

UNIVERSITY OF CALGARY
DEPARTMENT OF GEOSCIENCE
COURSE OUTLINE

1. **Course:** GLGY 401, Physical Hydrogeology

Instructor: Dr. Edwin Cey, ES220 403-220-8393, ecey@ucalgary.ca, Office Hours: Monday, 14:00 – 16:30 or by appointment.

Timetable:

Session	Time	Days	Location
L01	10:00 – 10:50	MoWeFr	ICT 121
B01	8:00-9:50	Th	ES 147
B02	10:00-11:50	Th	ES 147
B03	12:00-13:50	Th	ES 147
B04	14:00-15:50	Th	ES 147
B05	16:00-17:50	Th	ES 147
B06	18:00-19:50	Th	ES 147

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

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

2. **Prerequisites:** GLGY 201 or GLGY 471; PHYS 223 or 259; and MATH 253 or 283 or AMAT 219.

(see <http://www.ucalgary.ca/pubs/calendar/current/geology.html#9723>)

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:

Laboratories (9)	25%
Homework Assignments (4)	15%
Top Hat Participation & Performance	10%
Midterm test	20% (Tentatively Oct. 25)
Final Examination	30% (To be scheduled by the Registrar)

Individual elements of the course (i.e. labs, assignments, exams) will be assigned a percentage score. Final percentage grades for the overall course will be calculated based on the grade weighting scheme indicated above, and will be converted to letter grades as follows:

Letter Grade	Percent	Letter Grade	Percent
A+	95-100	C+	65-69
A	90-94	C	60-64
A-	85-89	C-	56-59
B+	80-84	D+	53-55
B	75-79	D	50-52
B-	70-74	F	0-49

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

All assigned homework and laboratories should be submitted when due. **Only one late submission will be permitted per term, and will be subject to a late penalty of 10% per day (including weekends and holidays).** Arrangements for submitting late assignments or laboratories must be made with either the TA or the instructor. Any student who fails to submit an assignment or similar required piece of work for legitimate reasons (e.g., illness) must discuss an alternative course of action with the instructor.

5. **Scheduled out-of-class activities:** There will be no mandatory activities held outside of class hours. Optional tutorial sessions may be held prior to the final exam, but these discussed in class prior to the examination period.

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:** There is no required textbook, although the course will borrow significantly from the textbooks listed below and select portions of Fetter (2001) will be indicated for readings during the term. The textbooks will be placed on reserve in the Gallagher Library and a limited number of copies of the Fetter textbook are also available at the bookstore. It is strongly recommended that students review the material in at least one of these textbooks, or better yet, purchase a copy for their personal library.

"Applied Hydrogeology", 4th Edition, Prentice-Hall.

"Groundwater", Freeze and Cherry, 1979, Prentice-Hall

Online Course Components: The Blackboard website (blackboard.ucalgary.ca) will be used throughout the course to make announcements and distribute lecture notes, laboratories, assignments, and other supplementary materials. Please check the course website regularly. Students are strongly encouraged to print the necessary materials and bring them to the lectures and labs.

We will use the Top Hat classroom response system to enhance learning in lectures throughout the term. Students will be required to have a portable electronic device such as a cellular telephone, tablet or laptop computer. Please see the instructor for accommodation requirements if you do not have one. Instructions for Top Hat registration will be given in class and on Blackboard. Your grade (as indicated above) will include a component related to in-class Top Hat participation and performance.

7. **Examination Policy:** All exams will be closed book. Only writing instruments, rulers and non-programmable calculators will be permitted on exams. No other aids. An instructor-prepared equation sheet will be provided. Students should also read the Calendar, Section G, on Examinations.
8. **Approved Mandatory and Optional Course Supplemental Fees:** N/A
9. **Writing across the curriculum statement:** In this course, the quality of the student's writing will be a factor in the evaluation of all written work (laboratories and assignments). See also [Section E.2](#) of the University Calendar. All students are expected to submit high quality work that is well-organized. Quality work must be clearly written, with questions labelled and in order, all tables and diagrams properly labelled, assumptions clearly stated, information sources properly referenced, and final answers clearly indicated (with appropriate units and significant figures). You are expected to **show all your work**, including equations and sample calculations as appropriate.
10. **Human studies statement:** N/A 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