

GEOG 341 LECTURE SCHEDULE

Wk	Date	Topic	Required Readings
1	1/22	Welcome to GIS I	Course syllabus and course access instructions
	1/24	What is GIS?	Longley et al. Ch. 1
2	1/29	GIS, GIScience and GISP's	Goodchild article pp. 31-45 Hong article pp. 147-158
	1/31	GIS, GIScience and GISP's	
3	2/5	Earth Measurement	Kimerling et al. Ch. 1 pp. 5-11, 16-19 Longley et al. Ch. 4 pp. 86-88
	2/7	Earth Measurement	
4	2/12	Map projections and coordinate systems	Longley et al. Ch. 4 pp. 88-94 Kimerling et al. Ch. 3 & 4
	2/14	Map projections and coordinate systems	
5	2/19	Geographic Representations	Longley et al. Ch. 2 pp. 33-36 Longley et al. Ch. 3
	2/21	Geographic Representations	
6	2/26	GIS Data Models	Longley et al. ch. 7
	2/28	GIS Data Models / Topology	ArcGIS Topology Rules Arctur and Zeiler Ch. 1 pp. 2-23
7	3/5	GIS Database Design	Longley et al. Ch. 9 Arctur and Zeiler Ch. 1 pp. 2-23
	3/7	GIS Database Design	GIS Lounge - Digitizing Errors in GIS
8	3/12	Open	
	3/14	Midterm Exam	

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Wk	Date	Topic	Required Readings
9	3/19	GIS Data Collection	Longley et al. Ch. 8
	3/21	GIS Data Collection	
10	3/26	Spring Break	
	3/28	Spring Break	
11	4/2	Global Positioning Systems	Bolstad Ch. 5 El-Rabbany Ch. 1
	4/4	Global Positioning Systems	
12	4/9	Vector Extract, Overlay, Proximity Analyses	TBA
	4/11	Vector Extract, Overlay, Proximity Analyses	
13	4/16	Queries: Location and Attribute Selection	
	4/18	Queries: Location and Attribute Selection	
14	4/23	Raster spatial analyses	Bolstad ch. 10
	4/25	Raster spatial analyses	
15	4/30	Metadata	Longley et al. Ch. 11 pp. 222-227 FGDC: Top 10 Metadata errors
	5/2	Metadata	
16	5/7	GIS and Society: Ethics	URISA: GIS Code of Ethics Davis: Ethical Decision Making
	5/9	GIS and Society: Ethics case studies	Ethics Case studies: Bear Baiting, Mapping Muslim Neighborhoods
17	5/15	Final Exam: Tuesday, May 15 - 12:30-14:30	

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GEOG 341 LAB SCHEDULE (Lab 1 - Tuesday 12-1:50pm)

Wk	Day	Exercise	Date Due
1	1/23	No lab	NA
2	1/30	Ex. 1. ArcGIS familiarization	2/5
3	2/6	Ex. 2. Data acquisition and metadata	2/12
4	2/13	Ex. 3. Map projections and coordinate systems	2/19
5	2/20	Ex. 4. Map layout fundamentals	2/26
6	2/27	Ex. 5. Create and assess vector topology	3/5
7	3/6	Ex. 6a. Create, edit, and assess vector point data (heads-up digitizing)	3/12
8	3/13	Ex. 6b. Create, edit, and assess vector line data (heads-up digitizing)	3/19
9	3/20	Ex. 6c. Create, edit, and assess vector polygon data (heads-up digitizing)	3/26
10	3/27	Spring Break	
11	4/3	Ex. 7. Create and Assess GPS Data	4/9
12	4/10	Ex. 8. Vector Spatial Analysis	4/16
13	4/17	Ex. 9. Spatial and attribute queries	4/23
14	4/24	Ex. 10. Get Started with ArcGIS Pro	4/30
15	5/1	Ex. 11. Getting to know QGIS	5/7
16	5/8	No lab	
17		Final Exam: Tuesday, May 15 - 12:30-14:30	

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GEOG 341 LAB SCHEDULE (Lab 2 - Monday 2:00pm-3:50pm)

Wk	Day	Exercise	Date Due
1	1/22	No lab	NA
2	1/29	Ex. 1. ArcGIS familiarization	2/4
3	2/5	Ex. 2. Data acquisition and metadata	2/11
4	2/12	Ex. 3. Map projections and coordinate systems	2/18
5	2/19	Ex. 4. Map layout fundamentals	2/25
6	2/26	Ex. 5. Create and assess vector topology	3/4
7	3/5	Ex. 6a. Create, edit, and assess vector point data (heads-up digitizing)	3/11
8	3/12	Ex. 6b. Create, edit, and assess vector line data (heads-up digitizing)	3/18
9	3/19	Ex. 6c. Create, edit, and assess vector polygon data (heads-up digitizing)	3/25
10	3/26	Spring Break	
11	4/2	Ex. 7. Create and Assess GPS Data	4/8
12	4/9	Ex. 8. Vector Spatial Analysis	4/15
13	4/16	Ex. 9. Spatial and attribute queries	4/22
14	4/23	Ex. 10. Get Started with ArcGIS Pro	4/29
15	4/30	Ex. 11. Getting to know QGIS	5/6
16	5/7	No lab	
17		Final Exam: Tuesday, May 15 - 12:30-14:30	

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