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: 2/1/2000 Date revised: 4/21/2016

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: 0

10. Control Number (on site): 24 __
    Control Number (online): 0

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):
    Prerequisite(s): None
    Co-requisite: None

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

   1. Text determined on a yearly basis depending on availability and content.
   2. Three-Ring Binder, Metric Ruler, and Colored Pencils.
   3. Handouts, Maps, Overheads, Slides, and Videos.
14. **Course Content** (Provide an outline of major topics covered in course)

1. Topographic Maps
2. Aerial Photographs
3. Structural Processes-Landforms
4. Volcanic Processes-Landforms
5. Climate, Weathering, and Erosion Processes
6. Slope Processes-Landforms
7. Soil Geomorphology
8. Hydrological Systems
9. Fluvial Processes-Landforms
10. Eolian Processes-Landforms
11. Glacial/Periglacial Processes-Landforms
12. Karst Processes-Landforms
13. Coastal Processes-Landforms
14. 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: Natural Sciences & People and the Environment
Outcome:

Goal 3: Natural Sciences
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:
1. In class question and answers
2. Lab and field activities
3. Problem solving exercises
4. Student presentations
5. Exams
6. Attendance

Goal 10: People and the Environment
Students will be able to:
1. Explain the basic functions of geomorphology within ecosystems.
2. Discern patterns and interrelationships within fluvial systems and how humans interact with them at individual and community levels.
3. Describe the role of the United States Geologic Survey in mapping hydrological and geological resources related to socioeconomic development.
4. Evaluate human impact on the environment in terms of local and regional geomorphic systems.
Complete the following only if you are proposing a new course:

1. Planned pattern of offering:
2. Rationale for course: If this course is an ADDITION or replacement to current offerings, add a detailed explanation of the necessity for the change.
3. Does this course overlap with any course(s) offered at FDLTCC? If so, justify such duplication or indicate other adjustments to be made. Obtain signatures from affected departments.
4. What is the apparent or expressed student need for this course?
5. If this course includes a Native American or specifically Anishinaabe component list campus resource person/s—i.e., campus cultural/spiritual resource person/s and, if necessary, elder/s—consulted and include specific comments and written responses as appropriate.
6. Are there any additional licensing/certification requirements involved?
   a. Provide a copy of the required licensing/certification standards to the AASC chair and to the vice president of academic affairs.
   b. Attach the required documentation to show course meets required licensing/certification standards.
7. What types of tutoring will be made available through the CAA to students taking this course?
8. How will the course be evaluated?
9. Special resources—e.g. faculty, space, equipment, library, etc
10. Special course fees:
11. Relationship of course to the college mission statement and goals.
12. Relationship of course to the department’s mission statement and goals.
13. Relationship of course to colleges/university offerings (include tribal colleges).

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<th>College or University</th>
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