COURSE OUTCOME MATRIX COURSE SYLLABUS PART 3 of 3

Course Number and Title BS 101 General Biology I

Credit Hours 4

Course Description	A Laboratory Course: 3 hours lecture and 2 hours laboratory work each week. This course will introduce concepts of cell structure, function, and reproduction. Common biochemical phenomena, particularly the metabolic processes of photosynthesis and cellular respiration, will be covered. The form and the function of DNA will be related to mechanisms of inheritance and cellular physiology.

Prerequisite(s)	None
and/or	
Corequisite(s)	

Required Textbooks/References/Course Materials:

MindTap: Biology: The Dynamic Science (looseleaf and MindTap 2 terms)		Russell/Hertz/McMillan/Benington	Cengage Learning	9780357521311	

	General Education Outcomes
1	Utilize written and verbal language to discuss and comprehend information, incorporating a variety of technologies, such as text, data, and images (written language, verbal language, and information technology).
2	Identify and interpret relevant information in order to formulate an opinion or conclusion (critical thinking).
3	Demonstrate and communicate computational methods and mathematical reasoning in a variety of formats (using words, tables, graphs, mathematical equations, etc., as appropriate) (quantitative literacy and fluency).
4	Communicate in appropriate ways with those who are culturally diverse (intercultural competence).

	Program Outcomes
1	Students demonstrate a broad knowledge of science.
2	Students demonstrate how science processes work.
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	Course Outcomes (CO)	Bloom's Domain for CO (C, A, P), Category, and Level	Program Outcome(s)	Written Language	Verbal Language	Information Technology	Critical Thinking	Quantitative Literacy and Fluency	Intercultural Competence
1	Classify cell structure and function and compare and contrast the form and functions of prokaryotic and eukaryotic cells.	C-Understanding (2)	1	0	0	0	0	0	0
2	Describe the processes of metabolism in both plants and animals.	C-Remembering (1)	1	1	0	0	0	0	0
3	Explain the processes of cellular reproduction and define and predict genetic patterns of observable traits in organisms.	C-Understanding (2)	1	1	0	0	2	0	1
4	Identify all the classes of biological molecules and apply their distinctive properties to the operation and reproduction of the cell.	C-Remembering (1)	1	0	0	0	0	0	0
5	Demonstrate an ability to utilize and interpret statistics and graphs.	C-Applying (3)	1	0	0	0	2	1	0
6	Demonstrate the ability to utilize scientific laboratory equipment including measurement devices, compound light microscopes, and electronic equipment in pursuit of the scientific method.	P-Manipulate (2)	1,2	0	0	0	0	0	0
7									
8									
9									
Bloom's Domain Legend General Education Outcome Legend C = Cognitive 2 = Included and Measurable A = Affective 1 = Introduced and/or Minimally Addressed and Not Measurable P = Psychomotor 0 = Not included									

Reviewed: November 5, 2021