

Annual Assessment Report

Academic Year: 2014/15

Department: Microbiology and Immunology

Program(s): Microbiology

Assessment reports are to be submitted annually to report assessment activities and results by program. The reports are due every summer with a deadline of September 15th each year.

The use of this template is entirely optional.

Note: These reports have been required by MSU policy since 2004.

1. What Was Done

Based on our assessment plan, we evaluated program Learning Outcomes (LO) 5 and 6 this year.

Learning Outcomes 5 and 6 are:

LO 5: Our graduates will be able to verbally communicate about fundamental and modern microbiological concepts

LO 6. Our graduates will be able to communicate in written form about fundamental and modern microbiological concepts

2. What Data Were Collected

5. Presentations from our capstone course (BIOM 494) were evaluated from a random sample of the student presentations and scored using our 'Microbiology Assessment Form for Learning Objective 5" scoring rubric. (a copy of form is attached).

6. Writings from Immunology (BIOB 410) were evaluated from a random sample of the students in the course. The writing assignment given was to write an abstract of a guest lecture given by a Faculty Member on campus with expertise in Immunology. Evaluations were scored using the Departments 'Microbiology Assessment Form for Learning Objective 6" scoring rubric (a form is attached). Immunology is a large class (110 students) and 10% of the class was sampled with students chosen at random.

3. What Was Learned

5. The majority of the aspects of communication on the scoring rubric scored at or above threshold values, we identified. As the sample numbers were low (<5) statistics were not generated. As the seminar class is a small class, in future a greater percentage of students will be sampled to generate a sample size of 8-10.

6. The average score for the writing assignment was 4.4 out of a 5.0 scale, indicating students performance was well executed and exceeded expectations. The lowest score was received was 3.9 for Learning Objective 6c, which evaluated the ability to make critical judgments, indicating student performance was adequate and met expectations, but did not exceed expectations.

4. How We Responded

5. No changes were needed based upon performance.

6. Additional emphasis on making critical judgments in Immunology will be emphasized in the course next year.

Microbiology Assessment Form Scoring Rubric: Learning Objective 5

Course: _____

Semester _____

Evaluator: _____

Dept. of Evaluator _____

Type of Learning Activities(s) Assessed: choose one of the following:

Written examination

Written assignment

In class activities (role play, class discussion, presentations)

Performance of Lab Procedure

Out of class activities (projects)

Other (please specify)

Learning Objective Assessed:

5. Verbally Communicate about a fundamental and modern microbiological concepts

Learning Objective	Performance Level
Student should:	
a. show they can effectively <u>explain information</u> related to Microbiology	1 2 3 4 5
b. show they can <u>summarize information</u> related to Microbiology	1 2 3 4 5
c. show they can <u>make critical judgements</u> about scientific material	1 2 3 4 5
d. show they can <u>effectively interpret scientific information</u>	1 2 3 4 5

1 = Not Done

❖ **2 = Performed but with poor execution – threshold level (see note below)**

3 = Adequate Performance; Met Expectations

4 = Performance Well Executed; Exceeds Expectation

5 = Performance Excellent; Exceeds Expectations Plus

❖ **threshold level:** if student performance falls below this threshold faculty action will be taken to improve the program.

**Microbiology Assessment Form
Scoring Rubric**

Course: **BIOB 410 (Immunology)** Semester _____

Evaluator: _____

Dept. of Evaluator _____

Type of Learning Activities(s) Assessed: Choose one of the following:

Written examination

Written assignment

In class activities: role play, class discussion, presentations

Out of class activities (projects)

Other (please specify)

Learning Objective Assessed:

6. Communicate in written form about fundamental & modern microbiological concepts

Learning Objective	Performance Level
Student should:	
a. show they can effectively <u>explain information</u> related to Immunology	1 2 3 4 5
b. show they can <u>summarize information</u> related to Immunology	1 2 3 4 5
c. show they can <u>make critical judgements</u> about scientific material	1 2 3 4 5
d. show they can <u>effectively organize and make sense of scientific information</u>	1 2 3 4 5

1 = Not Done

*2 = **Performed but with poor execution – threshold level (see note below)**

3 = Adequate Performance; Met Expectations

4 = Performance Well Executed; Exceeds Expectation

5 = Performance Excellent; Exceeds Expectations Plus

❖ **threshold level:** if student performance falls below this threshold faculty action will be taken to improve the program.