

Unit Assessment Report - Four Column

Ventura College

Program (CTE) - Water Science

Program Description: The WS program provides students with the technical training they need to pursue a career in the municipal potable water and wastewater industries. Waterworks operators protect public health by ensuring that plant operations comply with state and federally mandated drinking water and wastewater disposal standards. Students seeking an Associate's Degree in Water Science may choose the Water option to prepare them for a career in potable water treatment or the Wastewater option to prepare them for a career in wastewater sanitation. Regardless of the option chosen, both paths lead to rewarding careers protecting the health of both the community and the environment at local, state, and federal levels.

| PSLOs | Assessment Methods & Performance Target / Tasks | Findings | Initiative & Closing the Loop |
|---|--|--|---|
| <p>Program (CTE) - Water Science - PSLO-1 - Analyze the fundamentals of chemistry, biology and hydraulics, as they relate to the water industry.</p> <p>PSLO Assessment Cycle: 201303 (Spring 2013)</p> <p>Start Date: 01/21/2013</p> <p>PSLO Status: Active</p> | <p>Assessment Tool: Multiple choice and fill-in written exam.</p> <p>Assessment Type: Exam/Quiz - In Course</p> <p>Performance Target: 80% of students will score at a C level or better.</p> | <p>03/18/2013 - 96% (24/26) of students passed an exam on the fundamentals of chemistry, biology and hydraulics as related to the water industry in WS V21</p> <p>Target Met: Yes</p> <p>Reporting Period: 201303 (Spring 2013)</p> <p>Suggestions from Faculty: No change to program at this time.</p> | |
| <p>Program (CTE) - Water Science - PSLO-2 - Analyze the principles involved in the treatment, processing and distribution of potable water.</p> <p>PSLO Assessment Cycle: 201307 (Fall 2013)</p> <p>Start Date: 08/26/2013</p> <p>PSLO Status: Active</p> | <p>Assessment Tool: Exam</p> <p>Assessment Type: Exam/Quiz - In Course</p> <p>Performance Target: 70% or students will perform at a C level or higher</p> | <p>12/12/2014 - 71% of students reached goal.</p> <p>Target Met: Yes</p> <p>Reporting Period: 201407 (Fall 2014)</p> <p>Suggestions from Faculty: Students should be exposed to more math problems.</p> <p>Modality: Face to Face</p> <p>Total # of students assessed: 24</p> <p>Total # of students meeting target: 17</p> <p>Total % of students meeting target: 71</p> | <p>12/12/2014 - Expose students to more math problems during class time.</p> <p>Resources Required: No</p> |
| | | <p>12/19/2013 - 20/24 students (83%) met the target level in WS V12.</p> <p>The students were given a pre-test at Week 2 and only 24% passed the test. They were re-tested with a surprise exam at Week 12 and 83% passed. Method of teaching led students to exceed my goal.</p> <p>Target Met: Yes</p> <p>Reporting Period: 201307 (Fall 2013)</p> | <p>12/19/2013 - Ask students who succeed at the state certification exam for a copy of their certificates. Mount these on the walls to help motivate students towards success.</p> <p>Resources Required: No</p> |

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| | | <p>Suggestions from Faculty: Continue using the pre-test, post-test methodology.</p> <p>Related Documents: PSLO Rubric Water Science.docx</p> | |
| <p>Program (CTE) - Water Science - PSLO-3 - Evaluate the collection and treatment of waste water.</p> <p>PSLO Assessment Cycle: 201607 (Fall 2016)</p> <p>Start Date: 08/25/2014</p> <p>PSLO Status: Active</p> | | | |
| <p>Program (CTE) - Water Science - PSLO-4 - Understand the state licensing requirements for employment in the water industry.</p> <p>PSLO Assessment Cycle: 201507 (Fall 2015)</p> <p>Start Date: 08/24/2015</p> <p>PSLO Status: Active</p> | | | |