Remote Sensing and GIS Environmental Studies 255 Fall, 2003 Prof. Charles Umbanhowar Science Center 258, x3397, ceumb Office Hours: T 11:45-1:15, W 8:00-10:00 or by appointment

Tentative Syllabus

	Tentative Synabus	
Date	Topic(s)	<u>Chapter</u>
Sept. 4	Introduction to GIS and Remote Sensing, Skills	1
Sept. 9	Maps, GIS, and Models of the World	2:20-32
•	Lab: Introduction to ArcGIS 8.3 and Models of the World	6:216-223, 7:242-262
Sept. 11	Models of the World	2:33-48
Бері. 11	Models of the World	2.33 40
Sept. 16	GPSBackground and Theory	2:48-54
Бері. То	Lab: Garmin and Trimble GPS	6:313-314, handout
Cont 10	GPS / Digital Representation of Geographic Data	2:54-60, 3:64-74
Sept. 18	GFS / Digital Representation of Geographic Data	2.34-00, 3.04-74
Sept. 23	Vector Models for Geographic Data	3:84-86, 6:185-201
Берт. 23	Lab: Shapefiles and Other Vector Representations	6, handout
S4 25		
Sept. 25	Vector Models and Data Checking	4 (skim)
Sept. 30	Raster Models for Geographic Data	3:81-84, 5:136-152
Берт. 50	Lab: ArcGIS and Raster Representations, Data Conversion	handouts
Oat 2	•	8:266-287
Oct. 2	Remote Sensing Overview and Introduction	8.200-28/
Oct. 7	Remote Sensing Imagery and Classification	8:287-297
	Lab: Remote Sensing Imagery and Classification	handouts
Oct. 9	Remote Sensing and Digital Terrain Models	9:306-312
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Oct. 14	Remote Sensing Odds and Ends, DQM	9:306-312
	Lab: Digital Terrain Models and Other Visualizations	9:306-312, handout
Oct. 16	Midterm Examination One	,,
Oct. 21	Fall Break	
	Lab: Downloading Files, File Conversions, Scripts	handout
Oct. 23	Project	
	9	
Oct. 28	Project	
	Project (Note that this lab may include a field trip to U of M which will mean we get back ~5 PM)	
Oct. 30	Project	
	9	
Nov. 4	Project	
	Project	
Nov. 6	GIS Data, Managing Projections and Datums	2:46-54
Nov. 11	Spatial Statistics-Overlay Analysis and Buffering	5:152-175, 6:206-223
Nov. 12	Lab: Arcview Overlays and Buffering	handouts
Nov. 16	Spatial Statistics Spatial Arrangement	5:152-174, 10:350-358
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Nov. 18	Spatial Statistics Interpolation and Modelling	9:324-327
Nov. 19	Lab: ArcGIS and Spatial Modelling	9:324-327, 10:365-373, handout
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Dec. 3 Lab: Projects
Dec. 4 Projects

Dec. 9 Projects

Lab: Projects

Dec. 17 Final Examination 2:30-4:30 -- Project Presentations