

**HAGERSTOWN COMMUNITY COLLEGE
MASTER SYLLABUS**

COURSE: PHS 107 INTRODUCTORY PHYSICAL GEOLOGY – Non-laboratory 3 Credits

INSTRUCTOR: Christopher Burch, Annitsa Spanos

COURSE DESCRIPTION: This earth science course includes rocks and minerals, weathering and erosion, surface and groundwater, geologic time, plate tectonics, earthquakes and volcanoes, mountain building, glaciers, and shorelines. Local, regional, national, and global examples are used to demonstrate geological principles and environmental and human health applications. No prerequisite for PHS 107 – non-laboratory course. Semester offered: Fall, Spring. 3 Credits.

TEXTBOOK:

Earth: An Introduction to Physical Geology; 12th ed., by Frederick K. Lutgens, Edward J. Tarbuck, and illustrated by Dennis Tasa / Pearson, Prentice Hall. 2014. ISBN-13: 978-0-13-407425-2

Hazard City. 5/E. Access Code Card. by Pearson. 2013. ISBN: ISBN-13: 978-0-321-970343

STUDENT LEARNING OUTCOMES:

At the completion of this course, students should be able to:

1. Demonstrate knowledge of the scientific method by investigating and solving real-world geologic problems.
2. Discover the role of the various spheres of our earth’s system and learn how the interactions between these components and the composition of the earth affect the world around us.
3. Use technology to learn about geological processes and monitor real-time events such as volcanoes, earthquakes, and floods.
4. Apply course content to environmental and human health related issues (e.g. earthquakes, volcanoes, and air and water pollution.)
5. Access, process, analyze and synthesize scientific information.

TOTAL HOURS OF COURSE WORK EXPECTED:

Credit Hour to Clock Hour Calculation (for 3 credit course)

Direct Faculty Instruction: One hour Instruction/week/credit

$(50 \text{ min} * 15 \text{ weeks}) \div 60 \text{ min/h} = 12.5 \text{ h/credit} * 3 \text{ credits} = 37.5 \text{ hours}$

Student work out of classroom: (Two hours per credit per semester)

$(2 * 50 \text{ min} * 15 \text{ weeks}) \div 60 \text{ min/h} = 25 \text{ h/credit} * 3 \text{ credits} = 75.0 \text{ hours}$

	Direct Faculty Instruction (in-Class)	Student work outside of class
“Lecture” time	37.5 h	
3 Lecture Exams		6 h (taking exams)
Prep time LSC/Home		21 h (exam prep)
5 - 10 quizzes	(included in lecture time)	9 h (quiz prep)
Comprehensive Final Exam	(Included in lecture time)	9+ h Final exam prep (review notes/group study)
Homework Assignments (online and written)		30+ h
Total Hours	37.5 h	75 h+
TOTAL	112.5+ hours	