

Course Outcomes Guide

Directions: Please complete this form to document your progress toward improving student learning. For each item, indicate your progress and your anticipated next steps. Thank you!

Course/Program Title: BIO 201 Cell Biology and Genetics/ Biotechnology and Biology Program

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Course/Program Team: Alicia Manfre, Mylynh Nguyen, Judith Peisen, Rosemary Nickerson

Expected Learning Outcomes

1. Apply a basic core of scientific and quantitative knowledge to enhance understanding of cell structure and function at the molecular level.
2. Develop and maintain a notebook of laboratory records.
3. Analyze and evaluate the effect of variables on experimental results including cell type, concentration and media components while participating in a group environment.

Assessment (How do or will students demonstrate achievement of each outcome? Please attach a copy of your assessment electronically.)

- Apply a basic core of scientific and quantitative knowledge to enhance understanding of cell structure and function at the molecular level.
 - Each week the students will learn a new laboratory skill designed to enhance their scientific and quantitative knowledge of the various topics of cell biology
 - The students will be required to complete homework assignments pertaining to the information that will be learned during the laboratory component of the course. This will allow the instructor to determine if the students comprehend the material presented during the lecture component of the course.
- Develop and maintain a notebook of laboratory records.
 - Laboratory notebooks will be kept by the student to document what skills they learn each week during the course of the semester.
- Analyze and evaluate the effect of variables on experimental results including cell type, concentration and media components while participating in a group environment.
 - The students will perform various laboratory exercises throughout the semester that will involve the analysis of variables on experimental results.

- The students work in groups of three to four during the lab component of this course. They are graded each week on a scale of 1 to 5 (1 = lowest; 5 = highest) as to how they work in a group

Validation (What methods have you used or will you use to validate your assessment?)

In Progress

Results (What do your assessment data show? If you have not yet assessed student achievement of your learning outcomes, when is assessment planned?)

In Progress

Follow-up (How have you used or how will you use the data to improve student learning?)

No Data Yet

Budget Justification (What resources are necessary to improve student learning?)