

| Week | Date | Day | Topic | Lab exercises | Skills | Reading |
|------|--------|-----|---|--|--------|-------------------------------------|
| 1 | 22-Jan | Tu | Introduction | | | Ch 1 (Bolstad) |
| | 24-Jan | Th | Geographic Principles | | | Lying With Maps (Hand-Out) |
| 2 | 29-Jan | Tu | Spatial Thinking and Reasoning | | | |
| | 31-Jan | Th | Conceptual Spatial Data Models: Vector | | | Ch 2 (Bolstad) |
| 3 | 5-Feb | Tu | Conceptual Spatial Data Models: Raster | | | |
| | 7-Feb | Th | No Class Meeting | L1 File Structures (Due: 2/10) | SB1 | ESRI online |
| 4 | 12-Feb | Tu | Ellipsoids/Geoids/Datums | | | Ch 3 (Bolstad) |
| | 14-Feb | Th | Ellipsoids/Geoids/Datums | L2 Working with Projections (2/17) | SB2 | ESRI online |
| 5 | 19-Feb | Tu | Map Projections | | | |
| | 21-Feb | Th | GCS vs. PCS | L3 ArcMap and ArcCatalog (2/24) | SB3 | ESRI online |
| 6 | 26-Feb | Tu | Review Session | | | |
| | 28-Feb | Th | Exam 1 | Exam 1 | | Review: Ch 1-3; ST1-3; L 1-3 |
| 7 | 5-Mar | Tu | GIS Data Types and Sources | | | Ch 7 (p. 271 - 303) |
| | 7-Mar | Th | Attributes and Databases | L4 Georeferencing, Digitizing, Metadata (3/10) | SB4 | Ch 8 (p. 321-331) |
| 8 | 12-Mar | Tu | GIS Project Design: Final Project Ideas | Intro to Final Project | | Ch 4 (Bolstad) |
| | 14-Mar | Th | No Class Meeting | Work on Final Project Proposal | | ESRI online |
| 9 | 19-Mar | Tu | SPRING BREAK | | | |
| | 21-Mar | Th | SPRING BREAK | | | |
| 10 | 26-Mar | Tu | Database Operations | | | |
| | 28-Mar | Th | Thematic Cartography | L5 Vector Data Analysis (3/31) | SB5 | Ch 8 (p. 307 - 320) |
| 11 | 2-Apr | Tu | GNSS | | | Ch 5 (p.201-216) |
| | 4-Apr | Th | Aerial Images and Remote Sensing | L6 Raster Data Analysis (4/7) | SB6 | Ch 6 (Bolstad) |
| 12 | 9-Apr | Tu | Review Session | | | Ch 4-8; ST4-6; L 4-6 |
| | 11-Apr | Th | Exam 2 | Exam 2 | | |
| 13 | 16-Apr | Tu | Spatial Analysis | | | Ch 9 (Bolstad) |
| | 18-Apr | Th | Spatial Analysis | L7 Problem Solving with GIS (4/21) | SB7 | CH 12 (Bolstad) |
| 14 | 23-Apr | Tu | Spatial Analysis | Final Project work | | Ch 10 (Bolstad) |
| | 25-Apr | Th | Web-Mapping/GIS Ethics | Final Project work | SB8 | Ch 15 (Bolstad) |
| 15 | 30-Apr | Tu | Review Session | Final Project work | | |
| | 2-May | Th | Exam 3 | Exam 3 | | Cumulative |
| | 7-May | Tu | Consultation day | | | |
| | 14-May | Tu | 8:00 a.m. | Project Presentations | | Projects due |

Note: Course schedule may change slightly during the semester. Changes will be announced during class meetings and on Blackboard. Test dates are fixed.