

**UCC/UGC/ECCC**

Proposal for Course Change

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| **[ ]  FAST TRACK (Select if this will** **be a fast track item. Refer to**  [***Fast Track Policy***](http://www4.nau.edu/avpaa/UCCPolicy/Agenda_FastTrack_Consent.docx) **for eligibility)** |

# *If the changes included in this proposal are significant, attach copies of original and proposed syllabi in* [*approved university format*](http://www4.nau.edu/avpaa/UCCForms/syllabus.doc)*.*

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| 1. Course subject and number: | **GSP 259** | 2. Units: | **3** |

 [**See upper and lower division undergraduate course definitions**](http://www4.nau.edu/avpaa/UCCPolicy/Uplow.doc).

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| 3. College: | SBS | 4. Academic Unit: | Geography, Planning, and Recreation |

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| 5. Current Student Learning Outcomes of the course.The goal of this course is to acquaint you with the scientific study of landscapes. You will learn to describe landforms and interpret the origin ofEarth’s surface features and materials. You will gain an understanding of the surficial processes that shape the landscape, especially: fluvial, eolian, hillslopes, and glacial processes. | Show the proposed changes in this column (if applicable). Bold the proposed changes in this column to differentiate from what is not changing, and Bold with strikethrough what is being deleted. *(*[*Resources & Examples for Developing Course Learning Outcomes*](http://www4.nau.edu/avpaa/Assessment/CourseLearningOutcomesPDF_090712.pdf)*)*The goal of this course is to acquaint **~~you~~** **students** with the scientific study of landscapes. Upon completion of this course, students will be able to describe landforms and interpret the origin of Earth’s surface features and materials. Students will gain an understanding of the surficial processes that shape the landscape, especially: fluvial, eolian, hillslopes, and glacial processes. |

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| 6. Current **title,** **description** and **units**. Cut and paste, in its entirety,from the current on-line academic catalog\* [**http://catalog.nau.edu/Catalog/**](http://catalog.nau.edu/Catalog/).**GSP 259 – LANDFORMS AND REGIONS (3)** Description: Geographic approach to interactions between the earth's crust, climate, and water, emphasizing the spatial arrangement of surface features. Letter grade only. Course fee required. Prerequisite: any introductory science course. Units: 3 | Show the proposed changes in this column **Bold** the proposed changes in this column to differentiate from what is not changing, and **~~Bold with strikethrough~~**what is being deleted.GSP 259 – **~~Landforms And Regions~~ Principles of Geomorphology**Description: **~~Geographic approach to interactions between the earth's crust, climate, and water, emphasizing the spatial arrangement of surface features.~~ Interpretation of the development, history, and significance of landforms. Cross List with GLG 259.** Letter grade only. Course fee required. **~~Prerequisite: any introductory science course~~** Units: 3**Prerequisite: [GLG 101 or (GLG 100 or GLG 112 with a grade of B or better)] or GSP 150.**  |

\*if there has been a previously approved UCC/UGC/ECCC change since the last catalog year, please copy the approved text from the proposal form into this field.

7. Justification for course change.

Re-naming and minor modification of content to align with proposed cross-listed course GLG 259

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| 8. Effective **BEGINNING** of what term and year? | **Fall 2014** |
| [**See effective dates calendar**](http://www4.nau.edu/avpaa/timelines/1314Effective.xls). |  |

**IN THE FOLLOWING SECTION, COMPLETE ONLY WHAT IS CHANGING**

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| **CURRENT** | **PROPOSED** |
| Current course subject and number: | Proposed course subject and number: |
| Current number of units: | Proposed number of units: |
| Current short course title:LANDFORMS AND REGIONS  | Proposed short course title (max 30 characters): **PRINCIPLES OF GEOMORPHOLOGY** |
| Current long course title:LANDFORMS AND REGIONS  | Proposed long course title (max 100 characters):**PRINCIPLES OF GEOMORPHOLOGY** |
| Current grading option:letter grade [ ]  pass/fail [ ]  or both [ ]  | Proposed grading option:letter grade [ ]  pass/fail [ ]  or both [ ]  |
| Current repeat for additional units: | Proposed repeat for additional units: |
| Current max number of units: | Proposed max number of units: |
| Current prerequisite:**NONE** | Proposed prerequisite (include rationale in the justification): **[GLG 101 or (GLG 100 or GLG 112 with a grade of B or better)] or GSP 150.**  |
| Current co-requisite: | Proposed co-requisite (include rationale in the justification):  |
| Current co-convene with: | Proposed co-convene with: |
| Current cross list with:**NONE** | Proposed cross list with:**GLG 259** |

9. Is this course in any plan (major, minor, or certificate) or sub plan (emphasis)? Yes [x]  No [ ]

 If yes, describe the impact. If applicable, include evidence of notification to and/or response

 from each impacted academic unit.

