Undergraduate Course Outline Form

Fall 2017 Semester

Revised June 27, 2017 - JV

## General Information

**Course Code:** ENVS\*1060

**Course Title:** Principles of Geology

**Course Description:**

This course provides an introduction to geological principles, their historical development and application to interpreting Earth materials and processes. This course is suitable for those wishing a general knowledge of Earth sciences.

|  |  |
| --- | --- |
| *Offering(s):* | Offered through Distance Education format only. |
| *Equate(s):* | [GEOL\*1100](https://www.uoguelph.ca/registrar/calendars/undergraduate/current/includes/discontinued.shtml) |
| *Restriction(s):* | May not be taken for credit by students in BBRM, BSC or BSC (Env). |
| *Department(s):* | School of Environmental Sciences |

**Credit Weight:** 0.5

**Academic Department (or campus):** School of Environmental Sciences

**Campus:** NA

**Semester Offering:** F17

**Class Schedule and Location:** Distance Education

## Instructor Information

Instructor Name: Steven Sadura

Instructor Email: [sadura@uoguelph.ca](mailto:sadura@uoguelph.ca)

Instructor phone and extension: 519-824-4120 ext. 53393

Office location and office hours: ALEX221, office hours by appointment

## GTA Information

GTA Name: Kazuhito Mizutani

GTA Email: [kmizutan@uoguelph.ca](mailto:kmizutan@uoguelph.ca)

## Course Content

### Specific Learning Outcomes:

1. Develop a greater degree of scientific literacy

2. Become familiar with the materials that make up our planet and how they are organized

3. Understand the natural processes that shape our planet

4. Understand the driving forces behind various types of geologic phenomena

5. Understand that geology is a physical and historical science

6. Appreciate the interdependence between Earth materials and society.

7. Develop an understanding of Earth's place in the Universe; its' uniqueness and fragility

### Lecture Content:

### Online narrated slide shows for weekly studies

* Week 1: Origin of the Solar System and the Earth
* Week 2: Earth Structure
* Week 3: Plate Tectonics
* Week 4: Mineralogy
* Week 5: Igneous Geology
* Week 6: Weathering and Soils
* Week 7: Glacial Geology
* Week 8: Sedimentology
* Week 9: Paleontology
* Week 10: Stratigraphy and Time
* Week 11: Structural Geology
* Week 12: Metamorphism

### Online narrated concept maps to explain linkages between things

* Geologic Time
* Bowen’s Reaction Series
* Plate Tectonics
* The Rock Cycle

### Labs: None – Distance education

### Seminars: None – Distance education

### Course Assignments and Tests:

| **Assignment or Test** | **Due Date** | **Contribution to Final Mark (%)** | **Learning Outcomes Assessed** |
| --- | --- | --- | --- |
| *Midterm 1* | Fri. Oct. 13, 11:59pm | 25% | All as per concept maps (see notes below) |
| *Midterm 2* | Fri. Nov. 10, 11:59pm | 25% | All as per concept maps (see notes below) |
| *Final examination* | Tues. Dec. 5,  08:30-10:30am  Room TBA | 50% | All as per concept maps (see notes below) |

Additional Notes (if required):

Outcomes will be assessed based on student ability to research, interpret, and organize geological information. The concept maps presented during the course are important tools to navigate through the course and make important connections between subjects. Take-home midterm tests are open-book and library research is encouraged.

**Final examination date and time**: Tues. April 11, 7:00PM - 9:00PM, Room TBA

Final examination date and time: Tues. Dec. 5, 08:30-10:30am

### Final exam weighting: : 50%. IMPORTANT : YOU MUST PASS THE FINAL EXAM (50%) TO PASS THIS COURSE. IF YOU DON'T , THE MARK ON YOUR FINAL EXAM WILL BE YOUR FINAL GRADE IN THE COURSE.

