

INORGANIC GEOCHEMISTRY
GCH 5405 - Section 001
Fall 2004

Contact: Moira.Ridley@ttu.edu

Office: 324 Science Building

Office hours: Tuesday 1:15 – 2:30 pm

Wednesday 1:30 – 2:30 pm

Text: Principles and Applications of Geochemistry, 2nd Edition, G. Faure

Thermodynamics of Natural Systems, G. M. Anderson

Supplemental reading: Geochemistry, 2nd Ed., A.H. Brownlow

Grading: Grading will be based equally on your performance in exams and problem sets. There will be two *take-home* exams, and near-weekly problem sets (typically 10 to 12).

Mid semester exam	25%
Final exam – comprehensive	25%
Problem sets	50%

Important Dates:

Tentative dates for the mid-semester exam

October 20 Mid-semester exam handed out

October 29 Mid-semester exam due by **Noon**

December 6 Final exam handed out

December 8 Last day of classes

December 13 Final exam due by **2:00 pm - No Exceptions**

Course Outline:

Introduction

Atomic structure / Periodic Table / Bonding and crystal chemistry

Thermodynamics

Aqueous geochemistry

Mineral Stability - Activity diagrams

Redox chemistry

Radiogenic isotope geochemistry / geochronology

Stable isotope geochemistry

Any student who, because of a disability may require special arrangements in order to meet course requirements should contact the instructor as soon as possible to make any necessary accommodations. All policies presented in *The Bulletin of Texas Tech* will be adhered to strictly.