterm – 100 pts
- Final – 100 pts

Participation: Your participation points (calculated as a percentage out of 100%) includes attendance in class, participating in in-class activities, and submitting answers to questions embedded within the assigned reading. There are no make-up opportunities for missing attendance or in-class exercises.

Attendance and Missing Class: On most days, we will conduct in-class activities, most of which factor into your grade. These activities will vary, but may include: quizzes on the readings, group discussion, online question/answer, group activities. The points for each activity will vary slightly. Depending on the assignment, it will be graded for accuracy or completion. Total points in this category will be based on a calculated percentage of points earned based on total available class activity points. Class attendance and participation is the primary component of the class activities. **Therefore, there is no make-up of missed class activities.**

However, if you know in advance that you will miss a class, a lab, or an examination for academic reasons (i.e. for another class or program), athletic travel, the observance of a religious holy day, or other legitimate reason, you should inform the instructor as far in advance of the absence as

possible. I or the G.E.s will make arrangements so you can complete the work within a reasonable time after the absence.

PLEASE NOTE: If you choose not to use a laptop, smart phone, or tablet to complete the in-class activities during class, or if you experience technical difficulties when trying to complete the in-class activities, you will need to tell me in person at the end of the class period in which the in-class activity was assigned. If you don't talk with me about missing the in-class activity at the end of the class period in which it was assigned, you will not be able to make up the assignment.

Submitting Assignments: Submit your assignments following the instructions in the Assignment as well as from your lab instructor. The course outline identifies the due dates for each assignment. Late assignments will be penalized 10% per day late. Assignments will not be accepted after 7 days past the submission deadline.

Your final project will not be accepted after the submission deadline. You will receive a 0% on that exercise if it is not submitted by the assigned deadline.

Extra credit is **NOT** offered.

Expectations and Academic Conduct:

Meaningful and constructive dialogue is encouraged in this class and requires a degree of mutual respect, willingness to listen, and tolerance of opposing points of view. Respect for individual differences and alternative viewpoints will be maintained at all times in this class. One's words and use of language should be temperate and within acceptable bounds of civility and decency. Since every student is entitled to full participation in class without interruption, all students are expected to come to class prepared and on time, and remain for the full class period. All pagers, wireless phones, games, players or other electronic devices that generate sound and/or pictures must be turned off during class. Disruptive behaviors, including excessive talking, arriving late to class, sleeping, reading newspapers, using unauthorized electronic devices during class is not permitted.

The University Student Conduct Code (available at conduct.uoregon.edu) defines academic misconduct. Students are prohibited from committing or attempting to commit any act that constitutes academic misconduct. By way of example, students should not give or receive (or attempt to give or receive) unauthorized help on assignments or examinations without express permission from the instructor. Students should properly acknowledge and document all sources of information (e.g. quotations, paraphrases, ideas) and use only the sources and resources authorized by the instructor. If there is any question about whether an act constitutes academic misconduct, it is the students' obligation to clarify the question with the instructor before committing or attempting to commit the act. Additional information about a common form of academic misconduct, plagiarism, is available at researchguides.uoregon.edu/citing-plagiarism/plagiarism.

Accessibility:

The University of Oregon is working to create inclusive learning environments. Please notify me if there are aspects of the instruction or design of this course that result in disability-related barriers to your participation. You are also encouraged to contact the Accessible Education Center in 164 Oregon Hall at 541-346-1155 or uoaec@uoregon.edu.

Course Summary:

Date	Details
Tue Oct 1, 2019	Calendar Event First day of class - WELCOME!!!
	Calendar Event Lecture 1:Introduction
	Assignment Reading: Chapter 1
Wed Oct 2, 2019	Calendar Event Pre-lab: Welcome and orientation. Weicheng's labs meet each Wednesday from 10-10:50 and 11-11:50 am
Thu Oct 3, 2019	Calendar Event Lecture 2: How do you know where you are?
	Assignment Reading: Chapter 2
Fri Oct 4, 2019	Calendar Event Pre-lab: Welcome and orientation. Dion's labs meet each Friday from 10-10:50 and 11-11:50 am
Tue Oct 8, 2019	Calendar Event Lecture 3: Geospatial Literacy & Spatial Patterns
	Assignment Reading: Chapter 3
Wed Oct 9, 2019	Calendar Event LAB 1a, Food and Social Justice (Weicheng labs)
Thu Oct 10, 2019	Calendar Event Lecture 4: Distortion and Scale
Fri Oct 11, 2019	Calendar Event LAB 1a, Food and Social Justice (Dion labs)
Tue Oct 15, 2019	Calendar Event Reading: Chapter 4.1 - 4.3
	Calendar Event Lecture 5: Spatial Data
	Assignment DUE - LAB 1a for Weicheng, URL map Submission
Wed Oct 16, 2019	Calendar Event LAB 1b , Food and Social Justice (Weicheng labs)

