EARTH SCI 3K03  Igneous & Metamorphic Petrology

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This course will present the essential elements of igneous and metamorphic petrology, which Earth Scientists should know in order to have a well-rounded knowledge about hard-rock Geology

Classes
Two classes per week will be lectures, largely focussed on petrogenesis. There will be about ten labs, each lasting a week. (One or two labs will be double, lasting two weeks). We will focus on comparative studies of related rocks from important rock suites. We will apply the principles of Optical Mineralogy learned in EARTH SCI 2K03.

Text-books
You will need to buy the courseware, which contains most of the supplementary diagrams.

My main textbook sources are:
Klein, C., Earth Materials 2nd Edition: Introduction to Mineralogy and Petrology
Hess, P.C., Origins of igneous rocks
Yardley, B. Intro to metamorphic petrology
None of these are required to purchase, but are informative sources on the subject material.

I will be using Nesse in the labs. You will need this or some other optical mineralogy handbook of your own choice.

Course grading
The marks breakdown will be:
30% for lab reports handed in each week (reduced credit for late work)
20% for an open-book lab exam held near the end of term
10% for a mid term assignment
40% for a closed book written exam

Ethical Standards
Students are expected to display high standards of ethical behaviour. Consultation between one another is welcomed, but lab write-ups are expected to be original, individual work.

Academic dishonesty consists of misrepresentation by deception or by other fraudulent means and can result in serious consequences, e.g. the grade of zero on an assignment, loss of credit with a notation on the transcript (notation reads: "Grade of F assigned for academic dishonesty"), and/or suspension or expulsion from the university.

It is your responsibility to understand what constitutes academic dishonesty. For information on the various kinds of academic dishonesty please refer to the Academic Integrity Policy, specifically Appendix 3, located at the following site:
http://www.mcmaster.ca/senate/academic/ac_integrity.htm

The following illustrates only three forms of academic dishonesty:
Plagiarism, e.g. the submission of work that is not one's own or for which other credit has been obtained; Improper collaboration in group work; Copying or using unauthorized aids tests and examinations.

The University reserves the right to change any aspect of this course outline.