

NRM 435 GIS Analysis Spring 2016

Lectures: Tuesdays 9:45-11:15 ONEILL 359

GIS QUIZ Thursdays 9:45-11:15 ONEILL 359 (GIS Quiz Day!)

Lab: Tuesday 2-5PM or Wednesday 2:15-5:15PM ONEILL 359

Objectives:

- To teach you GIS analysis concepts independent of GIS software .
- To apply conceptual tools using ArcGIS software.
- To maximize hands-on experience in using GIS to solve spatial problems.
- To be paper-free..all readings and quizzes will be by email .

Instructors:

Dave Verbyla, Professor,
Dept. of Forest Sciences, ONeill Bldg 368
Email: dverbyla@alaska.edu

Office Hours: Tues,Weds 1-2pm or by Email appointment

Teaching Assistant: Julie Cislo email: jacislo@alaska.edu

Disability Services: We will work with the Office of Disabilities Services (203 WHIT, 474-7043) to provide reasonable accommodation to to any student with a disability.

Please inform us the first week of class if you have a disability that we should be aware of.

Grading will be based on 500 total possible points from

- **Fifteen GIS quizzes (every Thursday) (@ 20 pts each) = 300 points**
- **Ten blackboard assignments (@20 pts each) = 200 points (<https://classes.uaf.edu>)**
 1. **Tables Analysis Quiz due 5pm Monday 25-Jan-2016**
 2. **Points Analysis Quiz due 5pm Monday 1-Feb-2016**
 3. **Lines Analysis Quiz due 5pm Monday 8-Feb-2016**
 4. **Linear Referencing Quiz due 5pm Monday 15-Feb-2016**

5. Network Analysis Quiz due 5pm Monday 22-Feb-2016
6. Polygons Analysis Quiz due 5pm Monday 29-Feb-2016
7. Temporal Analysis Quiz due 5pm Monday 21-March-2016
8. Raster Analysis Quiz due 5pm Monday 4-April-2016
9. Elevation Analysis Quiz due 5pm Monday 11-April-2016
10. 3D Analysis Quiz due 5pm Monday 25-April-2016

Late assignments will not be accepted.

Final Grade: Total Points:

A+: >474 A: 450-474 A-: 440-449

B+: 435-439 B: 425-434

C+: 400-419 C: 375-399 C-: 365-374

D 350- 364

F <350

[Course Overview \(Thurs 14-Jan-2016\)](#)

[ArcGIS10 Windows and Customization \(Thurs 14-Jan-2016\)](#)

Tuesday Lecture	Thursday Lecture/Quiz	Tues or Weds. Weekly Lab
19-Jan-2016: Point Analysis Tools	2015Points Quiz:	Point Analysis Lab
26-Jan-2016 More Point Analysis Tools	2016 Lightning Density By EcoRegion	Point Analysis2 Lab
2 Feb-2016: Line Analysis Tools	2016 Weed Location Near Alaska Highways	Line Analysis Lab
9-Feb-2016: Linear Referencing	2016 Linear Referencing Quiz: Moose Harvest Locations	Measured Lines Lab

16-Feb-2016: Network Analysis	2016 Network Quiz: Yukon River	Network Analysis Lab
23-Feb-2016 Polygon Analysis	2016 Polygon Quiz :Watershed Basins	Polygon Analysis Lab
1-March-2016 Adjacency and Overlap Analysis--see lab	Adjacency Quiz 2015	Adjacency and Overlap Analysis Lab
8-March-2016: Temporal Data in ArcGIS	Movement Quiz 2015	Animal Movement Lab
Spring Break	Spring Break	Spring Break
22-March-2016: Raster Analysis	Raster Analysis Quiz 2015	Raster Analysis Lab
29-March-2016: Optimal Paths	Optimal Path Quiz 2015	Optimal Path Lab
5-April-2016: Elevation Analysis	2015 LIDAR Elevation Quiz	LIDAR Elevation Lab
12-April-2016: Watershed Delineation	2015 Watershed Quiz	Watershed Delineation Lab
19-April-2016: 3-D Analysis	2015 3D Quiz	3-DAnalysis Lab
26-April-2016:: GIS Data Quality	Quiz 14: Polygon Class Accuracy Quiz 15: Raster Class Accuracy	GIS Quality Assessment Lab

Assessment	Both quizzes due by 5pm Wed 4-May-2016	
Course Evaluations	Email me: dlverbyla@alaska.edu	

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