SUNY Broome Curriculum Committee
Course Student Learning Outcomes Revisions

I. Course Information/Signature Page

Date: 11/12/2018
Course Title: Principles of Biology
Department/Subject Designator: BIO 117
Sponsor Proposer: Dr. Richard Firenze
Sponsor Department(s): Biology
Cross-listed proposer (if applicable): Click here to enter cross-listed proposer.
Cross-listed department (if applicable): Click here to enter cross-listed department.
Effective semester/year of Proposed GE Addition: Click here to enter a date GER addition.

Approvals		*Yes*	*No*
Sponsoring Department: Biology (Chair signs for Department)	Date 11/18/18	X	
Comments:			
Department Chair:	Date 11/18/18	X	
Comments:			
Cross-listed Department (if applicable): (Chair signs for Department)	Date		
Comments:			
Cross-listed Department Chair (if applicable):	Date		
Comments:			
These signatures will be obtained upon approval of the course as a General Education course			
Curriculum Committee: (Chair signs for Committee)	Date		
Comments:			
EVP/CAO:	Date		
Comments:			

II. Assessment Plan: SUNY Broome Course Assessment Map & Plan

CC 10/18

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Course Student Learning Outcomes Revisions

1. **Course Title and Number:** **BIO 117 Principles of Biology**

2. Course Modalities: **On campus only**

If the course is a general education course, complete #3 and 4. If not, skip to #5.

3. SUNY-GER Category: **Natural Sciences**

4. SUNY GER Learning Outcomes:

Students will demonstrate:

1. understanding of the methods scientists use to explore natural phenomena, including observation, hypothesis development, measurement and data collection, experimentation, evaluation of evidence, and employment of mathematical analysis.

2. application of scientific data, concepts, and models in one of the natural sciences.

5. Assessment Schedule for Your Course:

See Grid Below

6. Alignment of Course SLO with SUNY BCC ILO, SUNY-GER SLO (if applicable) & Assessment Plan *(you may add more lines to the table as needed)****

Course SLO *(List every course SLO)*	**SUNY-GER SLO** *(if none, write N/A)*	**SUNY BCC ILO**	**Assessment Timeline**	**Learning Activity**	**Criteria for Success and Benchmark**
1. Apply knowledge of evolution to explain the unity and diversity of life	1,2	1,2,4	Fall 2019	Exam questions	70% of students will achieve 70% correct answers to questions.
2. Field identify 40 trees common to the north east forest community	1,2	4,5	Fall 2019	Tree exam in field	70% of students will achieve 70% correct answers to questions.
3. Compare and contrast the hypotheses explaining the origin of life on earth	1,2	1,2,4	Fall 2020	Exam questions	70% of students will achieve 70% correct answers to questions.
4. Perform ecological qualitative and quantitative analyses	1,2	2,4	Fall 2020	Field laboratory Study	70% of students will achieve 70% correct answers to questions.
5. Using examples explain the concept of emergent properties from the molecular level to the level of the biosphere.	1,2	1,2,4	Fall 2021	Exam questions	70% of students will achieve 70% correct answers to questions.

6. Using examples - list, discuss, and compare the various ecological levels of life on our planet and how human activities are placing these in danger.	1,2	1,2,4	Fall 2021	Exam questions	70% of students will achieve 70% correct answers to questions.