This course is required for the Geospatial Sciences Emphasis of the Geographic Science and Community Planning BS and for the Physical Geography Minor.

10. Is there a related plan or sub plan change proposal being submitted? Yes [ ]  No [x]

 If no, explain.

Cross-listing the course will not impact either of these plans.

11. Does this course include combined lecture and lab components?                  Yes [ ]  No [x]

 If yes, include the units specific to each component in the course description above.

**Answer 12-15 for UCC/ECCC only:**

12. Is this course an approved Liberal Studies or Diversity course?                    Yes [ ]  No [x]

       If yes, select all that apply.   Liberal Studies [ ]    Diversity [ ]    Both [ ]

13. Do you want to remove the Liberal Studies or Diversity designation?            Yes [ ]  No [ ]

 If yes, select all that apply.   Liberal Studies [ ]    Diversity [ ]     Both [ ]

14. Is this course listed in the [**Course Equivalency Guide**](https://aztransmac2.asu.edu/cgi-bin/WebObjects/Admin_CEG.woa/wa/ByInst?inst=NAU)?                               Yes [ ]  No [x]

15. Is this course a [**Shared Unique Numbering**](https://aztransmac1.asu.edu/cgi-bin/WebObjects/ATASS.woa/wa/SUNList?S=X) (SUN) course?                            Yes [ ]  No [x]

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| **FLAGSTAFF MOUNTAIN CAMPUS** |  |
| **Scott Galland**  | **09/29/2013** |
| Reviewed by Curriculum Process Associate | Date |
|  |  |
| **Approvals**: |  |
|  |  |
| Department Chair/Unit Head (if appropriate) | Date |
|  |  |
| Chair of college curriculum committee | Date |
|  |  |
| Dean of college | Date |
|  |  |
| **For Committee use only:** |  |
|  |  |
| UCC/UGC Approval | Date |

Approved as submitted: Yes [ ]  No [ ]

Approved as modified: Yes [ ]  No [ ]

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| **EXTENDED CAMPUSES** |  |
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| Reviewed by Curriculum Process Associate | Date |
|  |  |
| **Approvals:**  |  |
|  |
| Academic Unit Head | Date |
|  |
| Division Curriculum Committee (Yuma, Yavapai, or Personalized Learning) | Date |
|  |
| Division Administrator in Extended Campuses (Yuma, Yavapai, or Personalized Learning) | Date |
|  |
| Faculty Chair of Extended Campuses Curriculum Committee (Yuma, Yavapai, or Personalized Learning) | Date |
|  |
| Chief Academic Officer; Extended Campuses (or Designee) | Date |
|  |  |

Approved as submitted: Yes [ ]  No [ ]

Approved as modified: Yes [ ]  No [ ]

**CURRENT SYLLABUS:**

**GSP 259 – LANDFORMS AND PHYSIOGRAPHIC REGIONS**

**SYLLABUS - Spring 2013**

**Credit hours:** 3

**Instructor:** Erik Schiefer

**Department:** Geography, Planning, and Recreation at Northern Arizona University, Flagstaff

**Office:** Social and Behavioral Sciences (SBS) West building, room 242

**Office hours:** Tu Th 2-3pm

**Phone:** 928-523-6535

**E-mail:** Erik.Schiefer@nau.edu

**Course Prerequisites:** Any introductory science course.

**Course Fee:** None.

**Course Description:**

This course provides an introduction to landforms and earth surface processes responsible for landform development. In other words, this is an introductory course in Geomorphology. A geographic

approach is used to explore spatial and temporal interactions between the earth’s solid surface and the major geomorphic forces that act upon it, including tectonics, gravity, climate, humans, and flowing water, air, and ice. The course presents a global perspective, but with there will be some emphasis placed on the North American continent. Temporal scales ranging from millions of years to seconds and spatial scales ranging from continents and mountain systems to sand ripples and grooved bedrock.

