Fond du Lac Tribal and Community College
COURSE OUTLINE FORM

Updated 01/21/16

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: 2/2000 Date revised 10/14/14, 04/21/16

4. Department/discipline: Geology

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

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

7. Course Designator: GEOL 8. Course Level: 2010

9. Number of Credits: Lecture 4 Lab _____

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

11. Catalog/Course description:

A study of the origin and evolution of landforms on the Earth's surface with emphasis on the examination of geomorphic processes through laboratory and field trip activities. Implications of human interactions with the environment from a geomorphic perspective will be incorporated. (Meets MnTC goal area 3 & 10).

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

Prerequisite(s):

Co-requisite:

13. **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.

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

Handouts, Maps, Overheads, Slides, and Videos.

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

- Topographic Maps
- Aerial Photographs
- Structural Processes-Landforms
- Volcanic Processes-Landforms
- Climate, Weathering, and Erosion Processes
- Slope Processes-Landforms
- Soil Geomorphology

- Hydrological Systems
- Fluvial Processes-Landforms
- Eolian Processes-Landforms
- Glacial/Periglacial Processes-Landforms
- Karst Processes-Landforms
- Coastal Processes-Landforms
- Quaternary Geomorphology

15. **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. Construct a topographic map from a landform model. (C)
2. Explain how glacial processes played an important role in creating the major landforms of Carlton County. (B)
3. Conduct internet research and give class presentation on a local environment issue associated with geomorphic systems in Carlton and St. Louis counties. (A, B)
4. Demonstrate use of United States Geologic Survey maps to define geomorphic relationships of watersheds and human development of the landscape. (B, C)

16. **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 & 10

Goal and Outcomes:
Goal 3: Natural Sciences

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

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

Assessment:

- In class question and answers
- Lab and field activities
- Problem solving exercises
- Student presentations
- Exams
- Attendance

Goal 10: People and the Environment

Students will be able to:

- Explain the basic functions of geomorphology within ecosystems.
- Discern patterns and interrelationships within fluvial systems and how humans interact with them at individual and community levels.
- Describe the role of the United States Geologic Survey in mapping hydrological and geological resources related to socioeconomic development.
- Evaluate human impact on the environment in terms of local and regional geomorphic systems.

Does this course require additional material for specific program requirements?
If yes, please provide.