



UNIVERSITY OF CALGARY
FACULTY OF SCIENCE
DEPARTMENT OF GEOSCIENCE
COURSE OUTLINE
WINTER 2015

1. **Course:** Geology 443, Igneous & Metamorphic Petrology

Lecture Sections:

L01: MoWeFr, 10:00-10:50, MFH 241

Instructor, Dr. R. Nair, Office ES 152, Tel. No. 403-220-4823, e-mail address: rnair@ucalgary.ca,

Office Hours: by appointment

Instructor, Dr. D. Pattison, Office ES 154, Tel. No. 403-220-3263, e-mail address, pattison@ucalgary.ca,

Office Hours: open door policy, or by appointment

Course website or Desire 2 Learn (D2L) <https://d2l.ucalgary.ca/d2l/home/84085>

Geoscience Department ES 118, 403-220-5841, geoscience.ucalgary.ca, geoscience@ucalgary.ca

2. **Prerequisites:** Geology 323, 337 and 313 or 423. See section 3.5.C in the Faculty of Science section of the online Calendar (www.ucalgary.ca/pubs/calendar/current/sc-3-5.html)

3. **Grading:** The University policy on grading and related matters is described sections F.1 and F.2 of the online University Calendar. In determining the overall grade in the course the following weights will be used:

Part 1: Igneous

Lab Assignments (5) 5%

Tutorials (4) 2%

Lab exam 23%

Lec exam (Mar 7) 20%

Total (Igneous) 50%

Part 2: Metamorphic

Lab Assignments (5) 5%

Tutorials (4) 2%

Lab exam 23%

Lec exam (Registrar) 20%

Total (Metamorphic) 50%

Each piece of work (laboratory report, tutorial, examination) submitted by the student will be assigned a percentage score. The student's average percentage score for the various components listed above will be combined with the indicated weights to produce an overall percentage for the course. The final letter grade for the course will be assigned consultatively by Drs. Nair and Pattison at the end of the course, based on the total numerical aggregate (out of 100%) of the above components. **To pass the course, your aggregate percentage score on the exams (Igneous and Metamorphic combined) must be greater than 50%.**

The two parts of the course are formally separate (although concepts and skills learned from Part 1 of the course will be used in Part 2 of the course). The two lab-lec exams will involve examination of minerals, rocks and thin sections. They will be open book exams. The two lec exams will consist of a combination of short and long-answer questions. No aids will be allowed.

Typical letter grade conversions are listed below. The Instructors may shift the numerical cut-off levels down, based on how hard the TAs mark, how hard the exams are, etc., but they will not be shifted up.

Letter Grade	Percent	Letter Grade	Percent
A+	90-100	C+	66-68.9
A	82-89.9	C	62-65.9
A-	79-81.9	C-	59-61.9
B+	76-78.9	D+	56-58.9
B	72-75.9	D	50-55.9
B-	69-71.9	F	0-49.9

4. **Missed Components of Term Work:** The regulations of the Faculty of Science pertaining to this matter are found in the Faculty of Science area of the Calendar in [Section 3.6](#). It is the student's responsibility to familiarize himself/herself with these regulations. See also [Section E.6](#) of the University Calendar

5. **Scheduled out-of-class activities:** Dates and times of approved class activities held outside of class hours. Lecture Mid-term Exam Saturday March 7 10 am-12 pm (MFH 160, 162, 164).

REGULARLY SCHEDULED CLASSES HAVE PRECEDENCE OVER ANY OUT-OF-CLASS-TIME-ACTIVITY. If you have a clash with this out-of-class-time-activity, please inform your instructor as soon as possible so that alternative arrangements may be made for you.

6. **Course Materials:** John D. Winter. *Principles of Igneous and Metamorphic Petrology.* (Second Edition) Prentice Hall, Inc., Upper Saddle River, New Jersey. 702 p.

Instructors will regularly use material from outside the textbook specified above to enhance student understanding.

7. **Examination Policy:** The two lab exams will involve examination of minerals, rocks and thin sections. They will be closed book exams with only some mineralogy references permitted. The two lecture exams will consist of a combination of short and long-answer questions. No aids will be allowed other than a calculator.

Students should also read the Calendar, [Section G](#), on Examinations.

8. **Writing across the curriculum statement:** In this course, the quality of the student's writing in laboratory reports will be a factor in the evaluation of those reports. See also [Section E.2](#) of the University Calendar.

9. **OTHER IMPORTANT INFORMATION FOR STUDENTS:**

- (a) **Misconduct:** Academic misconduct (cheating, plagiarism, or any other form) is a very serious offence that will be dealt with rigorously in all cases. A single offence may lead to disciplinary probation or suspension or expulsion. The Faculty of Science follows a zero tolerance policy regarding dishonesty. Please read the sections of the University Calendar under [Section K](#). Student Misconduct to inform yourself of definitions, processes and penalties.

- (b) **Assembly Points:** In case of emergency during class time, be sure to FAMILIARIZE YOURSELF with the information on [assembly points](#).

- (c) **Academic Accommodation Policy:** Students with documentable disabilities are referred to the following links: Students with Disabilities: <http://www.ucalgary.ca/pubs/calendar/current/b-1.html> [B.1](#) and Student Accessibility Services: <http://www.ucalgary.ca/access/>.

- (d) **Safewalk:** Campus Security will escort individuals day or night (<http://www.ucalgary.ca/security/safewalk/>). Call 220-5333 for assistance. Use any campus phone, emergency phone or the yellow phones located at most parking lot pay booths.

- (e) **Freedom of Information and Privacy:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIP). As one consequence, students should identify themselves on all written work by placing their name on the front page and their ID number on each subsequent page. For more information see also <http://www.ucalgary.ca/secretariat/privacy>.

- (f) **Student Union Information:** VP Academic Phone: 220-3911 Email: suvpaca@ucalgary.ca.
SU Faculty Rep. Phone: 220-3913 Email: sciencerep@su.ucalgary.ca; [Student Ombudsman](#)

- (g) **Internet and Electronic Device Information:** You can assume that in all classes that you attend, your cell phone should be turned off unless instructed otherwise. Also, communication with other individuals, via laptop computers, Blackberries or other devices connectable to the Internet is not allowed in class time unless specifically permitted by the instructor. If you violate this policy you may be asked to leave the classroom. Repeated abuse may result in a charge of misconduct.

- (h) **U.S.R.I.:** At the University of Calgary, feedback provided by students through the Universal Student Ratings of Instruction (USRI) survey provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses (www.ucalgary.ca/usri). Your responses make a difference – please participate in USRI Surveys.

Department Approval: Original Signed

Date: January 6, 2015

Associate Dean's Approval for
out of regular class-time activity: Original Signed

Date: January 8, 2015