

All levels SLOs statistics during CCC Fall 2012 for Biology

SLO Text	SLO Level	Course Number	Fully Achieved	Partially Achieved	Failed to Achieve
Upon successful completion of the course, the student will be able to expertly present current knowledge on a reportable communicable disease in the U.S.	C	BIOL-C210	77.08 %	19.79 %	3.13 %
Upon successful completion of the course, the student will be able to effectively apply the scientific method to successfully identify bacterial cultures using morphological and metabolic tests, given the appropriate lab setting.	C	BIOL-C210	85.42 %	13.54 %	1.04 %
Upon successful completion of the course, the student will be able to demonstrate fundamental understanding of microbial characteristics, metabolism and genetics.	C	BIOL-C210	64.58 %	26.04 %	9.38 %
Upon successful completion of the course, the student will be able to demonstrate understanding of microbe-human interactions and how these interactions can be either beneficial or detrimental.	C	BIOL-C210	51.04 %	37.50 %	11.46 %
Upon successful completion of the course, the student will be able to demonstrate understanding of how microbial growth can be controlled.	C	BIOL-C210	66.67 %	22.92 %	10.42 %
Student will be able to define the basic concepts of Human Physiology, and apply the knowledge to better care of his/her body.	C	BIOL-C225	58.59 %	39.39 %	2.02 %
Given a specific body organ, student will be able to correlate the structure of this organ to its function and outline the role of this specific organ in maintaining homeostasis.	C	BIOL-C225	64.65 %	31.31 %	4.04 %
Given a series of scenarios, student will be able to compare and contrast normal physiological processes and abnormal pathological conditions based on the knowledge obtained from the course.	C	BIOL-C225	49.49 %	44.44 %	6.06 %
Distinguish whether particular traits in living organisms are the result of genetics or environmental influences.	C	BIOL-C283	64.71 %	23.53 %	11.76 %
Describe the principal molecular mechanisms of genetic inheritance and variation.	C	BIOL-C283	64.71 %	23.53 %	11.76 %
Knowledgeably discuss ethical implications of developing genetic technologies.	C	BIOL-C283	64.71 %	5.88 %	29.41 %
Demonstrate ability to apply critical thinking and analysis.	I	BIOL-C100	74.20 %	10.14 %	15.66 %
Use scientific and quantitative reasoning.	I	BIOL-C100	65.48 %	14.23 %	20.28 %
Compare and contrast the cellular components and cellular functions observed in the various domains of life.	C	BIOL-C100	67.79 %	15.66 %	16.55 %
By applying the concept of how structure is related to function, identify the major taxonomic groups of organisms and compare and contrast their major anatomical, physiological, and ecological characteristics.	C	BIOL-C100	65.30 %	14.06 %	20.64 %
Discuss how natural selection and mutation drive evolution in living organisms.	C	BIOL-C100	61.03 %	19.04 %	19.93 %
Follow appropriate laboratory etiquette and laboratory technique (including effective dissection and use of the compound light microscope).	C	BIOL-C220	57.06 %	24.86 %	18.08 %
Given a biology-related news article, describe how each step of the scientific method was followed.	C	BIOL-C100L	74.73 %	10.22 %	15.05 %
Identify and explain the role of controls in biology experiments.	C	BIOL-C100L	78.49 %	8.06 %	13.44 %
Design and conduct a controlled experiment that tests student-created hypotheses, given the appropriate lab setting.	C	BIOL-C100L	76.34 %	6.45 %	17.20 %

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Apply valid research principles, including the correct use and citation of sources, in the interpretation and application of biological theories and principles of aging.	C	BIOL-C120	76.92 %	7.69 %	15.38 %
Interpret and apply biological theories and principles of aging to determine their impact on and implications for individuals and society as a whole.	C	BIOL-C120	64.10 %	20.51 %	15.38 %
Distinguish normal age change from disease.	C	BIOL-C120	64.10 %	15.38 %	20.51 %
Describe in detail basic principles of pharmacology including pharmacokinetics.	C	BIOL-C200	88.89 %	11.11 %	0.00 %
Examine in detail scientific classifications of drugs and analyze the basis for rational therapeutics.	C	BIOL-C200	74.07 %	18.52 %	7.41 %
Identify typical drugs applied to common pathologies, body system disorders, and clinical procedures.	C	BIOL-C200	74.07 %	18.52 %	7.41 %
Demonstrate a working knowledge of and ability to analyze anatomic systems, spatial relationships, and system interactions.	C	BIOL-C220	58.76 %	27.68 %	13.56 %
Develop new biology-related activities, such as new lab exercises or acquisition of novel data that may be used for scholarly publications.	C	BIOL-C291	0.00 %	0.00 %	100.00 %
Develop new biology-related activities, such as new lab exercises or acquisition of novel data that may be used for scholarly publications.	C	BIOL-C292	N/A	N/A	N/A
Develop new biology-related activities, such as new lab exercises or acquisition of novel data that may be used for scholarly publications.	C	BIOL-C293	N/A	N/A	N/A
Evaluate his/her career goals in relationship to his/her educational progress and assess and revise his/her educational plans with respect to his/her individual career.	C	BIOL-C291	0.00 %	0.00 %	100.00 %
Evaluate his/her career goals in relationship to his/her educational progress and assess and revise his/her educational plans with respect to his/her individual career.	C	BIOL-C292	N/A	N/A	N/A
Evaluate his/her career goals in relationship to his/her educational progress and assess and revise his/her educational plans with respect to his/her individual career.	C	BIOL-C293	N/A	N/A	N/A
Apply biological principles to work/laboratory setting by proficiently setting up and executing biology-related activities and demonstrate familiarity with ancillary activities critical for success in biology-related settings, such as inventorying materials, ordering, following safety regulations, and scheduling.	C	BIOL-C291	0.00 %	0.00 %	100.00 %
Apply biological principles to work/laboratory setting by proficiently setting up and executing biology-related activities and demonstrate familiarity with ancillary activities critical for success in biology-related settings, such as inventorying materials, ordering, following safety regulations, and scheduling.	C	BIOL-C292	N/A	N/A	N/A
Apply biological principles to work/laboratory setting by proficiently setting up and executing biology-related activities and demonstrate familiarity with ancillary activities critical for success in biology-related settings, such as inventorying materials, ordering, following safety regulations, and scheduling.	C	BIOL-C293	N/A	N/A	N/A