

ESS 221 MINERALS AND ROCKS - FALL 2015

Lectures: Tuesday 12:10-1pm and Wednesday: 11:10 am – 12 pm (ESC B142).

Labs: Mon 2-5 pm, Tues 9-12, Thurs 9-12 (ESC Room 1067).

Instructor: Grant Henderson (henders@es.utoronto.ca) Office: ESC 2121.

Office Hours: E-mail me for a time.

Course Website: Blackboard.

Required Text *Manual of Mineral Science* (23rd ed.) by Klein and Dutrow (~\$200) or any previous edition of this text by Hurlburt and Klein. Another comparable text is *Mineralogy and Optical Mineralogy* by Dyar, Gunter and Tasa (~\$60) available for order from (WWW.minsocam.org)

Recommended *An Introduction to the Rock-Forming Minerals* by Deer, Howie, and Zussman

(Both available at **Earth Sciences Library** Short Term Loan Desk (2 hr. loan))

Other Useful Texts

Mineralogy by D. Perkins

Mineralogy: Concepts and Principles by T. Zoltai and J.H. Stout

Evaluation

Lab Exam I (15 %) During Week 4 Oct 5-9.

Lab Exam II (20 %) During Week 12/13 Nov 30-Dec 9.

Mid-Term Exam (15 %) Oct 27

Final Exam (35%) During December Exam Period (2 hours)

Lab Marks (15%)

- Lab participation (5%. 3 labs missed and mark is 0)
- Lab Quizzes (5%)
- Distinguishing properties sheets (5%)

About the course

This course provides an overview of the structural, chemical and optical properties of minerals. Laboratories will focus on hand specimen identification of minerals (6 lab periods) and optical identification using petrographic microscopes (4 labs). There are two practical lab exams. There is no field trip.

Laboratories (40%)

You will need a 10x hand lens available for ~\$15 at the front desk in the office. There will be two laboratory exams that will take approximately 1.5 hours each: Lab exam I (Week 4, Oct 4-9), Lab exam II (Week 12, Nov 20-Dec 7). Missed lab exams require proper medical documentation to warrant a make-up exam (must see Lynn Slotkin in ESC 1066 within 1 week of the missed test).

Mid-Term Exam (15%)

The mid-term exam will be 1 hour long. It will cover material taught in lectures up to and including October 27, and will focus on lecture material.

Final Exam (35%)

The final exam will be 2 hours long. It will be cumulative, focusing on material covered in lectures but some questions will have a component related to the laboratories. Past exams are available through the U of T Library web page.

Lab Participation (5%)

This mark reflects your enthusiasm and contributions to your lab group.

Missed Tests or Lab Exercises and Late Hand-Ins

Missed test or lab exercise and late hand-ins will only be excused for cases in which the absence was entirely beyond your control (e.g., medical reasons, personal affliction), and only if the proper documentation is submitted. You must submit **within one week of the missed test during regular office hours (Monday to Friday, 9 am - 5 pm):**

For medical reasons, BOTH:

1. A complete **official U of T medical certificate** (the form is in your Timetable Booklet, or you can get it from your College Registrar). Only this form will be accepted.
2. A detailed letter from you requesting consideration for the missed test. The letter must include the following information: Your name, student number, e-mail address, course name and number, the date of the test, when you started to feel sick, and how it prevented you from studying and writing the test, when you returned to school. **Both** documents **must** be submitted to Lynn Slotkin, Student Affairs Officer, Geology Department, 22 Russell Street, ESC Room 1066 during regular office hours.

For non-medical reasons,

1. A detailed letter from you requesting consideration for the missed test. The letter must include the following information: Your name, student number, e-mail address, course name and

number, the date of the test, and the reason why you were unable to attend. Reasons involving personal commitments such as vacation travel arrangements are not considered legitimate grounds for missing tests. The letter **must** be submitted to Lynn Slotkin, Student Affairs Officer, Geology Department, 22 Russell Street, ESC Room 1066 during regular office hours.

Lynn Slotkin's phone number is (416) 978-1240, and her e-mail is slotkin@geology.utoronto.ca.

If your petition is successful, you will be informed by e-mail. The rest of the course and the examination will be re-weighted. There will be no make-up test.

Academic Misconduct

Academic misconduct takes a number of forms. Every student should read the code of behaviour on academic matters <http://www.artsandscience.utoronto.ca/ofr/calendar/rules.htm>.

The instructor reserves the right to strongly penalize those people engaged in academic misconduct under the University's rules and regulations.

1) Plagiarism and concocted references

Plagiarism is the most common offence. Plagiarism includes failing to cite sources or to cite them accurately AND/OR failing to place within quotation marks material taken verbatim from a source, regardless of whether the material is acknowledged with a citation. **Failure to use quotation marks is an academic offence.** The inclusion of false, misleading, or concocted references is an offence. Students should see "How not to Plagiarize" by M. Procter (Coordinator, Writing Support, U of T www.utoronto.ca/writing). Students can obtain additional information at the writing website <http://www.utoronto.ca/writing/>.

2) Purchased assignments

Pre- and custom-written assignments (commonly essays) are readily available for purchase over the Internet or through essay-writing services. U of T considers the purchase of assignments to be one of the most serious breaches of academic integrity.

3) Re-submitting work for which credit was previously obtained

It is an offence for a student to submit an assignment for which credit has already been obtained or is being obtained UNLESS s/he has permission from the instructors involved.

4) Altered work re-submitted for credit

Students who, in an effort to obtain a higher grade, submit work for remarking which has been "improved" with the addition of material responding to the marker's comments or answers subsequently posted online or discussed in class.

5) Collaboration (providing/receiving unauthorized aid; plagiarism)

Collaboration occurs when students work inappropriately closely with the result that the work they submit is unacceptably similar.

6) Tests and examinations (providing/receiving unauthorized aid)

Examination rules:

<http://www.artsandscience.utoronto.ca/ofr/calendar/rules.htm#exams>

7) Altered or falsified documentation

One of the more serious offences is the falsification of documentation required to support missed assignments/exams.