Contact: Moira.Ridley@ttu.edu
Office: 324 Science Building
Office hours: Tuesday 1:15 – 2:30 pm
Wednesday 1:30 – 2:30 pm

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).

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Mid semester exam</td>
<td>25%</td>
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<tr>
<td>Final exam – comprehensive</td>
<td>25%</td>
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<tr>
<td>Problem sets</td>
<td>50%</td>
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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.