



Planning and Evaluation Tracking

College Year: **2008 - 2009**

Division of: **Sciences & Engineering**

Person Responsible: **Jack Stanley**

Department of: **Biology**

Person Responsible: **Michael Kopenits**

Purpose Statement: Provide academic preparation for careers and education goals and to increase awareness and relevance of Biology.

Goal Statements	Objectives/Outcomes (including assessment tools and standards)	Results	Use of Results (including improvements and revisions)
1. Use critical analysis and scientific reasoning	<p>1. a) Upon completion of the Microbiology course, 90% of the students the completing the course will analyze and correctly identify a sample of an unknown bacteria.</p> <p>1. b) Biology majors will demonstrate critical analysis by correctly answering a minimum of 70% of the embedded questions on the final exam. (Created 9/08)</p> <p>1. c) Anatomy & Physiology students will demonstrate critical thinking and scientific reasoning skills by completing appropriate case studies related to individual and / or related body systems.</p>	<p>1. a.) Fall 2007 & Spring 2008 89.0% of all students who completed the course correctly identified their unknown bacterium. Fall: $137 / 160 = 85.6\%$ Spring: $162 / 176 = 92.0\%$ Total: $299 / 336 = 89.0\%$</p>	<p>1. a.) Fall 2007 & Spring 2008 ANALYSIS: Fall semester was below goal due to two significant reasons. 1. Dr. Dolby had one section (class) that did very poorly throughout the entire semester - 26% did not correctly identify the unknown. 2. Samuel Schwarzlose's first semester of teaching Microbiology was the fall of 07. His fall % was 77% correctly identifying the unknown. He increased student performance to %95 in the spring of 08.</p> <p>PLAN OF ACTION: Continue with current evaluation process.</p>

<p>2. Increase student success and student demonstration of awareness and relevance of biology for future goals and / or career choices.</p>	<p>2.a) a) ADN students b) Students progress from A&P I to A&P II. c) Administer a Pre/Post survey. d) 90% of students pass the Post A&P survey with a 70. e) 15-20 questions embedded in every fina (Revised 09/08 - see below)</p> <p>2. a.) Upon completion of the selected course (Botany, Zoology, Life Science, Genetics, Majors Biology and/or Microbiology) students will demonstrate competency by correctly answering a minimum of 70% of the embedded questions on the comprehensive final exam. (Revised 9/08)</p> <p>(Created an additional outcome 09/08 - see below)</p> <p>2 b) Anatomy and Physiology students will be given a pre-test at the beginning of each course section and will demonstrate competency by correctly answering 70% of the questions on the comprehensive post test prior to the final examination.</p>	<p>2. Fall 2007 & Spring 2008 a.) No data collected</p>	<p>2. a.) Fall 2007 & Spring 2008 ANALYSIS: Biology faculty members determined that this outcome should be revised before assessing it.</p> <p>PLAN OF ACTION: Close out previous 2 a.) outcome after 2007-2008 and replace with the revised 2 a.).</p>
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3. Provide current technology in a safe learning environment.	3. a) All lab students b) Demonstrate safe lab techniques, access safety equipment and current technology. c) Gain safety skills to insure safe labs. e) HAPS, ASM, Mortuary Science Standards and OSHA.	3. 2007-2008 No data collected	3. 2007-2008 No analysis or plan of action due to no data collected. ANALYSIS: Biology faculty members determined that this outcome should be eliminated because assessment. Close out goal and outcome after 2008-2009.
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revised 8/1/05