

Date Submitted: 01/17/19 5:07 pm

Viewing: **G 202 : Earth Surface Processes** ~~Physical Geology~~

Last approved: 03/19/15 12:56 pm

Last edit: 02/02/19 7:19 am

Changes proposed by: eriks.puris

Catalog Pages  
referencing this course [General Education/Discipline Studies](#)  
[Geology](#)

Other Courses  
referencing this course This course is listed in the Catalog Description  
for:  
[G 203 : Evolution of Planet Earth](#)

#### General Information

#### In Workflow

1. G SAC Chair
2. G SAC Administrative Liaison
3. Curriculum Office- Curriculum
4. Curriculum Committee Chair
5. Dean of Instruction - Cascade
6. Dean of Academic Affairs
7. VP Academic Affairs
8. Ready for Banner
9. Banner

#### Approval Path

1. 01/18/19 12:54 pm  
eriks.puris:  
Recommended for G SAC  
Chair
2. 01/18/19 1:07 pm  
alyson.lighthart:  
Recommended for G SAC  
Administrative Liaison
3. 01/27/19 2:59 pm  
sally.earll:  
Recommended for  
Curriculum Office-  
Curriculum
4. 02/19/19 6:14 am  
ann.cary: Recommended  
for Curriculum  
Committee Chair

#### History

1. Aug 12, 2014 by jmorfin
2. Mar 19, 2015 by  
stimmins

Submitter:	<u>User ID:</u> <b>eriks.puris</b> <del>stimmins</del>	<u>Phone:</u> <b>x7627</b> <del>7813</del>
Course Prefix	Geology (G)	
Course Number	202	
Course Type	Lower Division Collegiate	
Implementation Term	<b>Fall 2019</b> <del>201502</del>	
Course Title	<b>Earth Surface Processes</b> <del>Physical Geology</del>	
Transcript Title	<b>Earth Surface Processes</b> <del>Physical Geology</del>	

	<b>Lecture:</b> Meets <b>3</b> hours per week for <b>10</b> weeks. <b>Total</b> student academic engagement hours per quarter: <b>90</b>
Contact Hours per Quarter	<b>Lec/Lab:</b> Meets <b>0</b> hours per week for <b>10</b> weeks. <b>Total</b> student academic engagement hours per quarter: <b>0</b>
	<b>Lab:</b> Meets <b>3</b> hours per week for <b>10</b> weeks. <b>Total</b> student academic engagement hours per quarter: <b>30</b>
	<b>Total</b> student academic engagement hours for course: <b>120</b>
Credits	4
Please indicate the basis for creating this experimental course:	
Justification for change:	Revising title because G 201 and G 201 have identical course titles - update MTH prereqs
Does this course require a special additional fee set up through the bursar's office?	Yes
Special Fee Amount	\$12.00
Special Fee Code	T111
Special Fee	\$12.00
Course Is Repeatable	No
If this course is equivalent to other currently active course(s), please indicate	
If this course is mutually exclusive with other currently active course(s), please indicate	
If the SAC intends to allow this course to be co-scheduled with other currently active course(s), please indicate	
Grading Option(s)	Audit Letter Grade Pass/No Pass
Default Grading Option	Letter Grade
Course Description	Introduces physical geology which deals with mass wasting, streams, glaciers, deserts, beaches, groundwater, and use of topographic maps. Includes a weekly lab. Audit available.
Prerequisites	(WR <del>WR-115</del> , RD-115 and RD 115) MTH-95 or IRW 115 and (MTH 95 or MTH 98) or equivalent placement. placement-test scores.
Pre/Concurrent Courses	
Corequisites	
General Education/Discipline Studies Designation	

