



ORIGINAL COURSE IMPLEMENTATION DATE: January 2010
 REVISED COURSE IMPLEMENTATION DATE: September 2016
 COURSE TO BE REVIEWED: (six years after UEC approval) November 2021
 Course outline form version: 09/15/14

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

Course Code and Number: GEOG 116	Number of Credits: 4 Course credit policy (105)																
Course Full Title: Introduction to Geology Course Short Title (if title exceeds 30 characters):																	
Faculty: Faculty of Social Sciences	Department (or program if no department): Geography and the Environment																
Calendar Description: <p>This course is an introductory course in physical geology that examines materials composing Earth and the processes that operate beneath and upon its surface. Topics include minerals, rocks (igneous, sedimentary, and metamorphic), plate tectonics, earthquakes, volcanoes, earth resources, geologic time, and the processes that have shaped the Earth.</p> <p>Note: Field trips may be required outside of class time.</p>																	
Prerequisites (or NONE):	None.																
Corequisites (if applicable, or NONE):																	
Pre/corequisites (if applicable, or NONE):																	
Equivalent Courses (cannot be taken for additional credit) Former course code/number: Cross-listed with: Equivalent course(s): <i>Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.</i>	Transfer Credit Transfer credit already exists: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Transfer credit requested (OReg to submit to BCCAT): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if yes, fill in transfer credit form) Resubmit revised outline for articulation: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No To find out how this course transfers, see bctransferguide.ca .																
Total Hours: 75 Typical structure of instructional hours: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr><td>Lecture hours</td><td style="text-align: right;">45</td></tr> <tr><td>Seminars/tutorials/workshops</td><td></td></tr> <tr><td>Laboratory hours</td><td style="text-align: right;">27</td></tr> <tr><td>Field experience hours</td><td style="text-align: right;">3</td></tr> <tr><td>Experiential (practicum, internship, etc.)</td><td></td></tr> <tr><td>Online learning activities</td><td></td></tr> <tr><td>Other contact hours:</td><td></td></tr> <tr><td style="text-align: right;">Total</td><td style="text-align: right;">75</td></tr> </table>	Lecture hours	45	Seminars/tutorials/workshops		Laboratory hours	27	Field experience hours	3	Experiential (practicum, internship, etc.)		Online learning activities		Other contact hours:		Total	75	Special Topics Will the course be offered with different topics? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, different lettered courses may be taken for credit: <input type="checkbox"/> No <input type="checkbox"/> Yes, repeat(s) <input type="checkbox"/> Yes, no limit <i>Note: The specific topic will be recorded when offered.</i>
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Other contact hours:																	
Total	75																
Department / Program Head or Director: Steven Marsh																	
Faculty Council approval																	
Campus-Wide Consultation (CWC)																	
Dean/Associate VP: Dr. Lucy Lee																	
Undergraduate Education Committee (UEC) approval																	
Date approved:	September 10, 2015																
Date approved:	October 9, 2015																
Date of posting:	n/a																
Date approved:	September 25, 2015																
Date of meeting:	November 27, 2015																

Learning Outcomes

Upon successful completion of this course, students will be able to:

1. articulate the scientific theories that explain the ways that basic geologic processes function and interact;
2. identify rocks and minerals based on their physical properties;
3. explain the theory of plate tectonics and its role in the formation of the Earth;
4. explain the processes involved in the shaping the Earth's surface;
5. describe geologic time, its major divisions and its influence on the processes that shape the Earth.

Prior Learning Assessment and Recognition (PLAR)

Yes No, PLAR cannot be awarded for this course because

Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)

Lectures, laboratory sessions, assigned readings, discussion groups, and field trips.

Grading system: Letter Grades: Credit/No Credit: Labs to be scheduled independent of lecture hours: Yes No

NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.

Typical Text(s) and Resource Materials (if more space is required, download Supplemental Texts and Resource Materials form)

Author (surname, initials)	Title (article, book, journal, etc.)	Current ed.	Publisher	Year
1. Tarbuck, E.J., F. K. Lutgens, C. J. Tsujita, and S. R. Hicock	Earth An Introduction to Physical Geology Fourth Canadian Edition.	<input checked="" type="checkbox"/>	Pearson	2015
2. Plummer, C., Carlson, D. and L. Hammersley	Physical Geology, 15 th Edition	<input checked="" type="checkbox"/>	McGraw-Hill Ryerson	2016
3. Christiansen, E and W.K. Hamblin	Dynamic Earth, 1 st edition	<input checked="" type="checkbox"/>	Nelson Education	2015
4.		<input checked="" type="checkbox"/>		
5.		<input type="checkbox"/>		

Required Additional Supplies and Materials (software, hardware, tools, specialized clothing, etc.)**Typical Evaluation Methods and Weighting**

Final exam:	25%	Assignments:	10%	Midterm exam:	25%	Practicum:	%
Quizzes/tests:	20%	Lab work:	20%	Field experience:	%	Shop work:	%
Other:	%	Other:	%	Other:	%	Total:	100%

Details (if necessary):**Typical Course Content and Topics**

1. Course Introduction.
2. Atomic structure and minerals.
3. Origin of Igneous rocks.
4. Volcanism.
5. Weathering and sedimentary rocks.
6. Metamorphism and metamorphic rocks.
7. Geologic time.
8. Plate Tectonics and the Earth's Interior.
9. Earthquakes.
10. Mass wasting.
11. Streams and groundwater.
12. Glaciers.
13. Coastal processes.
14. Deserts.