## Course Resources

### Required Texts: Tarbuck, E.J., Lutgens, F.K. ,Tsujita, C.J. and Hickock 2014. (4th Cdn. edition) The Earth. Prentice Hall. On library reserve, Call number QE28.2 T37 2014

### Recommended Texts: None

### Lab Manual: NA

### Other Resources:

### Course notes, online overview slide presentations, self-tests and concept maps available via the course website on Courselink.

### 

### Field Trips: None

### Additional Costs: None

## Course Policies

### Grading Policies:

**Policy on Late Assignments:** **Do not submit your quizzes after the due date without express permission from your instructor or T.A. Any reasonable excuse for late submission will be accepted but failure to inform us will result in a mark of zero.** Keep paper and/or other reliable electronic back-up copies of all quizzes: you may be asked to resubmit work at any time.

### Course Policy on Group Work: It is expected that students will work collaboratively on the take-home midterm tests (and I encourage true collaborations). Do not simply copy the work of others because you won't learn much. The midterms are carefully designed to help you read through and understand the course material (see the additional notes under “course assignments and tests”). If you do well on these, you should do well on the final. Remember, YOU MUST PASS THE FINAL EXAM!

### Course Policy regarding use of electronic devices and recording of lectures: NA

## University Policies

### Academic Consideration:

The University of Guelph is committed to supporting students in their learning experiences and responding to their individual needs and is aware that a variety of situations or events beyond the student's control may affect academic performance. Support is provided to accommodate academic needs in the face of personal difficulties or unforeseen events in the form of Academic Consideration.

Information on regulations and procedures for Academic Consideration, Appeals and Petitions, including categories, grounds, timelines and appeals can be found in [Section VIII (Undergraduate Degree Regulations and Procedures) of the Undergraduate Calendar](https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-ac.shtml).

### Academic Misconduct:

The University of Guelph is committed to upholding the highest standards of academic integrity and it is the responsibility of all members of the University community, faculty, staff, and students to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring.

University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff and students have the responsibility of supporting an environment that discourages misconduct. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection. Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member or faculty advisor.

Detailed information regarding the Academic Misconduct policy is available in [Section VIII (Undergraduate Degree Regulations and Procedures) of the Undergraduate Calendar](https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-amisconduct.shtml).

### Accessibility:

The University of Guelph is committed to creating a barrier-free environment. Providing services for students is a shared responsibility among students, faculty and administrators. This relationship is based on respect of individual rights, the dignity of the individual and the University community's shared commitment to an open and supportive learning environment. Students requiring service or accommodation, whether due to an identified, ongoing disability or a short-term disability should contact the Student Accessibility Services (SAS), formerly Centre for Students with Disabilities (CSD), as soon as possible.

For more information, contact SAS at 519-824-4120 ext. 56208 or email sas@uoguelph.ca or visit the [Student Accessibility Services website (http://www.uoguelph.ca/csd/)](http://www.uoguelph.ca/csd/).

### Course Evaluation Information:

End of semester course and instructor evaluations provide students the opportunity to have their comments and opinions used as an important component in the Faculty Tenure and Promotion process, and as valuable feedback to help instructors enhance the quality of their teaching effectiveness and course delivery.

While many course evaluations are conducted in class others are now conducted online. Please refer to the [Course and Instructor Evaluation Website](https://courseeval.uoguelph.ca/) **for more information.**

### Drop period:

The drop period for single semester courses starts at the beginning of the add period and extends to the Fortieth (40th) class day of the current semester (the last date to drop a single semester courses without academic penalty) which is listed in [Section III (Schedule of Dates) of the Undergraduate Calendar](https://www.uoguelph.ca/registrar/calendars/).

The drop period for two semester courses starts at the beginning of the add period in the first semester and extends to the last day of the add period in the second semester.

Information about Dropping Courses can be found in [Section VIII (Undergraduate Degree Regulations and Procedures) of the Undergraduate Calendar](https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-drop.shtml).

## Additional Course Information

None