

Date Submitted: 01/17/19 5:10 pm

Viewing: **G 203 : Evolution of Planet Earth Historical Geology**

Last approved: 03/19/15 10:48 am

Last edit: 02/02/19 7:17 am

Changes proposed by: [eriks.puris](#)

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

#### 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

#### General Information

#### Approval Path

1. 01/18/19 12:55 pm  
eriks.puris:  
Recommended for G SAC Chair
2. 01/18/19 1:10 pm  
alyson.lighthart:  
Recommended for G SAC Administrative Liaison
3. 01/27/19 3:00 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	203	
Course Type	Lower Division Collegiate	
Implementation Term	<b>Fall 2019</b> <del>201502</del>	
Course Title	<b>Evolution of Planet Earth</b> <del>Historical-Geology</del>	
Transcript Title	<b>Evolution of Planet Earth</b> <del>Historical-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 the title making it more descriptive and adding a recommendation to the description. - 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 historical geology which deals with geologic time, fossils, stratigraphic principles, and the geologic history of the North American continent. Includes a weekly lab. <b>Recommendation: completion of G 201 or G 202 or GS 106. G201 or G202 or GS106 strongly recommended.</b> Audit available.
Prerequisites	( <del>WR WR 115, RD 115</del> and <b>RD 115</b> ) <del>MTH 95</del> or <b>IRW 115</b> and ( <b>MTH 95</b> or <b>MTH 98</b> ) or equivalent <b>placement. placement test scores.</b>
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**      Historical Geology is intended for both geology majors and non-majors, and is the third term of a year of beginning college geology. 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 sedimentary rock and fossil characterization and classification to infer the past environments recorded **in** ~~by~~ specific geologic areas.
2. Analyze how relative and absolute dating have been used to construct and refine the geological time scale.
3. Use their understanding of earth systems and biological evolution to explain major events in the geologic record.
4. Access earth science information from a variety of sources, evaluate the quality of this information, and compare this information with current models of earth **history**, ~~history~~-identifying areas of congruence and discrepancy.
5. Make field and **laboratory-based** ~~labatory-based~~ observations and measurements of landscapes, rocks and fossils, use scientific reasoning to interpret these observations and measurements, and compare the results with of current models of earth **history**, ~~history~~-identifying areas of congruence and discrepancy.
6. Assess the contributions of historical geology to our evolving understanding of global change and sustainability while placing the development of historical geology in its historical and cultural context.

## 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. Discuss the evidence supporting the theory of plate tectonics
2. Explore the geologic and fossil record for each of the major geologic eons and eras
3. Discuss the evidence supporting the theory of evolution
4. Describe and use the geologic time scale
5. Explore the basic concepts involved in radiometric dating
6. Discuss the principles used in relative dating
7. Examine common invertebrate fossils

Topics to be covered include:

1. Plate Tectonics (may be covered in G201)

**Course reviewer  
comments**

Key: 3995