Geography 205 - Mapping and Spatial Analysis

Requirements: reading, lab exercises, 3 exams
Grading: 3 exams 75% (25% each), Labs 25%,
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Office Hours: Tuesdays and Thursdays 10:00-11:00 or by appointment

Teaching Assistant: Kate McQuillian

Course Website: http://www.mtholyoke.edu/proj/cel/resources/course/geog205/index.shtml

Syllabus

Jan. 31 Introduction to Class and Maps... more than paper and ink..!!!
Reading - Chapter 1...

Feb. 2 Exercise 1: (205-ex1) The campus as a map...

Feb. 7 Map Science – projections, coordinates, datums...the messy details!...Reading – Chapters 2,3,4,5,6...

Feb 9 Exploring the Mount Holyoke Quad...Exercise 2: (205-ex2) Map Elements, Measurements and the Compass...

Feb 14 Maps in the Digital Environment... Introduction to Arc-GIS
Exercise 3: (205-ex3)

Feb 16 Thematic Mapping – Visual Display of Spatial Data
Reading – Chapter 11
Reading - Symbolizing Data with ArcMap
Exercise: 4 (205-ex4) Thematic Mapping with ArcGIS...

Feb 21 Analytical Uses of Maps - A Review

Feb 23 Thematic mapping a review...

Feb 28 Pulling things together...Exam I Review

March 2 Exam I...

March 7 Aerial Photointerpretation – seeing more than you think...
March 9  Exploring Satellite Imagery - Introduction to remote sensing
Reading – Chapter 18…

March 14  Basic Image Processing… Introduction to IDRISI
Exercise:6 (205-ex6) Image Processing

March 16  Cluster Analysis… a deeper look…

March 28  Pulling things together… Review for Exam II

March 30  Exam II

April 4  Introduction to the GPS system…. Web Reading “GPS Guide for Beginners”…
Visit:  www.trimble.com/gps/index

April 6  Introduction to the Trimble GeoXM GPS Receiver…

April 11  GPS Field Trip – Exercise 7… digitize the bridges…

April 13  GPS Field Trip – Exercise 7 continued…

April 18  Reviewing Exercise 7

April 20  Bringing Maps, Imagery and GPS Together for fieldwork…
Field Checking Campus Landsat…Exercise 8…

April 25  Fieldwork for Exercise 8…

April 27  Fieldwork for Exercise 8…

May 2  Reviewing Exercise 8…

May 4  Pulling things together and Exam III Review…

May 9  Exam III