Wildland Watershed Management
REWM 4700
MWF 11:00 to 11:50
AG 1032

Instructor: Dr. Tom Thurow
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Office hours: Generally available anytime except between 1:00 to 3:00 on TTH. Feel free to stop in; or call or e-mail before hand to confirm a time if you want to make sure I will be in my office at the moment you stop by.

Objectives: Develop an understanding of the spectrum of fundamental aspects relevant to wildland watershed management.


Grading: Performance in the course will be evaluated as follows when determining the final grades:

$ Three 1-hour exams (100 points each) and two quizzes (10 points each).

EXAM SCHEDULE

Exam 1 Wednesday, February 16
Exam 2 Friday, March 25
Exam 3 Friday, April 29

COURSE GRADE

288 - 320 points  90%  A
256 - 287 points  80%  B
224 - 255 points  70%  C
192 - 223 points  60%  D
< 192 points      F

If you have a physical, learning, sensory or psychological disability and require accommodations, please let me know as soon as possible. You will need to register with, and provide documentation of your disability to University Disability Support Services (UDSS) in SEO, room 109 Knight Hall.
Outline/Readings for Wildland Watershed Management

Introduction to Watershed Management

$ Importance of Water Properties
$ Water Resource Characteristics
$ Rationale for Watersheds as a Useful Management Scale

Watershed Management Policy

$ History
$ Evolution and Current Status of Water Law

Precipitation

$ Factors Influencing Amount, Distribution, and Intensity
$ Drought
$ Snow Hydrology

Interception and Interception Loss

Infiltration

$ Influence of Soil Characteristics
$ Influence of Vegetation Characteristics
$ Land Management Considerations (e.g., grazing)

Runoff and Streamflow

Evaporation and Transpiration

Deep Drainage and Groundwater

Water Yield (management influences on altering runoff and/or deep drainage)

Surface Erosion

Gully Erosion and Soil Mass Movement

Desertification

Watershed Protection/Rehabilitation/Restoration Considerations

Water Quality (role of range and forest management influences)

Riparian and Wetland Considerations

Stream Channel Morphology and Stream Classification