

Clackamas Community College Checklist for Creating ACC Class Syllabi

(These items are required for ACC articulated courses; additional info. may be included)

Course Data	<input type="checkbox"/> Course Titles (Both high school title and CCC title) <input type="checkbox"/> Course Prefix & Number (Both high school and CCC) <input type="checkbox"/> Credits (Both high school and CCC) <input type="checkbox"/> Year
Instructor Information	<input type="checkbox"/> Instructor Name <input type="checkbox"/> Email Address <input type="checkbox"/> Phone <input type="checkbox"/> Course Website or URL (if applicable) <input type="checkbox"/> ACC Website – http://depts.clackamas.edu/acc
Course Outline Information (extracted from departmental course outline)	<input type="checkbox"/> Course Description <input type="checkbox"/> Course Objectives <input type="checkbox"/> Course Prerequisites <input type="checkbox"/> Student Learning Outcomes (These should include the learning outcomes from the college outline and any other add'l outcomes for your course that is above and beyond the college course - e.g. what do you want students to know or be able to do by the time they finish your course?)
Required Course Materials	<input type="checkbox"/> Textbooks/Readings <input type="checkbox"/> Supplies (Optional)
Grading Criteria	<input type="checkbox"/> Grading Scale & explanation of how college grade will be calculated if different from high school grade. <input type="checkbox"/> Exams and Relation to Grade <input type="checkbox"/> Quizzes and Relation to Grade <input type="checkbox"/> Homework and Relation to Grade <input type="checkbox"/> Projects and Relation to Grade <input type="checkbox"/> Class Participation and Relation to Grade
Class Policies	<input type="checkbox"/> Attendance Requirements and Relation to Grade <input type="checkbox"/> Reference to Student Handbooks –“Because this class is a dual credit class, earning high school and college credit, you are held to student conduct policies for the high school and Clackamas Community College. Please refer to the HS Student Handbook and the College Handbook (http://www.clackamas.edu/documents/handbook.pdf)
Course Schedule by Week	<input type="checkbox"/> Week 1 – 11 Activities/Topics <input type="checkbox"/> Tests/Quizzes <input type="checkbox"/> Final Exam <input type="checkbox"/> Assignments Due <input type="checkbox"/> Projects Due

You are free to format your syllabus however works best for you and your students. Below is simply one example.

Honors Geology Syllabus 2011

ACC Credit Available

Course Information:

Department: Science
Course Title: Honors Geology/General Geology
Length of Course: Two trimesters

Course Number: 1702/G101/G102

No. of Credits: 1.0/4.0/4.0

Grade Level(s): 11th - 12th

Instructor Information:

Instructor: Chris Hedeem
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Phone: 503.785.8828

ACC Website: <http://depts.clackamas.edu/acc>

Course Description:

Geology: Landforms. This course serves as an introduction to geological processes and concepts, earth's structure, plate tectonics and the resulting landforms. Embedded within earth's structure topics are basic chemistry, mineral resources within the rock forming and economic (ore) minerals, and the environments of formation and classification of rocks within the context of the rock cycle. Mountain building, volcanoes and volcanic landscapes are emphasized.

Geology: Natural Hazards. This course emphasizes the relationship between volcanoes, earthquakes and plate tectonics. Emphasized regularly, and an underlying current throughout the course, is the relevance and importance of recognizing and preparing for geologic hazards. The study of streams and stream morphology, mass wasting and slope stability (landslides), groundwater, glaciers, fossils and climate change are included within earth's history.

The associated lab exercises lead to the development of skills as applied to mapping, sampling and collection of field data. They are based on the pragmatics of map use and interpretation, including topographic and geologic maps, satellite imagery and landform studies. The exercises tie together the concepts of the course through practical application of knowledge and included 90 different minerals, ores and rocks.

Course objectives:

The objective of this course is to provide the student with an understanding of the origins and evolution of the planet, as well as a basic understanding of the materials that make it up. The second term of the course emphasizes the different global geographic environments. The theme of this term is the geomorphology of global surface features and how they evolve through time with an emphasis on recognition of geologic hazards associated with each.

Prerequisite(s):

Chemistry or concurrent with chemistry

Student Learning Objectives:

Upon the successful completion of this course the student will be able to:

- Explain the formation of the Earth from a solar nebula
- Describe the internal structure of the earth and the evidence for that structure
- Describe the development of the theory of plate tectonics
- Explain current understanding of plate tectonics and its relevance to modern geology
- Describe the interactions of tectonic plates and the implications of plate boundaries
- Differentiate and identify minerals and rocks
- Explain rock formation with relation to the rock cycle and plate tectonics
- Differentiate between igneous, sedimentary and metamorphic rocks.
- Describe the composition of the Earth:
 - Minerals: structures, compositions, classification,
 - Igneous Rocks: Textures, magmas, classification, plate tectonics
 - Volcanic and Plutonic Activity: Types and compositions, landforms, magmas, plate tectonics
 - Volcanic Hazards: Proximal and distal hazards, current events, current threats,
 - Weathering and Soil: Mechanical and chemical weathering processes, soil formation, soils, soil properties
 - Sedimentary Rocks: Erosion, transport, sediments, rocks formation, classification, sedimentary environments
 - Metamorphic Rocks: Types of metamorphism, metamorphic rocks and origins, tectonic setting and metamorphic environments