Date	Details	
Thu Oct 17, 2019	Calendar Event	Lecture 6: Gridded Data
	Assignment	DUE - LAB 1a for Dion, URL map Submission
	Assignment	Reading: Chapter 4.4
Fri Oct 18, 2019	Calendar Event	LAB 1b, Food and Social Justice (Dion labs)
Tue Oct 22, 2019	Calendar Event	Lecture 7: Map Apps
	Calendar Event	Joanna Merson - guest lecture on apps
	Assignment	DUE - LAB 1b for Weicheng, URL map submission
	Assignment	Reading: Chapter 4.5
Wed Oct 23, 2019	Calendar Event	LAB 2a, Creating a Map App (Weicheng labs)
Thu Oct 24, 2019	Calendar Event	Lecture 8: Attribute Data
	Assignment	GPS Exercise
	Assignment	DUE - LAB 1b for Dion, URL map submission
	Assignment	Reading: Chapter 5.1 - 5.2
Fri Oct 25, 2019	Calendar Event	LAB 2a, Creating a Map App (Dion labs)
Tue Oct 29, 2019	Calendar Event	Lecture 9: How does my phone know where I am?
	Assignment	DUE - LAB 2a for Weicheng, URL map submission
	Assignment	Reading: Chapter 5.3
Wed Oct 30, 2019	Calendar Event	LAB 2b. Creating a Map App (Weicheng labs)
Thu Oct 31, 2019	Calendar Event	MIDTERM EXAM
	Assignment	DUE - LAB 2a for Dion, URL map submission
Fri Nov 1, 2019	Calendar Event	LAB 2b, Creating a Map App (Dion labs)
Tue Nov 5, 2019	Calendar Event	Lecture 10: Images from space

Date	Details
	Assignment DUE - LAB 2b for Weicheng, URL map submission
	Assignment Reading: Chapter 5.4
Wed Nov 6, 2019	Calendar Event LAB 3a, Storytelling with Maps (Weicheng labs)
	Calendar Event Lecture 11: Maps & Placemaking
Thu Nov 7, 2019	Calendar Event Guest lecture - James Meacham on Map Making
	Assignment Reading: Chapter 6
	Assignment DUE - LAB 2b for Dion, URL map submission
Fri Nov 8, 2019	Calendar Event LAB 3a, Storytelling with Maps (Dion labs)
	Calendar Event Lecture 12: Geographic Information Systems
Tue Nov 12, 2019	Assignment DUE - LAB 3a for Weicheng, pdf submission
	Assignment Reading: Chapter 5.5
Wed Nov 13, 2019	Calendar Event LAB 3b, Storytelling with Maps (Weicheng labs)
	Calendar Event Lecture 13: Geographic Information Systems
Thu Nov 14, 2019	Assignment DUE - LAB 3a for Dion, pdf submission
	Assignment Reading: Chapter 7.1 - 7.3
Fri Nov 15, 2019	Calendar Event LAB 3b, Storytelling with Maps (Dion labs)
	Calendar Event Lecture 14: Geographic Information Systems
Tue Nov 19, 2019	Assignment DUE - LAB 3b for Weicheng,, URL map submission
	Assignment Reading: Chapter 7.4
Wed Nov 20, 2019	Calendar Event LAB 4a, Social Media Crisis Response (Weicheng labs)
Thu Nov 21, 2019	Calendar Event Lecture 15: Citizen Science

Date	Details	
	Assignment	Viewshed Analysis
	Assignment	DUE - LAB 3b for Dion, URL map submission
Fri Nov 22, 2019	Calendar Event	LAB 4a, Social Media Crisis Response (Dion labs)
Tue Nov 26, 2019	Calendar Event	Lecture 16: Privacy on the GeoWeb
	Assignment	Reading: Chapter 8
Wed Nov 27, 2019	Calendar Event	NO LAB this week
Thu Nov 28, 2019	Calendar Event	THANKSGIVING
Fri Nov 29, 2019	Calendar Event	NO LAB this week
Tue Dec 3, 2019	Calendar Event	Lecture 17: Digital Humanitarianism
	Assignment	DUE - LAB 4a for Weicheng, URL map submission
	Assignment	Reading: Chapter 10
	Assignment	Reading: Chapter 9
Wed Dec 4, 2019	Calendar Event	LAB 4b, Digital Humanitarianism (Weicheng labs)
Thu Dec 5, 2019	Calendar Event	Lecture 18: The future of Our Digital Earth
	Assignment	DUE - LAB 4a for Dion, URL map submission
	Assignment	Reading: Chapter 11
Fri Dec 6, 2019	Calendar Event	LAB 4b, Digital Humanitarianism (Dion labs)
Mon Dec 9, 2019	Calendar Event	FINAL EXAM for Geog 181, Tykeson 204
Wed Dec 11, 2019	Assignment	DUE for ENTIRE CLASS, Lab 4b Map, URL map submission