

NRM 435 GIS Analysis Spring 2017

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 .
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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: Meg Inokuma email: minokuma@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 23-Jan-2017**
 2. **Points Analysis Quiz due 5pm Monday 30-Jan-2017**
 3. **Lines Analysis Quiz due 5pm Monday 6-Feb-2017**
 4. **Linear Referencing Quiz due 5pm Monday 13-Feb-2017**
 5. **Network Analysis Quiz due 5pm Monday 20-Feb-2017**
 6. **Polygons Analysis Quiz due 5pm Monday 27-Feb-2017**
 7. **Temporal Analysis Quiz due 5pm Monday 19-March-2017**
 8. **Raster Analysis Quiz due 5pm Monday 2-April-2017**
 9. **Elevation Analysis Quiz due 5pm Monday 9-April-2017**
 10. **3D Analysis Quiz due 5pm Monday 23-April-2017**

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 \(Tues 17-Jan-2017\)](#)

[ArcGIS10 Windows and Customization \(Tues 17-Jan-2017\)](#)

Tuesday Lecture	Thursday Lecture/Quiz	Tues or Weds. Weekly Lab
17-Jan-2017: Point Analysis Tools	2016 Points Quiz:	Point Analysis Lab
24-Jan-2017 More Point Analysis Tools	2016 Lightning Density By EcoRegion	Point Analysis2 Lab
31-Jan-2017: Line Analysis Tools	2016 Weed Location Near Alaska Highways	Line Analysis Lab
7-Feb-2017: Linear Referencing	2016 Linear Referencing Quiz: Moose Harvest Locations	Measured Lines Lab
14-Feb-2017: Network Analysis	2016 Network Quiz: Yukon River	Network Analysis Lab
21-Feb-2017 Polygon Analysis	2016 Polygon Quiz :Watershed Basins	Polygon Analysis Lab
28-Feb-2017 Adjacency and Overlap Analysis- -see lab	Adjacency Quiz 2016: Montegue Island Old Growth	Adjacency and Overlap Analysis Lab
6-March-2017: Temporal Data in ArcGIS	Temporal Quiz 2016: Wildfire Perimeters By Week of Year	Animal Movement Lab
Spring Break	Spring Break	Spring Break

21-March-2017: Raster Analysis	 Raster Analysis Quiz 2016	Raster Analysis Lab
28-March-2016: Optimal Paths Over Cost Raster	 Optimal Path Quiz 2016	Cost Path Lab
4-April-2017: Elevation Analysis	 2016 LIDAR Elevation Quiz	LIDAR Elevation Lab
11-April-2017: Watershed Delineation	 2016 Watershed Quiz	Watershed Delineation Lab
18-April-2017: 3-D Analysis	 2016 3D Quiz	3-DAnalysis Lab
25-April-2017:: GIS Data Quality Assessment Course Evaluations Online	 2016 Quiz 14: Point/Polygon Analysis 2016 Quiz 15: Raster Analysis Email me: dlverbyla@alaska.edu	GIS Quality Assessment Lab