General Education  
Areas Satisfied      Mathematics, Science, Computer Science

#### Standard Prerequisites

Does this course need  
to opt-out of the  
standard  
prerequisites?      No

#### Cultural Literacy Designation

Does this course satisfy  
the Cultural Literacy  
Designation Criteria      No

#### Course Content and Outcome Guide (CCOG)

**Addendum to Course Description**      Physical Geology G202 is intended for both geology majors and non-majors, and is the second term of a year of beginning college geology. Physical Geology is concerned with earth materials and geologic processes acting on the earth. G202 deals mainly with surficial geologic processes. This course can be used to partly fulfill graduation requirements for the Associate Degree, and has been approved for block transfer. The text and materials have been chosen by the faculty and the emphasis of the course will be the viewpoint of the author(s). This includes the concepts of geologic time and the evolution of the Earth.  
Regarding the teaching of basic geologic principles (such as geologic time and the theory of evolution), the Portland Community College Geology Department stands by the following statements about what is science.

1. Science is a fundamentally non-dogmatic and self-correcting investigatory process. A scientific theory is neither a guess, dogma, nor myth. The theories developed through scientific investigation are not decided in advance, but can be and often are modified and revised through observation and experimentation.
2. "Creation science," also known as scientific creationism, is not considered a legitimate science, but a form of religious advocacy. This position is established by legal precedence (Webster v. New Lenox School District #122, 917 F.2d 1004).
3. Geology instructors at Portland Community College will teach the generally accepted basic geologic principles (such as geologic time

**Outcomes**      **Upon completion of the** ~~A student who successfully completes this~~ course **students** should be able to:

1. Use an understanding of landform characterization and classification to infer the geologic processes which formed specific landforms
2. Analyze how earth materials, uplift, subsidence, erosion, transport, deposition, climate, biological **activity**, ~~activity~~ and time interact to create landscapes.
3. Access earth science information from a variety of sources, evaluate the quality of this information, and compare this information with current models of earth surface **processes**, ~~processes~~ identifying areas of congruence and discrepancy.
4. Make field and **laboratory-based** ~~laboratory-based~~ observations and measurements of landforms and/or surface processes, use scientific reasoning to interpret these observations and measurements, and compare the results with current models of earth surface processes identifying areas of congruence and discrepancy.
5. Use scientifically valid modes of inquiry, individually and collaboratively, to critically evaluate the hazards and risks posed by flooding, slope processes and coastal erosion both to themselves and society as a whole, evaluate the efficacy of possible ethically robust responses to these hazards and risks, and effectively communicate the results of this analysis to their peers.
6. Assess the contributions of physical geology to our evolving understanding of global change and sustainability while placing the

**Aspirational Goals**

**Course Activities and Design**      The material in this course will be presented in a combination of lecture/discussion and laboratory exercises. Other educationally sound methods may be employed such as guest lectures, field trips, research papers, and small group work.

**Outcomes  
Assessment  
Strategies**

At the beginning of the course, the instructor will detail the methods used to evaluate student progress and the criteria for assigning a course grade. The methods may include one or more of the following tools: examinations, quizzes, homework assignments, laboratory write ups, research papers, small group problem solving of questions arising from application of course concepts and concerns to actual experience, oral presentations, or maintenance of a personal work journal.

**Course  
Content:  
Themes,  
Concepts,  
Issues and  
Skills**

1. Identify and classify the landforms associated with mass wasting, groundwater, streams, glaciers, deserts and shorelines
2. Understand how landforms are related to the processes of erosion, transport and deposition
3. Describe the materials that make up landforms associated with mass wasting, groundwater, streams, glaciers, deserts and shorelines
4. Examine weathering and the formation of soils (this topic may be covered in either G201 or G202 at the discretion of the instructor)
5. Develop an understanding of the kinds and origins of geologic structures (this topic may be covered in either G201 or G202 at the discretion of the instructor)
6. Examine the role of plate tectonics in shaping the surface of the Earth
7. Discuss hazards associated with mass wasting, groundwater, streams, glaciers, deserts and shorelines

Topics to be covered include:

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Course reviewer  
comments

Key: 3994