

ESS 221 Minerals and Rocks - Fall 2016

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

Labs Mon 2-5 pm, Tuesday 9-12pm and Thursday 9-12pm (ESC Room 1067)

Instructor Kim Tait (ktait@rom.on.ca) Office: Rm. ESC 4101

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 (10 %) During Week 4 Oct 3-7.

Lab Exam II (15 %) During Week 7 Oct 24-28.

Optical Lab Exam (15%) During Week 12, Nov 28-Dec 2.

Mid-Term Exam (15 %) Oct 18.

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

Lab Marks (10%)

- Lab participation (5%. 3 labs missed and mark is 0)
- Lab Quizzes (5%: These will be random labs)

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 (50%)

You will need a 10x hand lens available for ~\$15 at the front desk in the office. There will be three laboratory exams that will take approximately 1.5 hours each: Lab exam I (Week 4, Oct 3-7), Lab exam II (Week 7, Oct 24-28) and an Optical Lab exam (Week 12, Nov

28-Dec 2). Missed lab exams require proper medical documentation to warrant a make-up exam (must see Scott Moore 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 19, 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.

Policy on Missed Tests or Lab Exercises and Missed Assignment Deadlines

1. There are no makeup exams for mid-term examinations.
2. Late submissions will not be marked and default to grade of 0. The deciding date is the date stamp when the assignment is received by the front desk.

Missed tests, missed lab exercises and missed assignment deadlines will only be excused for cases in which the absence was entirely beyond the student's control (e.g., medical reasons, personal affliction), and only if the proper documentation is submitted.

If your petition is accepted, you will be pro-rated on the missed assignment/test (i.e. you will be given a mark which is equal to your average course mark).

To request that your test/assignment is being pro-rated, please register your petition by getting the link on blackboard.

We will consider all requests which are received within 5 business days of the missed assignment (the University is open during Reading Week).

Note, that reasons involving personal commitments such as vacation travel arrangements are not considered legitimate grounds for missing tests and that we reserve to the right request further documentation (e.g., a doctor's note etc).

If your petition is successful, you (and your instructor) will be informed by e-mail.

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.