**Course Objectives:**

The goal of this course is to acquaint you with the scientific study of landscapes. You will learn to describe landforms and interpret the origin of Earth’s surface features and materials. You will gain an understanding of the surficial processes that shape the landscape, especially: fluvial, eolian, hillslopes, and glacial processes.

**Course Structure:**

Lectures Tu Th 4:00-5:15PM in SBS West, room 204

There is no laboratory session for this course. A series of short assignments will be assigned

throughout the course which must be completed outside of the scheduled lecture time.

**Textbooks and Required Materials:**

There is no required textbook for this course. For many of the classes, handouts will be provided.

Lecture outlines (not complete notes) and diagrams presented in class will be posted on the course’s

Bb Learn website during the term. Attendance is required so that you will be able to complete

handouts and take notes. You are responsible for understanding handout and lecture materials for class tests as specified by the course instructor. To complete class assignments, you will need to have access to a computer with internet and the most recent version of Google Earth.

**Course Evaluation:**

Test One 15% - in lecture on Feb 7th

Test Two 15% - in lecture on March 7th

Test Three 15% - in lecture on April 4th

Test Four 15% - as scheduled by NAU for Spring 2013 Final Exams in May

Tests are not cumulative (i.e. only cover materials presented since the previous test)

Class assignments 30% - to be completed outside of the scheduled lecture times

Attendance/participation 10%

**Administrative Drop:**

Students who are missing classes at the beginning of the semester will be automatically dropped from the course.

**Late Policy:**

Tests MUST be taken on the date of the test, unless there is a legitimate health- or university-related

conflict. If you know that a conflict exists prior to the test, please talk to me about it, and we will

make alternative arrangements. Appropriate documentation will be required. Class assignments will

be due as indicated by the instructor. Assignments will be reviewed in class and so they will not be

accepted late.

**Class Schedule:**

Date Planned Lecture

Jan 15 (Tu) Class introduction

Jan 17 (Th) Landforms and Physiographic Regions

Jan 22 (Tu) Tectonic and Structural Landforms 1

Jan 24 (Th) Tectonic and Structural Landforms 2

Jan 29 (Tu) Volcanic Landforms 1

Jan 31 (Th) Volcanic Landforms 2

Feb 05 (Tu) Weathering and Landforms

Feb 07 (Th) Test 1

Feb 12 (Tu) Colluvial Landforms 1

Feb 14 (Th) Colluvial Landforms 2

Feb 19 (Tu) Colluvial Landforms 3

Feb 21 (Th) Guest lecture 1

Feb 26 (Tu) Fluvial Landforms 1

Feb 28 (Th) Fluvial Landforms 2

Mar 05 (Tu) Fluvial Landforms 3

Mar 07 (Th) Test 2

Mar 12 (Tu) Eolian Landforms 1

Mar 14 (Th) Eolian Landforms 2

Mar 19 (Tu) Spring Break!

Mar 21 (Th) Spring Break!

Mar 26 (Tu) Coastal Landforms 1

Mar 28 (Th) Coastal Landforms 2

Apr 02 (Tu) Periglacial Landforms

Apr 04 (Th) Test 3

Apr 09 (Tu) AAG Conference - no class

Apr 11 (Th) AAG Conference - no class

Apr 16 (Tu) Glacial Landforms 1

Apr 18 (Th) Glacial Landforms 2

Apr 23 (Tu) Glacial Landforms 3

Apr 25 (Th) Guest lecture 2

Apr 30 (Tu) Anthropogenic and Extraterrestrial Landforms 1

May 02 (Th) Anthropogenic and Extraterrestrial Landforms 2

Finals week Test 4

**PROPOSED SYLLABUS**:

**College of Engineering, Forestry and Natural Sciences**

**School of Earth Sciences and Environmental Sustainability**

**AND**

**College of Social and Behavioral Sciences**

**Geography, Planning and Recreation**

**Principles of Geomorphology (GLG/GSP 259)**

Spring 2015

**Instructor:** XXXXXXXX (Office; Phone; Email)

**Office Hours:** XXXXXXXX

**Credit Hours:** 3 (additional lab credit available, see below)

**Lecture:** XXXXXX

**Required Text:** Ritter, DF, Kochel, RC, and Miller JR. Process Geomorphology, 5th Edition

Waveland Press, ISBN 13: 978-1-57766-669-1

 **\***Other readings will be required and posted on BBlearn

**Prerequisite:** Intro. Physical Geology (GLG100 or GLG112 with grade of B or better) or GLG 101,

or Physical Geography (GSP150)

**Lab course:**

A co-convened laboratory/field class (GLG259L) is required for Geology majors. It is optional for other students if space is available (most seats are reserved for Geology majors).

