

NTID
*****Laboratory Science Technology Program**
Outcomes and Assessment

Program Goal: To provide graduates with entry level analytical testing skills specifically related to occupations in the food and environmental testing field

Critical Outcomes		Assessment Mechanisms		Timeline		Use of Results
Skill Area	Performance	Instrument (class)	Assessment of Performance	Develop	Collect	
1. Microbiology (Identify unknowns)	a. Students will be able apply theories and concepts of scientific investigation to evaluate, identify, classify and report on various types of microorganisms b. Students will be able to demonstrate appropriate laboratory protocol.	a–b. To occur at the end of course 0879-241 LST Microbiology. Evaluation tools will include a comprehensive final exam, hands-on test and lab report.	a–b. Given a representative and comprehensive set of microorganisms, samples, sample solutions and testing equipment, (80% of) the students will identify and record, in writing, the unknown microorganisms according to group categories by incorporate concepts of preparation and testing according to laboratory protocols.	Spring 20023	Spring 20033	
2. Lab Applications (Sampling & Testing)	a. Students will be able apply appropriate procedures used to collect and prepare samples for analysis. b. Students will be able to select, operate and maintain appropriate instrumentation	a-c. To occur at the end of in course 0879-206 Lab Application VI. Methods of evaluation include, tests, practical exams, final exam, presentations	Given assignments that require collecting and preparing samples from a representative and comprehensive set of LST laboratory tasks, and all	Fall 20031	Fall 20041	

	used to conduct specific experiments. c. Students will be able to apply appropriate procedures to achieve the best results, interpret data, calculate and record results, and develop conclusions.	and portfolio review.	necessary resources to complete the task, (80% of) the students will be develop a clearly written portfolio (technical log) of cataloged events, experiences, test results, conclusions and concepts derived from all LST technical courses. All portfolio entries will be scored as acceptable professional entry level proficiency for all performance elements.			
<i>Co-op Work experience</i>	<i>Having completed a job search process, a student will complete at 10-week co-op work experience.</i>	<i>Assessment will occur prior to graduation by a Co-op supervisor.</i>	<i>_____ % of the students will successfully complete a 10-week program-related work experience— received a score of _____ or above on overall Co-op performance.</i>	Spring 20023	Spring 20033	
<i>Job Placement</i>	<i>Students will gain entry-level employment in the LST field</i>	<i>NCE Data</i>	<i>_____ % of graduates will be employed in the field.</i>	<i>TBD</i>	<i>TBD</i>	
<i>Student Satisfaction</i>	<i>Graduating students will indicate satisfaction with program courses</i>	<i>Student Satisfaction Survey</i>	<i>_____ % of students will rate program courses as satisfactory better as measured by a score of _____ or</i>	<i>Fall 20031</i>	<i>Winter 20032</i>	

		<i>above on Student Satisfaction Survey.</i>		
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*** LST is a new program that was implemented in 20011. The full sequence of courses that support the identified skill areas have not been fully implemented. Therefore, the criteria and conditions needed to adequately assess specific performances are still in the developmental stage.

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