

GBC Class/Course Assessment Report

Course Prefix, Number, and Title: *BIOL315 (Cell Biology)*
 Section Number(s): *1001-5*
 Department: *Science*
 Instructor: *Daniel Bergey*

Academic Year: *2019-20*
 Semester: *SPR2020*
 Is this a GenEd class? Yes ___ No X

- Complete and submit your assessment report electronically to the Dean of Arts & Sciences by May 31st. As needed, please attach supporting documents and/or a narrative description of the assessment activities. You may use as many or as few outcomes as necessary.

Class/Course Outcomes	Assessment Measures	Assessment Results	Outcome Results Analysis
In the boxes below, summarize the outcomes assessed in your class or course during the last year. If this is a GenEd class, include the appropriate GenEd objectives.	In the boxes below, summarize the methods used to assess course outcomes during the last year. Include the criterion you'll use to judge whether or not students have achieved the expected outcome.	In the boxes below, summarize the results of your assessment activities during the last year. Include your judgement as to whether or not the criterion for student achievement has been met.	In the boxes below, please reflect on this outcome's results, and summarize how you plan to use the results to improve student learning.
Outcome #1: <ul style="list-style-type: none"> State the name and function of major cellular structures and molecules. 	Assessment Measure: <ul style="list-style-type: none"> Lecture exam, laboratory exercises, worksheets, group discussion, and quizzes. Criterion for achievement: <ul style="list-style-type: none"> 70% of class with 70% or higher 	Results: <ul style="list-style-type: none"> 11/11 Criterion Met: <ul style="list-style-type: none"> Yes 	1. Results Analysis: <ul style="list-style-type: none"> Students readily mastered this essential content 2. Action Plan: <ul style="list-style-type: none"> None required
Outcome #2: <ul style="list-style-type: none"> Describe basic cell biological concepts and principles. 	Assessment Measure: <ul style="list-style-type: none"> Lecture exam, laboratory exercises, worksheets, group discussion, and quizzes. Criterion for achievement: <ul style="list-style-type: none"> 70% of class with 70% or higher 	Results: <ul style="list-style-type: none"> 11/11 Criterion Met: <ul style="list-style-type: none"> Yes 	1. Results Analysis: <ul style="list-style-type: none"> All students attained proficiency with this fundamental content 2. Action Plan: <ul style="list-style-type: none"> Provide more discussed examples, and more homework assignments during course

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<p>Outcome #3:</p> <ul style="list-style-type: none"> <i>Explain how different experimental approaches are used to investigate cellular processes.</i> 	<p>Assessment Measure:</p> <ul style="list-style-type: none"> <i>Lecture exam, laboratory exercises, quizzes, worksheets, and group discussion.</i> <p>Criterion for achievement:</p> <ul style="list-style-type: none"> <i>70% of class with 70% or higher</i> 	<p>Results:</p> <ul style="list-style-type: none"> <i>10/11</i> <p>Criterion Met:</p> <ul style="list-style-type: none"> <i>Yes</i> 	<p>1. Results Analysis:</p> <ul style="list-style-type: none"> <i>Most students became proficient with this content</i> <p>2. Action Plan:</p> <ul style="list-style-type: none"> <i>Place more emphasis during discussion, and use more examples of experimental approaches for key experiments</i>
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Notes:

(1) This was the first time this course was offered, and I designed from scratch. Although I have not reviewed student evaluations for the course, I believe the course went relatively well, especially considering it had never been offered at GBC, and I have never taught an upper level Cell Biology course. Preparing lecture notes for this course was extremely time consuming as no basic PPT slides were available from the publisher, and I had to review and study a significant amount of the content before I could summarize key topic points into a concise set of PPT slides for each lecture. This semester (SPR2020) was challenging. My average work week was 70-75 hrs, 7 days/week, with very few exceptions. This one course alone demanded between 22-25 hours per week to review and proof content, and prepare cohesive lecture notes. As a new course, I expected to take extra time, but not as much as it demanded due to the publisher's lack instructor's resources. Not that the semester is over, I feel I have a very good course template and sets of lecture notes for the next time.

(2) This new course is the upper level complement to our core biology majors course, BIOL190. The text used for this course covers appropriate content for its purpose as a natural follow-up to BIOL190, and works well with the selected examples and content augmentation I included during the semester. BIOL315 is an excellent addition to our curriculum that fills an upper division gap for biology and health sciences majors. The course covers critical, more advanced topic areas that are not appropriate for BIOL190 students, and delves more deeply into important topic areas that we only cover briefly in BIOL190. This is a rigorous and challenging course for upper division biology and health sciences majors.

(3) The transition to all on-line format due to the Covid-19 pandemic did have a minor effect the course for the first 2 weeks of the transition as I was learning how to record lectures. Students were given all lecture notes in a timely manner, but it took me a couple weeks to become proficient in recording lectures and proofing before posting for student access. This resulted in a 3 day postponement of Exam #3, but after this two week lag period and adjustment, the course settled into a routine and we got back on track finishing all 20 chapters of the textbook as originally scheduled.

(4) The students worked hard all semester, and I was very happy with the overall performance of the class. I am looking forward to teaching the class again. The final, overall end-of-semester class average was 82.1%. Final grade breakdown (11 students): A's (2), B's (7), C's (2)

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I have reviewed this report:

Department Chair

Date _____

Dean

Date _____

Vice President of Academic Affairs and Student Services

Date _____