

COURSE SLO ASSESSMENT REPORT, SCC

Department: Water Utility Science Course: 112

Year: 2013 Semester: Spring

1) Outcome to be assessed	2) Means of assessment and criteria of success	3) Summary of data collected	4) Analysis of data	5) Plan of action/what to do next
<p>Upon completion of Water 112, students will be able to:</p> <ol style="list-style-type: none"> 1. Accurately describe the elements included within the activated sludge process and subsequent decomposition rates. 2. Be able to analyze and make adjustments to unit processes to remain in compliance with regulations. 	<p>Key questions on the quizzes, mid-term exam, and the final exam related to the outcomes being assessed.</p>	<p>Overall final grades for the class are: A – 38% B – 34% C – 24% D - 3% F- 3%</p> <p>Key questions on the quizzes and exams final exam were used to identify if students understood core components of the instruction related to the outcomes accessed</p>	<p>Even though the overall class grades were good the data indicated the following:</p> <p>10 to 20% of students struggled to recognize key differences between the activated sludge process and other major wastewater treatment processes (e.g. preliminary treatment, primary treatment, anaerobic sludge digestion).</p> <p>The majority of students struggled with the biological terms and concepts associated with the activated sludge process. Also, approximately 25% of the students struggled with basic wastewater math formulas</p>	<p>To assure more students attain the knowledge level desired related to the current SLOs, the first few class sessions should be devoted to preliminary and primary treatment as well as development of basic wastewater math concepts.</p> <p>The SLOs for this course should be modified to focus on a broader understanding of activated sludge theory and anaerobic sludge digestion.</p>

			and concepts. These limitations impacted the student's ability to master process control abilities.	
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STUDENT LEARNING OBJECTIVES:

- 1. Accurately describe the elements included within the activated sludge process and subsequent decomposition rates.*
- 2. Be able to analyze and make mathematical adjustments to unit processes to remain in compliance with regulations.*