

ID 351d Course Schedule Spring 2021

Subject to Revision v1.1 021221

Week 1

Wednesday 2/3 - Class Introduction

- Course Overview
- Review of GIS data management
- Cartographic and Design Principles

Friday 2/5 - ArcGIS Pro Bootcamp

Assignment 01 due at start of class

- ArcGIS Pro Intro
- Areal Weighted Reaggregation

Week 2

Wednesday 2/10 - ArcGIS Pro

Assignment 02 due at start of class

- Pitch presentations from community project partners
- ArcGIS refresher continued

Friday 2/12 - ArcGIS Pro

- Pitch presentations from community project partners

Week 3

Wednesday 2/17 - ArcGIS Pro

- Working with raster and vector data, along with geoprocessing tools.
- Map layout
- Importing data

Friday 2/19 - ArcGIS Pro

- Eliana Lesson
- Intro to LIDAR data
- Least Cost Path Analysis - Stone Age human movement

Week 4

Wednesday 2/24 - ArcGIS Pro

Assignment 03 due at Start of Class

- Eli Lesson
- LIDAR analysis Continued

Friday 2/26 - ArcGIS Pro

- Taylor Lesson
- 3D Scenes in ArcGIS Pro

Week 5

Wednesday 3/3 - ArcGIS Pro

Assignment 04 - Project Outline and Lit Review due at start of class

- Emme Lesson
- ArcGIS Online Integration with Pro
- Syncing with Collector

Friday 3/5 - Remote Sensing Intro

- Sarah Lesson
- Atmospheric Science Basics
- Remote Sensing Plugins

Week 6

Wednesday 3/10 - Remote Sensing ArcGIS Pro

- Amity Lesson
- Preparing Landsat Imagery

Friday 3/12 - ArcPy

Assignment 05 due at Start of Class

- Abby Lesson
- Intro to Python scripting
- Model Builder hacking
- Hydrologic Modeling

Week 7

Wednesday 3/17 - Google Earth Engine

- Siddharth Lesson
- Intro to coding and Javascript
- Landsat Prep in GEE

Friday 3/19 - Google Earth Engine

- Jacob Lesson
- Functions in GEE

Week 8

Wednesday 3/24 - Google Earth Engine

Assignment 06 due at start of class

- Shaylan Lesson
- Building an App User interface

Friday 3/26 - No class!

Week 9

Wednesday 3/31 - R

- Sammi Lesson
- Intro to the R language

Friday 4/2 - R

- Morgan Lesson
- Spatial packages in R
- Projections in R

Week 10

Wednesday 4/7 - R

- Mateo Lesson
- Work on R project in class

Friday 4/9 - R

Assignment 07 due at start of class

- Christina Lesson 15
- Rough-draft presentations

Week 11**Wednesday 4/14 - Workshop with Dana Allen - FluidState Consulting**

- Sophia Lesson
- In class workshop on Water Quality

Friday 4/16 - Workshop with Fire expert

- In class workshop on Fire Mapping

Week 12**Wednesday 4/21 - Workshop with Nick Benjamin - Clearway Energy**

- In class workshop on Renewable Energy siting

Friday 4/23 - Project Time

- Open time for project work

Week 13**Wednesday 4/28 - Project Time**

- Open time for project work

Friday 4/30 - Final Presentations: pt 1

- Final Presentations

Week 14**Tuesday 5/4 - Final Project Due**

Assignments					
#	Topic	Pts	%	Due Date	Platform
1	Map Copy	3	4%	2/5	ArcGIS Pro
2	Area-Weighted Re-Aggregation	5	7%	2/10	ArcGIS Pro
3	Least Cost Path Analysis	5	7%	2/24	ArcGIS Pro
4	Project Outline and Lit Review	5	7%	3/3	Word/Docs
5	Remote Sensing - Landsat	5	7%	3/12	ArcGIS Pro
6	Coding 1 - GEE	5	7%	3/24	Google Earth Engine
7	Coding 2 - R	5	7%	4/9	R
Final Project and Participation					
	Topic	Pts	%	Due Date	Platform
	Initial Presentation	2	3%	4/7	Powerpoint/Slides
	Final Presentation	5	7%	4/30	Powerpoint/Slides
	Final Project	20	27%	5/4	PDF & Story Map
	Teaching	10	13%	-	Your choice
	Participation	5	7%	-	-