

NRM 380 - SOILS AND THE ENVIRONMENT SYLLABUS

Fall 2024

Course outline: The course offers fundamental knowledge in soil sciences, which include soil taxonomy, soil physics, soil chemistry, and soil biology and biochemistry both in theory and in applications.

Students are expected to read, understand, and adhere to the academic honor code detailed in the [UAF Catalog](#). The University of Alaska is committed to providing equal access for students with disabilities. If you have a disability requiring special accommodations, please notify me during the first two weeks of class.

In order to save copying costs, these handouts and all lecture materials will be available through the UAF Blackboard site at <http://classes.uaf.edu>. If you cannot access these notes, please let me know.

Student outcome:

Upon completion of the class, students should:

Have a deep understanding the complexity of soil as a natural resource for food production and as an important component in natural ecosystem.

Understand soil physical properties, and laboratory methods to measure those properties.

Understand soil chemical properties and laboratory methods to measure those properties.

Understand soil biological properties and laboratory methods to measure those properties.

Have knowledge to differentiate a good soil management plan from improper ones.

Be able to use soil web survey to collect soil information and use learned soil knowledge to develop soil management plans for different land uses.

Be able to write an integrated soil technical report for a given area in US.

87 89.9%

Lecture, exam, and homework schedule

Date Lecture