**Course Description:**

This course provides an introduction to landforms and earth surface processes responsible for landform development. In other words, this is an introductory course in Geomorphology. A geologic/geographic approach is used to explore spatial and temporal interactions between the earth’s solid surface and the major geomorphic forces that act upon it, including tectonics, gravity, climate, humans, and flowing water, air, and ice. The course presents a global perspective, but with there will be some emphasis placed on the North American continent and the U.S. Southwest. Temporal scales range from millions of years to seconds and spatial scales range from continents and mountain systems to sand ripples and grooved bedrock.

**Student Learning Outcomes:**

The goal of this course is to acquaint students with the scientific study of landscapes. Upon completion of this course, students will be able to describe landforms and interpret the origin of Earth’s surface features and materials. Students will gain an understanding of the surficial processes that shape the landscape, especially: fluvial, eolian, hillslopes, and glacial processes.

**Course Requirements and Expectations:**

You are expected to attend the lectures and to study the assigned sections in textbook, articles, and class handouts. All assignments must be turned in on time. No material will be accepted after the due date and there will be no make-up exams, unless by prior arrangement.

**Course Readings:**

There will be periodic, relevant readings assigned. I expect to be able to discuss those readings in class, so that we can answer critical questions pertaining to surface processes. While you will not be quizzed, or graded on these discussions, the test content will NOT be limited to the text and my lectures. Readings will always be included.

**Assessment of Student Learning Outcomes:**

Graded activities in this class will explicitly assess the student learning outcomes described above. Your final grade will be based 50% on exams and 50% on other course components:

 Three “midterm” exams (3@12.5%) (dates) 37.5%

 Comprehensive final exam (date) 12.5%

 Quizzes (approximately weekly) 10%

 Homework assignments (approximately weekly) 30%

 Research topic presentation (last week of classes) 10%

*Grading system*: Your final letter grade will be *no lower* than the following: 90% = A; 80% = B; 70% = C; 60% = D. Cutoffs may be adjusted *downward*. Your final score is calculated as the ratio of the points that you earned versus the total number of available points, weighted according to the factors shown above.

**Exams:** Exams will emphasize material discussed in lecture and contained in the textbook and outside readings. Exams will include a variety of question formats to gauge both the depth and the breadth of your understanding of the material. Exams will include only material covered since the previous exam (i.e., they are not comprehensive), except the final, which will include an additional comprehensive exam worth 5% of your final grade. The comprehensive portion will be based on identification and interpretation of landforms seen in photos viewed in previous lectures.

**Quizzes:**

Quizzes will test your understanding of material covered in reading assignments. Quizzes will take place on the day that the reading assignment is due and will comprise a few terms or questions from a short study guide. Quizzes will be graded on a ten-point scale and the lowest score will be dropped. No make-up quizzes will be allowed without an institutional or medical release form.

**Research Topic Presentation:**

You will choose a research topic relevant to geomorphology and interesting to you by November 1st, and then present the topic to the class during our last meetings in December. I will provide a rubric describing how you will be evaluated.

**Extra Credit:**

There will be an extra credit question worth 5-10 points based on the assigned reading in each exam.

**NAU Policies:**

Attach the Safe Working and Learning Environment, Students with Disabilities, Institutional Review Board, and Academic Integrity policies or reference them on the syllabus.

# Course Outline:

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| --- | --- | --- | --- | --- |
| **Wk** | **Day** |  | **Lecture topic** | **Chapter** |
| 1 |  |  | introduction |  |
| 2 |  |  | fluvial processes |  |
| 3 |  |  | fluvial processes |  |
| 4 |  |  | fluvial landforms |  |
| 5 |  |  | tilted rocks |  |
| 6 |  |  | surficial maps |  |
| 7 |  |  | weathering |  |
| 8 |  |  | soils |  |
| 9 |  |  | mass wasting |  |
| 10 |  |  | folds, joints, faults |  |
| 11 |  |  | volcanic landforms |  |
| 12 |  |  | glacier processes |  |
| 13 |  |  | glacier landforms |  |
| 14 |  |  | glaciers and climate change |  |
| 15 |  |  | presentations |  |