

**Program Name & CIP Code: 26.05051 Level: MS-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 graduate education in Molecular Biology and Microbiology. Graduates of the MS program in Molecular Biology and Microbiology will develop sufficient in-depth knowledge to conduct research.</p>	<ol style="list-style-type: none"> <li>1. Graduates will demonstrate their ability conduct independent research.</li> <li>2. Graduates will demonstrate their ability to write and communicate effectively.</li> <li>3. Graduates will be able to demonstrate competency in the following areas of knowledge: General Microbiology, Medical Microbiology and Molecular Biology.</li> </ol>	<ol style="list-style-type: none"> <li>1. Ninety percent of graduate thesis will be based on independent research as judged by a faculty committee of the sub discipline. (committee members will be asked to provide strength and weaknesses concerning methods and principles related to the research).</li> <li>2a. Ninety percent of a sample of research/term papers will meet the communication standards of the discipline as judged by a faculty committee.</li> <li>2b. Ninety percent of the thesis will meet the communication standards of the discipline as judged by a faculty committee.</li> <li>2c. Fifty percent of the graduates will publish a peer reviewed paper based on their thesis research within three years of graduation.</li> <li>3a. Ninety percent of graduates will receive no less than 2.5 on a 5 pt scale in each of the knowledge areas as judged by the Graduate Thesis Committee during the comprehensive oral exam.</li> <li>3b. Ninety percent of a sample of research papers will demonstrate that students have at least an adequate knowledge of the subject topic as judged by the Departmental Graduate Committee.</li> </ol>	<ol style="list-style-type: none"> <li>1. Data was evaluated by faculty. One hundred percent of the students demonstrated excellent ability to conduct independent research and use appropriate methods.</li> <li>2a. A committee of faculty reviewed papers. Seventy-one percent met standards. Evaluations indicate some students have <u>need to improve writing skills.</u></li> <li>2b. Faculty committee reviewed thesis. One hundred percent met standards. Some students especially ESL students had problems during writing stages.</li> <li>2c. Journal reviews were conducted by faculty. Sixty-six percent of graduates published peer reviewed papers within three years.</li> <li>3a. Criteria were established by faculty and results tabulated for review. One hundred percent of the students performed at the 4.8 level.</li> <li>3b. Committee of faculty reviewed research papers. Fifty percent met. Fifty percent of students demonstrated "above average" knowledge but need assistance in writing.</li> </ol>	<ol style="list-style-type: none"> <li>1. Target met. Results were used to evaluate the need for curriculum changes. No changes recommended. Continue to monitor.</li> <li>2a. Target not met. Results were used to evaluate the need for curriculum changes. Advise students especially ESL students to take additional writing courses. Continue to monitor.</li> <li>2b. Target met. Results were used to evaluate need for curriculum changes. Refer students to SARC for assistance in writing. Continue to monitor changes.</li> <li>2c. Target met. Results were used to evaluate the need for curriculum changes. No changes recommended. Continue to monitor.</li> <li>3a. Target met. Results were used to evaluate the need for curriculum changes. No changes recommended. Continue to monitor.</li> <li>3b. Target not met. Results indicate need for further evaluation. Establish sessions for writing skills oriented to the disciplines of a particular course.</li> </ol>