Hagerstown Community College
MASTER SYLLABUS

COURSE: ENV 202 **TITLE:** Fundamentals of Environmental Science II
INSTRUCTOR: Dr. Rebecca Beecroft **SEMESTER/YEAR:** Spring 2018

Meeting Times: **Independent Study**
Lecture – online
LAB –Thursday, 10:00-12:15, STEM 201

Office Hours: Monday, Tuesday, Wednesday 2:20 PM – 4:00 PM

COURSE DESCRIPTION:
ENV 202 is a continuation of ENV 201. It is required for all Environmental Studies majors pursing the Environmental Science area of concentration. This course builds on the fundamental concepts learned in ENV 201, with specific focus on energy, earth systems and human resource utilization. Students will explore interactions between humans and earth's abiotic resources, including topics such as natural resource mining, renewable and non-renewable resources, energy production, hydrologic resource use and associated global environmental impacts. Human-induced environmental issues such as global climate change, non-renewable resource consumption and toxic and solid waste production will be examined, as well as related governmental policies around these issues. Concepts will be explored within a social framework that includes the social and cultural construct of environmental issues and different points of view. Laboratory fee required. 45 hours of lecture and 45 hours of lab.

TEXTBOOK: ENVIRONMENTAL SCIENCE: A GLOBAL CONCERN, 14th Edition with Access Code for CONNECT
AUTHOR: CUNNINGHAM
ISBN: 9780073532547
EDITION: 14th
COPYRIGHT: 2018

STUDENT LEARNING OUTCOMES:
1. Exhibit the ability to use core content in the Environmental Science curriculum.
2. Appreciate that Science is a process, a method of learning about the world and that as science changes, the way we understand the world changes too.
3. Demonstrate transfer of information from diagrams and research models to real world settings.
4. General Education: Demonstrate the ability to access, process, analyze and synthesize scientific information.
   a. Relate a basic core of scientific principles to an open-ended framework
   b. Demonstrate observational and analytic skills in a structured situation.
   c. Formulate conclusions based on observations and information.
   d. Use technology to access scientific information, generate and analyze empirical data, and solve problems.

TOTAL HOURS OF COURSEWORK for 15-week Course:
To earn one academic credit at HCC, students are required to complete a minimum of 37.5 clock hours (45 fifty-minute "academic" hours) of coursework per semester per credit. Those hours of coursework may be completed through a combination of hours within the classroom and hours outside the classroom. Certain courses may require more than the 37.5 minimum hours of coursework per credit. For this particular class, a 15-week 3 credit class the average student would expect to work 9 fifty-minute "academic" hours per

week (or 7.5 hours per week). Some students may need more and some students may need less for this online course.

MINIMUM CLOCK HOURS REQUIRED FOR THIS COURSE

Component of Course	DIRECT Faculty Instruction In Class/Lab	Student Work Out of Classroom	Total Hours/Semester Outside of Class
Lecture	**37.5 hours**		
Quizzes		**2 hours/lecture**	**60 hours/semester**
Unit Exams - 4		**10 hours/exam**	**40 hours/semester**
Cumulative exam		**7 hours/exam**	**7 hours/semester**
Online Assignments		**2 hours/week**	**30 hours/semester**
Case Studies - 5		**3 hours/case**	**15 hours/semester**
Laboratory	**37.5 hours**		
Pre-lab Preparation		**1 hour/lab**	**15 hours/semester**
Post-lab Reports		**1 hour/lab**	**15 hours/semester**
Unit laboratory quizzes - 4		**2.5 hours/quiz**	**10 hours/semester**
Laboratory Final Exam		**10 hours/lab exam**	**10 hours/lab exam**
Total	**75 hours**		**202 hours**

Assessment	Points
Lecture	
CONNECT LearnSmart (10 points each)	110 points
11 Weekly Online Quizzes (20 points each)	220 points
Midterm Exam	100 points
Cumulative Final Exam	100 points
Investigative Activities (10 points each)	60 points
Laboratory	
Lab Notebook	110 points
Final Poster Presentation	100 points
Total Points	800 points
A = 720 - 800 points B = 640-720 points C = 560-640 points D = 480-640 points F = Below 480	

*****The instructor reserves the right to modify the syllabus/course guidelines, point values, topic outline and assignments, including dates, as deemed necessary*****

Services for students with disabilities: Students may receive reasonable accommodations if they have a diagnosed disability and present appropriate documentation. Students seeking accommodations are required to contact the Disability Support Services (DSS) office as early as possible. Students may contact a DSS staff member for an appointment at dss@hagerstowncc.edu or at 240-500-2530.