

Environmental Science BIOL 124 Course Outcome Guide (COG)

Course:	BIOL 124 Environmental Science	Credits:	4	Date Updated	April 2016
Course Description:	Study of the effect of man's activities upon the environment in which he lives. Topics include general ecology, biomes, and environmental problems. Lab experiments and exercise in Environmental Science. 1. Understanding basic principles of Natural Resource Management. 2. Understand the human cause of current environmental problems and possible solutions. 3. Population demography. 4. Substance practices. 5. Applying principles of ecology that are associated with the study of the environmental science. 6. Learn to apply critical thinking in environmental science. 7. Using the scientific method of inquiry to inform environmental science perspectives. Co-requisite BIOL 124L Environmental Science Lab				
Concepts and Issues	Process Skills	Assessment Tasks	Intended Outcomes		
			Course	General Education or Program	Institutional
1. Basic ecology concepts 2. The role of humans in the environment. 3. Ecology and selected Biomes.	Describe carrying capacity and productivity. Describe the biogeochemical cycles and their importance in the biosphere. Discuss the growing human population and the effect on the environment. Describe how the human footprint can be mitigated. Describe various ecosystems and recognize and describe common organisms found in each and their uses. Be able to classify the organisms. Describe how their structure	1. Complete assignments of readings and worksheets, lab worksheets("portfolio"), term paper, study guides, movies and worksheets. 2. Lecture and lab quizzes. 3. Lecture and lab exams with objective and subjective questions. . 4. Lab attendance and participation.	1. Demonstrate the safe appropriate use of scientific instruments. 2. Differentiate factual information from opinion and pseudo-science by practicing methods used by biological scientists 3. Practice the application of biological information to solve problems and in life (personal and professional). 4. Practice the application of	1. Students will use reasoning skills to analyze and solve problems.	1. Students will use reasoning skills to analyze and solve problems.

	<p>relates to the function in their habitat.</p> <p>Describe various ecosystems management strategies.</p>		<p>biological information in upper level classes</p>		
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