| | | LECTURE SCHEDULE | |
|---|---|---|---|
| **Wk** | **Date** | **Topic** | **Required Readings** |
| 1 | 9/4 | Labor Day | |
| | 9/6 | What is GIS? | Longley et al. Ch. 1 |
| 2 | 9/11 | GIS, GIScience and GISP's | Goodchild article pp. 31-45<br>Hong article pp. 147-158 |
| | 9/13 | GIS, GIScience and GISP's | Goodchild article pp. 31-45<br>Hong article pp. 147-158 |
| 3 | 9/18 | Earth Measurement | Kimerling et al. Ch. 1 pp. 5-11, 16-19<br>Longley et al. Ch. 4 pp. 86-88 |
| | 9/20 | Map projections and coordinate systems | Longley et al. Ch. 4 pp. 88-94<br>Kimerling et al. Ch. 3 & 4 |
| 4 | 9/25 | Geographic Representations | Longley et al. Ch. 3 |
| | 9/27 | Geographic Representations | |
| 5 | 10/2 | Geographic Representations | |
| | 10/4 | GIS Data Models | Longley et al. ch. 7 |
| 6 | 10/9 | GIS Data Models | |
| | 10/11 | GIS Data Models / Topology | ArcGIS Topology Rules<br>Arctur and Zeiler Ch. 1 pp. 2-23 |
| 7 | 10/16 | GIS Data Collection | Longley et al. Ch. 8 |
| | 10/18 | GIS Database Design | Longley et al. Ch. 9<br>Arctur and Zeiler Ch. 1 pp. 2-23 |
| 8 | 10/23 | Uncertainty of Geographic Representations | Longley et al. Ch. 5 pp. 99-117 |
| | 10/25 | **Midterm Exam** | |

## LECTURE SCHEDULE

| Wk | Date | Topic | Required Readings |
|---|---|---|---|
| 9 | 10/30 | Metadata | Longley et al. Ch. 10 pp. 222-225<br>FGDC: Top 10 Metadata errors |
| | 11/1 | Cartographic Design | Robinson et al. Ch. 18 |
| 10 | 11/6 | Global Positioning Systems | Bolstad Ch. 5<br>El-Rabbany Ch. 1 |
| | 11/8 | Queries: Location and Attribute Selection | Longley et al. ch. 13 |
| 11 | 11/13 | Vector Extract, Overlay, Proximity Analyses | |
| | 11/15 | Vector Extract, Overlay, Proximity Analyses | |
| 12 | 11/20 | Geocoding | Esri Help v10.5 pp. 1-18 |
| | 11/22 | Raster spatial analyses | Bolstad ch. 10 |
| 13 | 11/27 | Surface data models/Derivatives | Bolstad ch. 11 |
| | 11/29 | GIS Software | Longley et al. Ch. 6 |
| 14 | 12/4 | GIS Software | Steiniger & Bocher article pp. 1345-1370 |
| | 12/6 | GIS and Society: Ethics | URISA: GIS Code of Ethics |
| 15 | 12/11 | GIS and Society: Ethics case studies | Ethics Case studies: Bear Baiting, Mapping Muslim Neighborhoods |
| | 12/13 | Open | |
| 16 | 12/18 | **Final Exam**<br>**Monday, December 18 10:15AM-12:15PM** | |

*This schedule is subject to modification at the instructor's discretion and/or the actual class progress*