

Department: Molecular Biology and Microbiology  
 Chair: Dr. Robert Gennaro  
 Participating Faculty: Dr. Charba, Dr. Gennaro, D. Hitchcock, Dr. Sweeney

## Program Name & CIP Code: 26.0501 Level: BS-Molecular Biology and Microbiology

Example of Linkage between Expanded Statement Of Institutional Purpose,  
 Departmental/Program Intended Outcomes/Objectives, Assessment Criteria and Procedures,  
 Results, and Use of Results at our University

Expanded Statement of Institutional Purpose	Departmental/Program Intended Outcomes/objectives	Assessment Criteria & Procedures	Assessment Results	Use of Results
<p>UCF is a metropolitan university committed to providing the finest undergraduate education in Florida, achieving international prominence in key graduate educational and research programs, promoting a global perspective, fostering inclusiveness and diversity, and becoming America's leading partnership university.</p> <p>Provide a quality undergraduate education in molecular biology and Microbiology.</p> <p>Graduates of the baccalaureate program in Molecular Biology and Microbiology will develop an in-depth understanding of the field to afford them the opportunity for employment or further graduate education.</p>	<p>1. Graduates will be able to demonstrate knowledge in biochemistry and cell biology.</p> <p>2. Graduates will be able to demonstrate knowledge in molecular biology.</p> <p>3. Students will be able to demonstrate their ability to perform routine laboratory procedures and communicate their results.</p>	<p>1a. The average score of on the GRE Biochemistry Subject Test will be at or near the 50th percentile compared to national results.</p> <p>1b. The average score of on the GRE Cell Biology Subject Test will be at or near the 50th percentile compared to national results</p> <p>2a. The average score of on the GRE Molecular Biology Subject Test will be at or near the 50th percentile compared to national results.</p> <p>2b. Faculty from the area of molecular biology will review a sample of final exams of graduates taking the Molecular Biology II course to access the level of knowledge in molecular biology.</p> <p>3a. Ninety percent of a sample of lab reports will be evaluated by a faculty committee to determine if students have demonstrated mastery of selected lab skills(electrophoresis, column chromatography, enzyme digestion, radio labeling, and immuno assay) and communication of results in accordance with standards of the discipline.</p> <p>3b. Eighty percent of students will rate themselves as "satisfactory" or "above satisfactory" when asked to evaluate their abilities on an Exit survey.</p>	<p>1a. All intent to graduate students offered chances to take subject test at no cost. Test will be administered in March. Data will be evaluated by faculty upon receipt of scores.</p> <p>1b. The tests were administered in March. Results will be analyzed by the faculty upon receipt of scores.</p> <p>2a. The tests were administered in March. Results will be analyzed by the faculty upon receipt of scores.</p> <p>2b. Faculty established criteria and completed assessment in April. Fifty percent of students demonstrated "satisfactory" to "above satisfactory" knowledge.</p> <p>3a. Random samples of laboratory reports were evaluated by select faculty. Ninety-five percent of the students demonstrated mastery of the respective laboratory skills and fifty percent demonstrated ability to communicate result.</p> <p>3b. Students were sent surveys by the Chair during Spring 1997. Results indicated that ninety-one percent of students rated their abilities at "satisfactory" to "above satisfactory."</p>	<p>1a. Results will be used to evaluate need for curriculum changes. Evaluation pending receipt of test scores.</p> <p>1b. Results will be used to evaluate need for curriculum changes. Evaluation pending receipt of test scores.</p> <p>2a. Results will be used to evaluate need for curriculum changes. Evaluation pending receipt of test scores.</p> <p>2b. Target met. Results were used to evaluate need for curriculum changes. No changes recommended. Continue to monitor.</p> <p>3a. Target met. Results were used to evaluate need for curriculum changes. Recommended change will be to review writing skills in laboratory .</p> <p>3b. Target met. Results were used to evaluate need for curriculum changes. No recommended change. Continue to monitor.</p>