- Describe the major external processes at work on the Earth: mass wasting, groundwater, streams, shorelines and glaciers
- Explain environmental problems and hazards associated with
 - landforms
 - mass wasting
 - streams
 - groundwater
 - glaciers
 - shorelines
- Use geologic and topographic maps to understand the terrain and geologic features of an area
- Explain what the geologic time scale is, how it was developed and be able to reproduce it
- Explain how radiometric dating is used and the science behind it
- Explain the evolution of the Earth's surface throughout geologic time
- Demonstrate the concepts and principles of geologic time: history of the Earth, fossils and fossilization, principles of age determination, time scale

Required Text/Instructional Materials: The Changing Earth, Exploring Geology and Evolution, 4th ed., Monroe & Wicander; Thomson, Brooks/Cole

Supplemental Texts:

Alt, D. and D.W. Hyndman. Northwest Exposure A Geologic Story of the Northwest. Missoula: Mountain Press Publishing Company, 1995.

Grading Criteria:

There is a tremendous proportion of your grade that is determined by performance on tests. Daily participation, active learning and proper preparation are keys to success in earning your grade in Geology:

Evaluation			
91.5 - 100%	A	71.5 - 77.4%	C
89.5 - 91.4%	A-	69.5 - 71.4%	C-
87.5 - 89.4%	B+	67.5 - 69.4%	D+
81.5 - 87.4%	B	61.5 - 67.4%	D
79.5 - 81.4 %	B-	59.5 - 61.4%	D-
77.5 - 79.4%	C+	0 - 59.4%	F

Categories:	
Tests & Quizzes	65%
Activities/Labs/Homework/Projects	25%
Essential Skills/Participation	10%
Grading:	
Term Grade	80%
Final	20%

Class Policies:

Absences

Regular attendance is the best assurance of receiving the information you need to be successful in class. If you are absent for any reason you are responsible for communicating with another student to find out what you missed. If there are still questions about notes or assignments, please communicate with the teacher. You are responsible for all material and content that you missed while absent. All missed work must be completed within one week from the day you returned from your absence, the exception being an extended absence.

Late Work

Partial credit (50%) will be given for all work that is turned in late. There will be no credit given for work that turned in after each 6 week grading period.

Tardiness

Every class will begin when the bell rings. Students are expected to be in the room and at his/her seat when the bell rings. (See OCHS tardy policy) To ensure this occurs, graded bell quizzes will be given on a regular basis. Only those students to class on time will be permitted to complete these quizzes. Quizzes cannot be made up if they are missed. These scores will count in the Essential Skills category.

Dual Credit

Because this class is a dual credit class, earning high school and college credit, you are held to student conduct policies for the high school and Clackamas Community College. Please refer to the Oregon City Code of Conduct as well as the College Handbook (<http://www.clackamas.edu/documents/handbook.pdf>)

Course schedule:

Week	Topic/Activities	Homework/Assignments/Assessments
1	Course introduction/geology concepts/Earth's origins	Unit Guide #1 Early Earth quiz
2	Earth's internal structure	Exam 1
3	Plate Tectonics	Unit Guide #2 DPB Essay
4	Plate Tectonics	Exam 2
5	Chemistry review/Minerals Introduction	Unit Guide #3 Mohs Minerals Quiz
6	Rock Forming Minerals	Rock Forming Mineral Exam
7	Igneous Rocks	Unit Guide #4
8	Igneous Rocks	Igneous Rock Exam
9	Weathering and Sediments	Unit Guide #5 Sediments Lab
10	Sedimentary Rocks	Unit Guide #6 Sedimentary Rock Exam
11	Metamorphic Rocks	Unit Guide #7 Metamorphic Rock Exam
12	End of Trimester Final	Course Final Exam with Lab Practical
1	Maps/Mapping/GPS	Mapping Practice
2	Maps/Mapping/GPS/Geologic Maps	Mapping Exam
3	Volcanoes/Volcanic Hazards	Unit Guide #8 Volcano Lab Volcanic Hazard Project
4	Volcanic Hazards	Volcano Exam
5	Earthquakes/Plate Tectonics	Unit Guide #9
6	Earthquakes/Earthquake Hazard	Earthquake Preparedness Plan
7	Hydrology – Streams/Groundwater	Unit Guide #10
8	Hydrology – Streams/Groundwater	Stream Tables Lab Groundwater Lab Hydrology Exam
9	Coasts and Oceans	Unit Guide #11 Oceans Quiz
10	Glaciology	Unit Guide #12 Glaciers Quiz
11	Climate and Climate Change	Carbon Connections Journal
12	End of Trimester Final	Course Final Exam