



<b>Course Number</b>	ES 112
<b>Course Name</b>	
<b>Credit Value (Breakdown of theory and lab credits)</b>	3 Theory
<b>Catalog Course Description</b>	You will study environmental science through the structure and function of ecosystems and the various levels of living organisms. You will define and analyze ecological principles which determine the sustainability of ecosystems, including energy use, nutrient recycling, balance, natural resources, resilience, and biodiversity.
<b>Student Learning Outcomes/Objectives /Competencies of the Course</b>	<ol style="list-style-type: none"> <li>1. Students will develop a general understanding of the basic assumptions, effectiveness, and limitations of theories and strategies used in various fields of environmental science.</li> <li>2. Students will develop basic analytical problem-solving and critical thinking skills and will gain experience in data interpretation and graphical and mathematical models.</li> <li>3. Students will develop a general appreciation for the challenges and opportunities inherent in environmental science.</li> <li>4. Students should be able to discuss theory and applications of environmental science topics including: biotic and abiotic factors, population and communities, energy cycles, renewable energy and sustainability, environmental monitoring, climate</li> <li>5. Students will improve communication skills, computer skills, teamwork skills, critical thinking/problem solving skills, and statistical skills.</li> <li>6. Provide each student with a knowledge base which will promote opportunities for pursuing employment opportunities in the environmental science field</li> <li>7. Conduct scientific literature searches for reports and discussions</li> <li>8. Provide an opportunity for students to discuss current management issues, including diverse cultural issues involved in decision making in environmental science.</li> </ol>
<b>College-Wide Student Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. <i>Cultural Competence</i> <i>Cultural Competence will be assessed by assignments related to investigating different cultures adaptations to a changing climate.</i></li> </ol>