

# UNIVERSITY OF CALGARY FACULTY OF SCIENCE DEPARTMENT OF GEOSCIENCE COURSE OUTLINE

1. Course: GLGY 403, Aqueous Geochemistry -- Winter 2018

Lecture 01: (TR, 15:30-16:45 in AD142)

<b>Instructor Name</b>	Email	Phone	Office	Hours
Benjamin Michael Tutolo	benjamin.tutolo@ucalgary.ca	403 210 7758	Earth Science 550	Tu,Th 16:45-17:30 or by appointment

Course Site:

D2L: GLGY 403 L01-(Winter 2018)-Aqueous Geochemistry

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

Students must use their U of C account for all course correspondence.

## 2. Prerequisites:

See section 3.5.C in the Faculty of Science section of the online Calendar.

Geology 323.

Credit for both Geology 403 and 503 will not be allowed.

Geology 323. 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 in <u>F.1</u> and <u>F.2</u> of the online University Calendar. In determining the overall grade in the course the following weights will be used:

Component(s)	Weighting %	
Midterm Exam	25	
Final Exam	25	
Term Paper	20	
Lab Assignments	20	
In-class activities	10	

Each of the above components will be given a letter grade using the official university grading system. The final grade will be calculated using the grade point equivalents weighted by the percentages given above and then converted to a final letter grade using the official university grade point equivalents.

## 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 <u>Section 3.6</u>. It is the student's responsibility to familiarize himself/herself with these regulations. See also <u>Section E.3</u> of the University Calendar

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### 5. Scheduled out-of-class activities:

There are no out-of-class activities scheduled for this course.

REGULARLY SCHEDULED CLASSES HAVE PRECEDENCE OVER ANY OUT-OF-CLASS-TIME-

**ACTIVITY.** If you have a conflict with the out-of-class-time-activity, please contact your course coordinator/instructor no later than **14 days prior** to the date of the out-of-class activity so that alternative arrangements may be made.

**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:

## Required Textbook(s):

Brezonik and Arnold, Water Chemistry: An Introduction to the Chemistry of Natural and Engineered Aquatic Systems, Oxford University Press

An online version of the Brezonik and Arnold textbook is available through the U of C libraries. Other useful textbooks include:

- -Appelo, C.A.J., and Postma, D., *Geochemistry, groundwater and pollution* (2nd ed., 2005, UofC bookstore; Gallagher Library: TD420.A67 2005)
- 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)

# 7. Examination Policy:

Examinations are closed-book. Reference materials are not permitted and any required data or equations will be explicitly given on examinations. Calculators are allowed, but no devices with internet-connectivity will be permitted. Students should also read the Calendar, <u>Section G</u>, on Examinations.

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## 8. Approved Mandatory and Optional Course Supplemental Fees:

There are no mandatory or optional course supplemental fees for this course

## 9. Writing across the Curriculum Statement:

For all components of the course, in any written work, the quality of the student's writing (language, spelling, grammar, presentation etc.) can be a factor in the evaluation of those reports. See also Section  $\underline{\text{E.2}}$  of the University Calendar.

Effective communication of key scientific ideas is a central concept in this course, as emphasized by the term paper requirement. Clarity of discussion and argument will be assessed as part of the grade in written components such as the term paper, lab reports, and long-answer questions for exams. See also <u>Section E.2</u> of the University Calendar.

#### 10. Human studies statement:

Students will not participate as subjects or researchers in human studies.

# 11. Reappraisal of Grades:

A student wishing a reappraisal, should first attempt to review the graded work with the Course coordinator/instructor or department offering the course. Students with sufficient academic grounds may request a reappraisal. Non-academic grounds are not relevant for grade reappraisals. Students should be aware that the grade being reappraised may be raised, lowered or remain the same. See Section 1.3 of the University Calendar.

- 1. **Term Work:** The student should present their rationale as effectively and as fully as possible to the Course coordinator/instructor within **15 days** of either being notified about the mark, or of the item's return to the class. If the student is not satisfied with the outcome, the student shall immediately submit the Reappraisal of Graded Term work form to the department in which the course is offered. The department will arrange for a re-assessment of the work if, and only if, the student has sufficient academic grounds. See sections <u>I.1</u> and <u>I.2</u> of the University Calendar
- 2. Final Exam: The student shall submit the request to Enrolment Services. See Section 1.3 of the University

Calendar.

## 12. 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 <u>Section K</u>. Student Misconduct to inform yourself of definitions, processes and penalties. Examples of academic misconduct may include: submitting or presenting work as if it were the student's own work when it is not; submitting or presenting work in one course which has also been submitted in another course without the instructor's permission; collaborating in whole or in part without prior agreement of the instructor; borrowing experimental values from others without the instructor's approval; falsification/ fabrication of experimental values in a report. **These are only examples**.
- 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 needing an accommodation because of a disability or medical condition should contact Student Accessibility Services in accordance with the procedure for accommodations for students with disabilities available at <u>procedure-for-accomodations-for-students-with-disabilities 0.pdf.</u>

Students needing an accommodation in relation to their coursework or to fulfill requirements for a graduate degree, based on a protected ground other than disability, should communicate this need, preferably in writing, to the Sr. Instructor of the Department of Geoscience, Dr. Rudi Meyer by email rmeyer@ucalgary.ca or phone 403-210-7848. Religious accommodation requests relating to class, test or exam scheduling or absences must be submitted no later than 14 days prior to the date in question: <a href="http://www.ucalgary.ca/pubs/calendar/current/e-4.html">http://www.ucalgary.ca/pubs/calendar/current/e-4.html</a>

- d. Safewalk: Campus Security will escort individuals day or night (<u>www.ucalgary.ca/security/safewalk/</u>). Call 403-220-5333 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). 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 <a href="https://www.ucalgary.ca/legalservices/foip">www.ucalgary.ca/legalservices/foip</a>.
- f. **Student Union Information:** <u>VP Academic</u>, Phone: <u>403-220-3911</u> Email: <u>suvpaca@ucalgary.ca</u>. SU Faculty Rep., Phone: <u>403-220-3913</u> Email: <u>sciencerep@su.ucalgary.ca</u>. Student Ombudsman, Email: <u>suvpaca@ucalgary.ca</u>.
- g. **Internet and Electronic Device Information:** Unless instructed otherwise, cell phones should be turned off during class. All communication with other individuals via laptop, tablet, smart phone or other device is prohibited during class unless specifically permitted by the instructor. Students that violate this policy may be asked to leave the classroom. Repeated violations may result in a charge of misconduct.
- h. **Surveys:** At the University of Calgary, feedback through the Universal Student Ratings of Instruction (<u>USRI</u>) survey and the Faculty of Science Teaching Feedback form provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses. Your responses make a difference please participate in these surveys.
- i. **SU Wellness Center:** The Students Union Wellness Centre provides health and wellness support for students including information and counselling on physical health, mental health and nutrition. For more information, see <a href="https://www.ucalgary.ca/wellnesscentre">www.ucalgary.ca/wellnesscentre</a> or call <a href="https://www.ucalgary.ca/wellnesscentre">403-210-9355</a>.

**Department Approval:** Electronically Approved **Date:** 2017-12-07 19:02