

# Incorporating Student Learning Outcomes for MCB into canvas

In order to evaluate student learning in our department, we have to submit a report to the CALS deans each year. We must provide quantitative measures that assess the level of mastery our students achieve based on our *departmental student learning outcomes* (SLOs).

Canvas has recently enabled a new tool “Outcomes” that allows the instructor to define learning outcomes and associated rubrics to evaluate student mastery in each class. Student progress can be tracked through the learning mastery gradebook. Summary reports can then be manually entered into Excel for reporting.

In order to assess the performance of our curriculum, the Undergraduate Curriculum Committee (UCC) requests that each instructional faculty report *at least one* Outcome corresponding to a departmental SLO for each of their courses. Pick Outcomes 1-4 that apply to your courses. (The communication outcomes are already covered using the college-required communication courses.)

## **MCS Student Learning Outcomes:**

1. **CONTENT:** Describe fundamental concepts, skills and processes in microbiology, molecular biology and in host/pathogen interactions.
2. **APPLICATION:** Apply fundamental concepts, skills and protocols used to conduct research in fields of microbiology, molecular biology and in host/pathogen.
3. **DATA ANALYSIS:** Evaluate information and data in the general areas of microbiology and the cellular and molecular biological sciences.
4. **PROBLEM SOLVING AND CRITICAL THINKING:** Solve typical problems that are encountered in general areas of microbiology and cellular and molecular biological sciences.

**WRITTEN COMMUNICATION:** Communicate effectively in written form in a manner appropriate in microbiology and the cellular and molecular biological sciences.

**ORAL COMMUNICATION:** Communicate orally (including visual aids) in an effective manner appropriate in microbiology and the cellular and molecular biological sciences.

## **What to include in your report to the UCC:**

A-Identifiers:

Instructor Name

Course name & total enrollment

SLO evaluated

B-Assessment format of the evaluation:

- Quiz (or Quizzes)
- Assignment
- Project
- Presentation
- Written work

C-Exported mastery progress from learning mastery gradebook

1. Ratio of points earned/points needed for Mastery
2. Percentages of students in the Mastery levels (Exceeds Mastery, Meets Mastery, Near Mastery, and Well Below Mastery). Note: your particular Outcome may only report some of these levels instead of the full list.)

**How and when to submit your Outcomes Report:** Please submit your reports to Monica Oli (Monika [moli@ufl.edu](mailto:moli@ufl.edu)) by January 15. The report should include the outcomes for all courses taught during the preceding calendar year.

**How to set up Canvas to assess Outcomes:**

Bill Gurley has prepared a training video and associated PowerPoint presentation that explains the process. He will also assist on an individual basis. In addition, the UCC will schedule workshops for instructors if requested.

**Instructional Resources:**

Canvas Outcomes for Quizzes and Assignments Training Videos can be found on the MCS website under "Support-Apps."