

Standing Requirements

SLO/Performance Indicator

BIOTECHNOLOGY SCIENCE DEPARTMENT Outcome Set

1. Scientific Knowledge

The Biotechnology Science graduate will possess the scientific knowledge necessary to function as a scientist.

Performance Indicator	Mapping
1a. Integrate knowledge of math and the natural sciences.	Lakeland Learning Outcomes: 4
1b. Discuss fundamental scientific processes.	Lakeland Learning Outcomes: 10, 11, 12
1c. Use literature publications to explore scientific topics.	Lakeland Learning Outcomes: 14, 15a, 15b, 16

2. Laboratory Applications

The Biotechnology Science graduate will be able to translate biotechnology science to laboratory applications.

Performance Indicator	Mapping
2a. Apply knowledge of scientific processes to experimental protocol.	Lakeland Learning Outcomes: 5, 7, 8a, 8b
2b. Explain the science underlying the methods and techniques.	Lakeland Learning Outcomes: 8b
2c. Evaluate scientific questions and select appropriate strategies for resolution.	Lakeland Learning Outcomes: 6a, 6b, 7, 8a, 8b

3. Scientific Method

The Biotechnology Science graduate will be able to apply the scientific method to biotechnology related experiments using basic and advanced technique.

Performance Indicator	Mapping
3a. Accurately execute the experiment.	No Mapping
3b. Thoroughly document the results of the experiment.	Lakeland Learning Outcomes: 10, 12, 12b
3c. Interpret the results using principles of biotechnology science.	Lakeland Learning Outcomes: 8b

4. Laboratory Skills

The Biotechnology Science graduate will be able to demonstrate skills necessary to function effectively in a bioscience laboratory.

Performance Indicator	Mapping
4a. Demonstrate good lab citizenry as defined in the field.	No Mapping
4b. Adhere to regulatory compliance standards.	No Mapping
4c. Communicate clearly the knowledge (and findings) related to biotechnology science.	Lakeland Learning Outcomes: 11, 12, 12b

5. Professionalism

The Biotechnology Science graduate will demonstrate professionalism in their role as a scientist.

Performance Indicator	Mapping
5a. Engage in a collaborative behavior with peers and superiors.	Lakeland Learning Outcomes: 20a, 20b, 21
5b. Demonstrate integrity through generation of thorough, accurate reports that reflect all available data.	No Mapping
5c. Exhibit personal responsibility; accountability; professional characteristics.	No Mapping

Last Modified: 11/05/2012 05:17:40 PM