

Fall 2018

# EVSC 381 - Geomorphology

Nancy Jackson

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## Geomorphology: Fall 2018 Course Syllabus

[NJIT Academic Integrity Code](#): All Students should be aware that the Department of Chemistry & Environmental Science (CES) takes the University Code on Academic Integrity at NJIT very seriously and enforces it strictly. This means that there must not be any forms of plagiarism, i.e., copying of homework, class projects, or lab assignments, or any form of cheating in quizzes and exams. Under the University Code on Academic Integrity, students are obligated to report any such activities to the Instructor.

### COURSE INFORMATION

#### Course Description:

This is a course in geomorphology, the study of landforms and the contemporary processes that create and modify them. This course will focus on geomorphology in a range of environments (aeolian, coastal, fluvial, glacial). We will examine the processes that drive geomorphic change in these environments and then assess the landforms that those processes create. We will examine how humans have altered contemporary landforms to adjust to extreme events (i.e. flooding) and climate change (i.e. sea level). Lectures will stress geomorphic principles and exercises will enable students to apply these principles to contemporary geomorphic problems in engineering and management with a focus on the natural environment.

**Number of Credits:** 3

**Prerequisites:** none

#### Course-Section and Instructors

Course-Section	Instructor
EVSC381001	Nancy Jackson

**Office Hours:** Monday and Tuesday 3:00-4:30

#### Required Textbook:

<b>Title</b>	Process Geomorphology
<b>Author</b>	Ritter, D.F., Kochel, R.C., Miller, J.R.
<b>Edition</b>	5 <sup>th</sup>
<b>Publisher</b>	Waveland Press
<b>ISBN #</b>	13: 978-1-57766-669-1

**University-wide Withdrawal Date:** The last day to withdraw with a W is Monday, November 12, 2018. It will be strictly enforced.

**Learning Outcomes:** Students will be able to:

1. Describe landforms in different environments and the processes that create and maintain these landforms.
2. Know and apply common process-based formulae for the entrainment and transport of sediment by wind and water.
3. Explain how humans can influence both processes and landforms and the importance of this information in interpreting landform behavior.
4. Synthesize and communicate (oral and written) scientific research findings by development of a term project.

## POLICIES

All CES students must familiarize themselves with, and adhere to, all official university-wide student policies. CES takes these policies very seriously and enforces them strictly.

**Grading Policy:** The final grade in this course will be determined as follows:

Exam I	25%
Exam II	25%
Final Project	25%
Project Presentation	10%
Class Discussion	15%

Your final letter grade in this course will be based on the following tentative curve:

A	90+	C	70-74
B+	85-89	D	60-69
B	80-84	F	<60
C+	75-79		

Final grades are not subject to post-semester adjustment-with the exception of the amendment of a grading error. Under no circumstances will students be given the opportunity to complete extra-credit papers or other assignments to bolster their final grade.

**Attendance Policy:** The class builds on information from prior weeks and thus attendance is strongly recommended. It is also strongly preferred that you not depart the classroom in the middle of a session. Please arrive to class with the expectation that you will need to remain in place for the scheduled time period.

**Exams:** There will be two exams held in class during the semester. The following exam dates are tentative:

Exam I	Oct. 8
Exam II	Nov. 28

**Makeup Exam Policy:** There will normally be **NO MAKE-UP EXAMS** during the semester. In the event that a student has a legitimate reason for missing a quiz or exam, the student should contact the Dean of Students office and present written verifiable proof of the reason for missing the exam, e.g., a doctor's note, police

report, court notice, etc. clearly stating the date AND time of the mitigating problem. The student must also notify the CES Department Office/Instructor that the exam will be missed so that appropriate steps can be taken to make up the grade.

**Cellular Phones:** All cellular phones and other electronic devices must be switched off during all class times. Such devices must be stowed in bags during exams or quizzes.

## ADDITIONAL RESOURCES

**Accommodation of Disabilities:** Office of Accessibility Resources and Services (*formerly known as Disability Support Services*) offers long term and temporary accommodations for undergraduate, graduate and visiting students at NJIT.

If you are in need of accommodations due to a disability please contact Chantonette Lyles, Associate Director at the Office of Accessibility Resources and Services at **973-596-5417** or via email at [lyles@njit.edu](mailto:lyles@njit.edu). The office is located in Fenster Hall Room 260. A Letter of Accommodation Eligibility from the Office of Accessibility Resources Services office authorizing your accommodations will be required.

For further information regarding self-identification, the submission of medical documentation and additional support services provided please visit the Accessibility Resources and Services (OARS) website at:

- <http://www5.njit.edu/studentssuccess/disability-support-services/>

**Important Dates** (See: [Fall 2018 Academic Calendar, Registrar](#))

Date	Day	Event
September 4, 2018	T	First Day of Classes
September 10, 2018	M	Last Day to Add/Drop Classes
November 12, 2018	M	Last Day to Withdraw
November 20, 2018	T	Thursday Classes Meet
November 21, 2018	W	Friday Classes Meet
November 22 - 25, 2018	R - Su	Thanksgiving Break - University Closed
December 12, 2018	W	Last Day of Classes
December 14, 2018	F	Reading Day
December 15 - 21, 2018	F - R	Final Exam Period

## Course Outline

MONTH	DAY	DATE	TOPIC	READINGS/ASSIGNMENTS
SEP	W	05	Introduction to Course	
	M	10	Process and Response	CH 1
	W	12	Internal Forces and Climate	CH 1 and 2
	M	17	Internal Forces and Climate	
	W	19	Weathering	CH 3 48-64, CH 4 86-100
	M	24	Weathering	
	W	26	Slope and Mass Movement	CH 4 100-147
OCT	M	01	Slope and Mass Movement	
	W	03	Review	
	M	08	Exam 1	
	W	10	Drainage Basins	CH 5
	M	15	Drainage Basins	
	W	17	Fluvial Processes and Landforms	CH 6&7
	M	22	Fluvial Processes and Landforms	

	W	24	Aeolian Processes and Landforms	CH 8
	M	29	Aeolian Processes and Landforms	Research Project: Title, abstract, references due
	W	31	Coastal Processes and Landforms	CH 13
NOV	M	05	Coastal Processes and Landforms	
	W	07	Workshop	
	M	12	Glacial Processes and Landforms	Research Project: outline and annotated bibliography due
	W	14	Glacial Processes and Landforms	CH 9&10
	M	19	Humans and Geomorphology	
	W	21	No Class	
	M	26	Review	
	W	28	Exam 2	
DEC	M	03	Workshop	
	W	05	Presentations	
	M	10	Presentations	
	W	12	Presentations	

*Updated by - 2018  
Department of Chemistry & Environmental Sciences  
Course Syllabus, Fall 2018*

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