



UNIVERSITY OF CALGARY
FACULTY OF SCIENCE
DEPARTMENT OF GEOSCIENCE
COURSE OUTLINE
WINTER 2017

1. **Course:** Geology 523, Advanced Mineralogy

Lecture Sections:

L01: TuTh, 09:30-10:45, SA 125

For a listing of all lab sections corresponding with this course, please see the following link:

http://geoscience.ucalgary.ca/geoscience_info/courses/w17

Instructor, Dr. S. Antao, Office ES 532, Tel. No. 403-220-3083, e-mail address, antao@ucalgary.ca,
Office Hours: TuTh 11-12pm

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

2. **Prerequisites:** Geology 313 or 423 and completion of at least 78 units (13 full-course equivalents)

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:

| | |
|-----------------------------------|-----|
| Lab. Assignments | 40% |
| Midterm (March 2) | 10% |
| Project (report-30%, seminar-20%) | 50% |

Each piece of work (assignment, laboratory report, midterm test or final 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, which will be used to determine the course letter grade.

| Letter Grade | Percent | Letter Grade | Percent |
|--------------|---------|--------------|---------|
| A+ | 95-100 | C+ | 64-67 |
| A | 89-94 | C | 60-63 |
| A- | 84-88 | C- | 56-59 |
| B+ | 78-83 | D+ | 50-55 |
| B | 73-77 | D | 46-49 |
| B- | 68-72 | F | 0-45 |

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. **Course Materials:** The course blackboard site contains all of the handouts for labs, and lectures, as well as other resource material that you might find useful. Students are advised that reading the course blackboard page is not a substitute for attendance at lectures. The lectures provide an interactive environment that embellishes on, and provides a context for, the material in the textbook, whereas blackboard is a live site that allows for tailoring and updating of the course material during the term. A few short movies on Mineralogy shown in class will not be posted on blackboard because of copyright issues.

Recommended reference books (available in the Gallagher Library):

Klein, C. and Dutrow, B. (2007) Manual of Mineral Science (23rd edition). John Wiley and Sons, Inc., New York, NY.

Klein, C. and Hurlbut, C.S. (1998) Manual of Mineralogy (revised 21st edition). John Wiley and Sons, Inc., New York, NY.

Cullity, B.D. (1978) Elements of X-ray Diffraction. Addison-Wesley Publishing Company, Inc., USA.

Parise, J.B. (2006) Introduction to Neutron Properties and Applications. In Neutron Scattering in Earth Sciences (H-R Wenk, ed.). Reviews in Mineralogy and Geochemistry, 63, 1-25.

6. Examination Policy: No electronic or written aids (e.g. cell phones, tablets, computers, PDAs, notes, textbooks) will be allowed during writing of any exams. Non-programmable calculators will be permitted to answer quantitative questions on exams, if applicable, and permission to do this will be clearly indicated on the examination paper. Students should also read the Calendar, [Section G](#), on Examinations.

7. Writing across the curriculum statement: In this course, the quality of the student's writing in the lecture exam will be a factor in determining the grade for the exams. See also [Section E.2](#) of the University Calendar.

8. OTHER IMPORTANT INFORMATION FOR STUDENTS:

(a) 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> 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 (FOIPP). 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: 403 220-3911 Email: suvpaca@ucalgary.ca
SU Faculty Rep. Phone: 403-220-3913, Email: science1@su.ucalgary.ca, science2@su.ucalgary.ca and science3@su.ucalgary.ca;
Student Ombuds Office: 403-220-6420 Email: ombuds@ucalgary.ca; <http://ucalgary.ca/provost/students/ombuds>

(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: November 28, 2016

Assistant Dean's Approval for

Alternate final examination arrangements: ORIGINAL SIGNED

Date: December 1, 2016