



UNIVERSITY OF CALGARY
FACULTY OF SCIENCE
DEPARTMENT OF GEOSCIENCE
COURSE OUTLINE
WINTER 2016

1. **Course:** Geology 555, Global Tectonics

Lecture Sections:

L01: TuTh, 12:30-13:45, Room ST139

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

http://geoscience.ucalgary.ca/geoscience_info/courses/w16

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

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

2. **Prerequisites:** Geology 431 or 443 and Geology 493 or 491. 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:

Assignments, Review summary (lab)	15%
Quizzes (lab)	15%
Seminar Participation (lab)	10%
Lecture Midterm test	15% (Feb 23 2016)
Review Project (oral presentation)	10%
Review Project (Term Paper)	20%
Lecture Final Examination	15% (To be scheduled by the Registrar)

Students need to successfully complete the lab, lecture and project components of the course to get a passing grade. Successful completion of a component means obtaining >50% in the assessment parts associated with that component.

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
A+	>93
A	85-92.9
A-	80-84.9
B+	77-79.9
B	74-76.9
B-	71-73.9
C+	67-70.9
C	62-66.9
C-	58-61.9
D+	54-57.9
D	50-53.9
F	<50

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

Students who are absent from the midterm exam because of illness or other unforeseen circumstances may be granted an excuse upon presentation of adequate documentation (a completed Physician/Counsellor Report form <<http://www.ucalgary.ca/registrar/PDFs/phycoun.pdf>> for illness; equivalent documentation for other circumstances). There will be no “make-up” mid-term examination for excused absences. The weight assigned to the midterm examination will be transferred to the lecture final examination, which will be a cumulative exam for the students who were excused from writing the mid-term exam.

Similarly, students who are unable to submit laboratory reports on time because of similar excusable circumstances will be required to submit the same type of documentation to the Teaching Assistant.

5. **Course Materials:**

Recommended Textbook: Global Tectonics, 3rd Edition by Philip Kearey, Keith Klepis, Frederick J. Vine, Wiley-Blackwell

Instructor will regularly use supplementary materials outside of this textbook for discussions. This textbook will serve as a general reference for some but not all the topics covered in lectures.

6. **Examination Policy:** No electronic or written aids (eg. 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. **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) **Student Accommodations:** 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 http://www.ucalgary.ca/policies/files/policies/procedure-for-accommodations-for-students-with-disabilities_0.pdf. Students needing an Accommodation in relation to their coursework or to fulfil requirements for a graduate degree, based on a Protected Ground other than Disability, should communicate this need, preferably in writing, to the Associate Head of Geoscience, Dr. E.S. Krebs by email krebes@ucalgary.ca or phone 403-220-5850.

(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: December 15, 2015

GLGY555 Winter 2016 Tentative Lec-Lab-Exam Schedule

Week	Date M/W/F	Lec. No.	TOPIC	LABS
1	12-Jan	1	Course introduction and logistics	Meet , Greet and learn the rules
	14-Jan	2	Review of basic concepts of Plate Tectonics	
2	19-Jan	3	Introduction to Tectonics; Planetary Tectonics	Lab 1
	21-Jan	4	Global Heat Flux	
3	26-Jan	5	Strength of Lithosphere	Lab 2
	28-Jan	6	Plates: Geometry, motion and configuration	
4	2-Feb	7	Library research session TFDL 440 a and d	Lab 3
	4-Feb	8	Plates: Geometry, motion and configuration	
5	9-Feb	9	Continental Rifts	Lab 4
	11-Feb	10	Mid-Ocean Ridges	
6	16-Feb		No lecture - Reading Week	No labs
	18-Feb		No lecture - Reading Week	
7	23-Feb		Mid-term exam	Lab 5
	25-Feb	11	Passive Margins	
8	1-Mar	12	Orogens 1	Lab 6
	3-Mar	13	Orogens 2	
9	8-Mar	14	Orogens 3	Lab 7
	10-Mar	15	Supercontinents and supercontinent cycles	
10	15-Mar	16	Crustal Growth Models	Lab 8
	17-Mar	17	Subduction zones	
11	22-Mar	18	Plate Tectonics through time	Lab 9
	24-Mar	19	Plate Tectonics through time	
12	29-Mar	20	TBA	Presentations
	31-Mar	21	TBA	
13	5-Apr	22	TBA	Presentations
	7-Apr	23	Presentations	
14	12-Apr	24	Presentatons	Presentations
			EXAM SCHEDULE	Location
	23-Feb		Mid-term exam (during regular class time)	classroom
	TBA		Lecture Final Exam (scheduled by Registrar)	TBA