

## 2008- 2009 Outcomes Assessment PHYSICS / PHYSICAL SCIENCE

Purpose Statement: The purpose of the Physics/Physical Science Department is to facilitate college transfers, promote occupational preparation, enhance vocational training, and provide opportunities for students and communities to enrich their lives by utilizing traditional and modern technological approaches.

| Goals  | Intended Outcomes  | Assessment Criteria/Procedures   | Assessment Results   | Use of Results   |
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| <p>To enhance students' abilities to demonstrate critical thinking and problem solving skills by processing, analyzing and evaluating information.</p> <p>To develop students' scientific reasoning skills through the demonstration of applications of course specific principles and concepts, and application of the scientific method.</p> | <p>Students will gain an understanding of basic principles and concepts of physical science/physics.</p> | <p>Physics Faculty will attend at least one professional development during the academic year to promote awareness of current instructional trends and best practices.</p> <p>90% of students in physics and physical science class will be able to successfully set up and complete a computer based lab.</p> <p>90% of physics/physical science students will successfully use EXCEL as a presentation tool for data collected in lab.</p> | <p>-attended a WebEx with Addison –Wesley concerning an alternate homework solution- Mastering Physics- for potential use in physics courses.</p> <p>- laboratory average of 75% of physics/physical science students was 85% or above for computer based labs.</p> <p>-75% of physics students successfully used EXCEL as a presentation tool for data collected in lab as evidenced by</p> | <p>Comparing and contrasting of physics homework solutions (Mastering Physics vs. WebAssign) specifically in PHY 201/202 by using both in this terms PHY 201 section.</p> <p>-Increase to 90% by incorporating specific questions, in each computer based lab, dealing with the set up of such lab.</p> <p>-Increase to 90% by developing a specific EXCEL task lab and incorporating EXCEL based questions into</p> |

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|  |  |  | averages of 75% or above on labs dealing with EXCEL. | each lab. |
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