GEOG 176B

GEOG 176B Technical Issues in GIS / Spatial Data [Winter 2021]

M W 11:00- 12:15 online

(The syllabus is subject to change)

Date	Topic	Text Chapter
	Representing `Real-World' Entities and Phenomena in a Computer	
01/04/21 01/06/21 01/11/21 01/13/21 01/18/21	Representation in a Nutshell Digital Representation Conceptual Models and Data Models: Objects and Fields / Vectors and Raster Data Formats: Coverage Model and Shapefile Holidays	1 2 2 2
01/20/21 01/25/21	Database and Queries for Geographic Data Unified Modeling Language and Simple Feature Specifications	8 8
	Manipulating and Analyzing Data in Geographic Information Systems	
01/27/21 02/01/21 02/03/21 02/08/21	The Nature of Geographic Data and Analysis Data Analysis I: Spatial Interpolation, KDE Data Analysis II: Map Algebra and Buffers Midterm Exam	9 12 10,11
02/08/21 02/10/21 02/15/21	Data Analysis III: Hulls, Clusters, and Paths Holidays	12
	Retrieving, Describing, and Combining Data	
02/17/21 02/22/21 02/24/21 03/01/21 03/03/21	Models and Modeling Data Quality and Uncertainty Location Services and Gazetteers Standards for Geo-Data and Services (o) Geographic Information Retrieval (o)	13 14 (7) 14
03/08/21 03/10/21	Conceptual Modeling and Semantics (o) Finals Review and Outlook (o)	(15)

(o) we typically end up having time to discuss 1-3 of these optional topics

Textbook: Paul Bolstad (2016).GIS Fundamentals, 5th/6th Edition ISBN 978-1506695877

Lab overdue policy: 10% off per day, up to 5 days

Grading: Mid-term exam 30%; final exam: 35%; labs: 35% (no make-up assignments or exams)