Fond du Lac Tribal and Community College
COURSE OUTLINE FORM

Updated 9/23/14

Please return this form to the college vice president of academic affairs and the chairperson of the Academic Affairs and Standards Council (AASC)

1. Prepared by:_____

2. Date submitted:_____

3. Date approved: _____ Date revised 10/14/14

4. Department/discipline: Geology

5. Department(s) endorsement(s):_____
(Signatures of the person(s) providing the endorsement are required.)

6. Course Title: Introductory Geology
Abbreviated course title (25 characters or less):_____

7. Course Designator: GEOL 8. Course Level: 1001 9. 2XXX

10. Number of Credits: Lecture 3 Lab 1

11. Control Number (on site) 24 Control Number (online)_____

12. Catalog/Course description:

An introduction to the structure and evolution of the earth and its landforms, including the study of minerals and rocks, volcanic activity, earth quakes, and the theory of plate tectonics. The geology of Minnesota is emphasized. (Meets MnTC goal area 3).

13. Course prerequisite(s) or co-requisite(s): Accuplacer scores/ Other courses

Prerequisite(s):
Co-requisite:

14. **Course Materials** (Recommended course materials and resources. List all that apply, e.g. textbooks, workbooks, study guides, lab manuals, videos, guest lecturers).

Text determined on a yearly basis depending on availability and content.

Handlens, Three-Ring Binder, Ruler, and Colored Pencils.

Handouts, Overheads, Slides, and Videos.

15. **Course Content** (Provide an outline of major topics covered in course)

- Structure of the Earth
- Minerals
- Igneous Rocks and Processes
- Plate Tectonics
- Volcanism
- Earthquakes
- Sedimentary Rocks and Processes
- Glaciers

- Metamorphic Rocks and Processes
- Geologic Time and Principles

16. **Learning Goals, Outcomes, and Assessment**

At FDLTCC we have 4 Competencies Across the Curriculum (CAC) areas. They are as follows:

A. Information Literacy (the ability to use print and/or non-print tools effectively for the discovery, acquisition, and evaluation of information)
B. Ability to Communicate (the ability to listen, read, comprehend, and/or deliver information in a variety of formats.)
C. Problem Solving (the ability to conceptualize, apply, analyze, synthesize, and/or evaluate information to formulate and solve problems.)
D. Culture (knowledge of Anishinaabe traditions and culture, knowledge of one's own traditions and culture, knowledge of others' traditions and cultures, culture of work, culture of academic disciplines and/or respect for global diversity.)

Course learning outcomes will fulfill the identified competencies.

Course Learning Outcomes:

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

1. Explain how volcanic and tectonic activity relate to plate tectonics. (B)
2. Identify rocks of the Thomson Formation and Duluth Complex. (C)
3. Conduct internet research, and present in written report form, an assigned geologic topic. (A, B)
4. Demonstrate methods used to identify the 8 most common rock forming minerals. (B, C)

17. **Minnesota Transfer Curriculum (MnTC):** If this course fulfills an MnTC goal area, state the goal area and list the goals and outcomes below:

See www.mntransfer.org

Goal Area(s): 3

Goal and Outcomes:
Goal 3: Natural Sciences

Course goals:
Goal: To promote an understanding of geologic concepts and their relevancy to the student's everyday world.

Outcome: Students will demonstrate and communicate geologic concepts through scientific inquiry and laboratory activities.

Assessment:
- In Class question and answers
- Lab journals
- Problem solving exercises
- Student presentations
- Exams
- Attendance