

UNIVERSITY OF CALGARY
DEPARTMENT OF GEOSCIENCE
COURSE OUTLINE

1. **Course:** GEOLOGY 503, Aqueous Geochemistry

Lecture Sections:

L01: TuTh, 15:30-16:45, ENE 243; Instructor: Dr. Bernhard Mayer Office: ES 506A Tel. No. 220 5389 e-mail address: bmayer@ucalgary.ca, Office Hours: Wednesday: 15:00-15:45

The course website can be found on blackboard (<http://blackboard.ucalgary.ca>).

Departmental Office: ES118, 403-220-5184, geosci@ucalgary.ca

2. **Prerequisites:** Geology 323 (see <http://www.ucalgary.ca/pubs/calendar/current/geology.html#9734>)

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 (10)	25%
Midterm test	30% (October 22, 2013)
Final Examination	45% (To be scheduled by the Registrar)

A passing grade on the final exam is necessary to pass the course as a whole.

Each piece of work (assignment, laboratory report, midterm test of 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, bearing in mind that an F grade will result if the student does not pass the Final Examination. The conversion between course percentage and letter grade is given below.

Letter Grade	Percent	Letter Grade	Percent
A+	95-100	C+	65-69
A	90-94	C	60-64
A-	85-89	C-	55-59
B+	80-84	D	50-54
B	75-79	F	0-49
B-	70-74		

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:** None.

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:** "The course content is based on the following recommended textbook: Appelo, C.A.J., and Postma, D., *Geochemistry, groundwater and pollution* (2nd ed., 2005, available at UofC bookstore; Gallagher Library: TD420.A67 2005)

Other useful reference books:

- Langmuir, D., *Aqueous environmental geochemistry*, Prentice Hall, 1997 (GB855.L36 1997).
- Stumm, W., and Morgan, J., *Aquatic chemistry* (3rd ed.), Wiley, 1996 (GB697.S78 1996)
- Drever, J.I., *The geochemistry of natural waters* (2nd ed.), Prentice Hall, 1988 (GB855.D73 1988)

The course blackboard site contains the lecture material and the lab assignments, 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.

7. **Examination Policy:** Calculators and rulers are permitted, but no textbooks or course notes. Students should also read the Calendar, [Section G](#), on Examinations.
8. **Approved Mandatory and Optional Course Supplemental Fees:** None
9. **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.
10. **Human studies statement:** Students in the course are not expected to participate as subjects or researchers. See also [Section E.5](#) of the University Calendar.

11. 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: [Calendar entry on students with disabilities](#) and [Student Accessibility Services](#).
- (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: 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.

The following signature lines should be added to the course outline as appropriate

Original Signed