

# **NRM F370 Introduction to Watershed Management**

Fall 2016  
3 Credits

**Instructor:** Norman R. Harris  
UAF Matanuska Experiment Farm  
1509 South Georgeson Drive  
Palmer, AK 99645

## **Contact Information**

Office Hours: 10:00 to 12:00 PM Mondays or by appointment. I maintain an open door policy. If I am in, I can usually talk.

E-mail: [nrharris@alaska.edu](mailto:nrharris@alaska.edu) O H D V H W a f s o n e x t 3 V V ' L Q W K H V X E M H  
line, so you do not get buried in my email!

Phone: (907) 746-9475 (Leave a message if I am not in and I will get back to you)

frustrating periods involved, please be patient. 7 H Q V K R U W 3 S R S W O T H X L ] ] H  
 10 points) will be given, unannounced during the term; two 1-hour exams will be given  
 during the term with a required 2-hour final exam at the end of the term. Course  
 materials will be transmitted using the Blackboard system (<http://classes.uaf.edu>) and  
 assignments will be turned in using email.

**Testing and grading:**

3 3 R S ' T X L ] ] H V	100 points
Two 1-hour exams	100 points (50 points each)
Final exam	200 points
Watershed Assessment Project	200 points
Class Participation	40 points

The instructor will award 40 points based on attendance and class participation. Your attendance at all lectures is expected and would be a great ego boost. So remember,

**AN INSTRUCTOR WITH AN INFLATED EGO IS AN EASY GRADER!!!**

Grading Scale:	Percentage (rounded to nearest integer)
A	100 ±90
B	89 ±80
C	79 ±70



Lab: 8:30 ±11:30 am, Friday, AHRB 183 (Fairbanks) and DDC (Palmer)

Laboratory	Date	Topic
1	Sept.9	<b>Project Initiation:</b> Watershed Assessment Team (WAT) section assignment <b>Develop Workflow and Data Requirements</b> <b>GIS Background</b>
2	Sept.16	<b>WAT Meeting:</b> Identify Watershed Problems, Develop Goals and Objectives <b>GIS Lab 1 ±Delineation of a Watershed Boundary</b> <b>Guest Lecture:</b> TBD
3	Sept.23	<b>WAT Meeting:</b> <b>GIS Lab 2 ±Extraction of Raster Layers using the Watershed Mask</b> <b>Guest Lecture:</b> Jeff Falke (UAF Assistant Professor School of Fisheries and Ocean Sciences)
4	Sept. 30	<b>WAT Meeting:</b> <b>GIS Lab 3 ±Extraction of Hydrology Data, Editing of Shapefiles, and Determining and Entering the Strahler Order</b> <b>Guest Lecture:</b> Mark Clark (Retired NRCS Soil Scientist)
5	Oct. 7	<b>WAT Meeting:</b> <b>GIS Lab 4 ±Terrain Analysis and Creation of Indices</b> <b>Guest Lecture:</b> Bill Collins (Alaska Dept. of Fish and Game Wildlife Biologist)
6	Oct. 14	<b>WAT Meeting:</b> <b>GIS Lab 5 ±Landform Mapping</b> <b>Guest Lecture:</b> Dot Helm (Retired UAF Vegetation Ecologist)
7	Oct. 21	<b>WAT Meeting:</b> <b>GIS Lab 6 ±Bringing Agency Data into GIS Database</b> <b>Guest Lecture:</b>