

Introduction to Geographic Information Systems schedule, Fall 2016

Last updated: Wednesday August 17 2016

<i>Date</i>	<i>Events</i>
—Week 1—	
Tu 30 Aug	Course introduction and background, meet ArcGIS 10
Th 01 Sep	Asking geographic questions, spatial visualization and mapmaking <i>Readings:</i> Campbell and Shin, Chs. 1, 2.1, and 2.3
—Week 2—	
Tu 06 Sep	Building quality maps for the plotter or for document figures <i>Readings:</i> Campbell and Shin, Ch. 9
Th 08 Sep	The science of location: defining coordinate systems <i>Readings:</i> Campbell and Shin, Ch. 2.2
—Week 3—	
Tu 13 Sep	Working with coordinate systems in ArcGIS
Th 15 Sep	No class: Nick on regional geology trip
—Week 4—	
Tu 20 Sep	The vector data model: shapefiles <i>Readings:</i> Campbell and Shin, Chs. 3, 4.2
Th 22 Sep	Vector formats, digitizing
—Week 5—	
Tu 27 Sep	No class: Nick at GSA meeting
Th 29 Sep	No class: Nick at GSA meeting
—Week 6—	
Tu 04 Oct	Attribute data, relational databases, and queries <i>Readings:</i> Campbell and Shin, Chs. 5, 6.2 Project topics: schedule meeting with me
Th 06 Oct	October break: no classes
—Week 7—	
Tu 11 Oct	Using location and attribute queries in a spatial analysis
Th 13 Oct	Getting location data with GPS <i>Readings:</i> Zogg 2002, Chs. 1-3
—Week 8—	
Tu 18 Oct	Importing and displaying external data in a map <i>Readings:</i> Nature, 2008 Projects: Proposal due
Th 20 Oct	The raster data model <i>Readings:</i> Campbell and Shin, Ch. 4.1, 6.3
—Week 9—	
Tu 25 Oct	Spatial analyst: tricks with raster data <i>Readings:</i> Campbell and Shin, Ch. 8

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Th 27 Oct	Remote sensing: spectral and spatial properties
—Week 10—	
Tu 01 Nov	Come prepared to work on projects
Th 03 Nov	Working with multiband imagery in ArcGIS <i>Readings: Sultan et al., 1987</i>
—Week 11—	
Tu 08 Nov	Projects: Data assignment due Come prepared to work on projects
Th 10 Nov	Terrain visualization with LiDAR <i>Readings: NOAA, 2012, Chs. 1-2</i>
—Week 12—	
Tu 15 Nov	Projects: Show me your progress during class time Come prepared to work on projects
Th 17 Nov	ArcScene mini-lab <i>Readings: Shephard, 2003</i>
November 19-27: Thanksgiving Break	
—Week 13—	
Tu 29 Nov	Come prepared to work on projects
Th 01 Dec	ModelBuilder mini-lab <i>Readings: Pfaff and Glennon, 2004; skim Chaaban et al., 2012</i>
—Week 14—	
Tu 06 Dec	Come prepared to work on projects
Th 08 Dec	Come prepared to work on projects
—Week 15—	
Th 15 Dec	Final presentations and projects due