

**Hagerstown Community College  
Course Outcomes Guide**

**COURSE:** ONLINE – Distant Learning  
PHS-113/113L - AMS Ocean Studies, 4 credits  
**INSTRUCTOR:** Annitsa Spanos  
**SEMESTER/YEAR:** Spring 2017

**STUDENT LEARNING OUTCOMES:**

Upon completion of Ocean Studies for Physical Science, students will

1. Relate a basic core of scientific principles to real-world environmental data
2. Demonstrate observational and analytical skills using real world data provided by the AMS
3. Formulate conclusions based on observations and information
4. Use technology to access scientific information, generate and analyze empirical data, and solve problems

**Assessment (How do or will students demonstrate achievement of each outcome? Please attach a copy of your assessment electronically.)**

1. In-class exams and quizzes with combination of multiple-choice, short answer, and essay.
2. Group project
3. Various homework assignments.
4. Comprehensive final exam.

**Validation (What methods have you used or will you use to validate your assessment?)**

We offer only one section of this course so we have only been using our standard exams.

**Results (What do your assessment data show? If you have not yet assessed student achievement of your learning outcomes, when is assessment planned?)**

This is the first time we are reporting any data for this course. We are still working on the process.

**Follow-up (How have you used or how will you use the data to improve student learning?)**

Instructors will use the detailed analysis of the exams to help improve their teaching styles and content delivery for the course.

**Budget Justification (What resources are necessary to improve student learning?)**

We will need resources to purchase any standardized exams we decided to use.

Gen Ed Course	Avg % on Gen Ed Skills	Avg % on Final Exam	Gen Ed Assessment	Avg GPA	16SU, 16/FA &17/SP Active	16/SU, 16/FA &17/SP Complete	16/SU, 16/FA &17/SP Success	F/U	Withdrawal
PHS 113	80.5	96.4	5 Question PHS	2.29	14	10	10	4	0