

GEOCHEMISTRY

Fall Semester 2020

Course content:

review of solubility, acid/base and electrochemical concepts; **aqueous geochemistry** and solid-water interactions with an emphasis on **groundwater**; chemical weathering; mineral thermodynamics and redox (Eh-pH) diagrams and their applications to **soil** and mineral stability and groundwater chemistry; modeling; **environmental** geochemistry; and isotopes applied to groundwaters.

Meeting Times:

Tuesdays and Thursdays

9:30 - 10:45 am

Stevens Hall 134

FOR INFORMATION CONTACT:

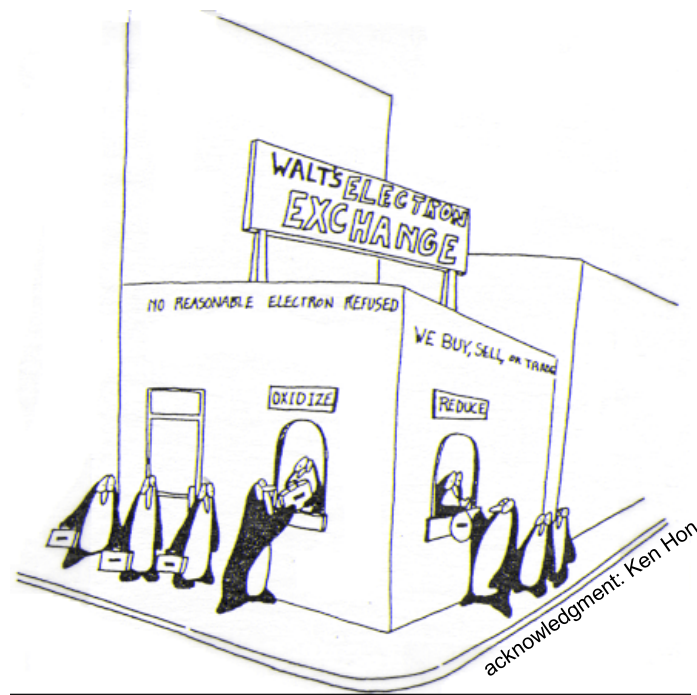
Instructor: B. Saini-Eidukat

Email: bernhardt.sainieiduk@ndsu.edu

Class Numbers:

Geol 428: 6169 628: 6172

Chem 428: 16312 628: 16313



Who should take this course:

anyone interested in **environmental science** or natural **water chemistry**
geology juniors or seniors interested in ground water or environmental geology;
soil science seniors and graduate students;
NRM juniors, seniors and graduate students interested in environmental topics;
chemistry students interested in environmental chemistry;
civil engineering seniors or graduate students with a sanitary engineering emphasis;
biology seniors/ grad students interested in environmental science careers;
ECS graduate students studying water related topics.