

All levels SLOs achievement during CCC Summer 2012

SLO Achievement

SLO Text	SLO Level	Course Number	Fully Achieved	Partially Achieved	Failed to Achieve
<u>Describe and examine characteristic elements, processes, and features common to all life from microscopic viruses, microbes, and unicellular organisms to macroscopic plants and animals.</u>	C	BIOL-C100	87.30 %	6.15 %	6.56 %
<u>Explain the life processes in microbes, viruses, unicellular organisms, colonial organisms, and plants.</u>	C	BIOL-C100	84.43 %	8.20 %	7.38 %
<u>Explain the life processes in animals.</u>	C	BIOL-C100	86.48 %	6.56 %	6.97 %
<u>Compare and contrast the structure and function of microscopic organisms, plants and animals.</u>	C	BIOL-C100	86.89 %	6.56 %	6.56 %
<u>Describe and inventory the basic anatomical and physiological features of the human body.</u>	C	BIOL-C100	82.79 %	9.02 %	8.20 %
<u>Compare other animals' systems with those of the human body.</u>	C	BIOL-C100	84.02 %	9.43 %	6.56 %
<u>Summarize and categorize the principles of basic genetics with applications to various plants and animals including humans focusing on the role and operation of DNA in storing and transmitting the genetic information.</u>	C	BIOL-C100	88.11 %	5.33 %	6.56 %
<u>Appraise the role of humans within the environment of Earth, identifying the basic structural parts of an ecosystem, the energy flow and materials cycles, and describing the interrelationships among populations, species, communities, and ecosystems.</u>	C	BIOL-C100	79.51 %	12.30 %	8.20 %
<u>Formulate hypotheses/statements regarding the relationship between our health and the environment.</u>	C	BIOL-C100	83.61 %	8.20 %	8.20 %
<u>Describe the scientific method and evaluate the validity of scientific evidence based upon observations and data.</u>	C	BIOL-C100	86.07 %	6.97 %	6.97 %
<u>Describe the cell as the basic unit of life, and illustrate how all organisms are made of cells and cell products using the same basic processes.</u>	C	BIOL-C100	88.93 %	4.51 %	6.56 %
<u>Describe the basic groups of chemical molecules used by living organisms and relate what they have in common with chemicals in non-living things.</u>	C	BIOL-C100	89.34 %	4.51 %	6.15 %
<u>Name and describe the characteristics of the five kingdoms of living organisms.</u>	C	BIOL-C100	87.30 %	5.74 %	6.97 %
<u>The student will be able to analyze the fundamental features of inorganic chemistry as it applies to organic and biochemistry including measurement and mathematical interconversion of physical properties such as mass, volume, density, temperature, solution, concentrations.</u>	C	CHEM-C110	82.46 %	7.02 %	10.53 %
<u>The student will be able to correctly use scientific systems of measurement, scientific symbols, and chemistry vocabulary and to differentiate typical acid and base formulas and compare/contrast the behavior associated with acids and bases including the behavior of buffers.</u>	C	CHEM-C110	82.46 %	5.26 %	12.28 %
<u>The student will be able to manipulate laboratory equipment so that he or she will be able to perform basic chemical experiments and determinations.</u>	C	CHEM-C110	82.46 %	3.51 %	14.04 %
<u>Students will be able to distinguish various roles of four major classes of biomolecules in living cells, and to distinguish and construct key structural features and common reactions of these classes of biomolecules.</u>	C	CHEM-C110	47.37 %	36.84 %	15.79 %
<u>Distinguish between chemical and physical changes and describe the basic properties and classifications of matter.</u>	C	CHEM-C180	60.00 %	30.00 %	10.00 %

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<u>Write, balance, and perform calculations based on chemical reactions of various types and know and use the mole concept to quantify the amounts and composition of chemicals and solutions.</u>	C	CHEM-C180	50.00 %	40.00 %	10.00 %
<u>Use the Ideal Gas Law and associated laws to describe and explain gas behavior qualitatively and quantitatively.</u>	C	CHEM-C180	73.33 %	16.67 %	10.00 %
<u>Describe the composition of the atoms, subatomic particles, and the positions of electrons.</u>	C	CHEM-C180	60.00 %	30.00 %	10.00 %
<u>Predict the physical, chemical, and electronic properties of elements using the periodic table.</u>	C	CHEM-C180	70.00 %	23.33 %	6.67 %
<u>Distinguish between chemical and physical changes and describe the basic properties and classifications of matter.</u>	C	CHEM-C180L	75.00 %	14.29 %	10.71 %
<u>Write, balance, and perform calculations based on chemical reactions of various types and know and use the mole concept to quantify the amounts and composition of chemicals and solutions.</u>	C	CHEM-C180L	46.43 %	39.29 %	14.29 %
<u>Use the Ideal Gas Law and associated laws to describe and explain gas behavior qualitatively and quantitatively.</u>	C	CHEM-C180L	78.57 %	0.00 %	21.43 %
<u>Describe the composition of the atoms, subatomic particles, and the positions of electrons.</u>	C	CHEM-C180L	71.43 %	10.71 %	17.86 %
<u>Predict the physical, chemical and electronic properties of elements using the periodic table.</u>	C	CHEM-C180L	67.86 %	17.86 %	14.29 %
<u>Demonstrate ability to apply critical thinking and analysis.</u>	I	BIOL-C100	84.43 %	10.66 %	4.92 %
<u>Demonstrate ability to apply critical thinking and analysis.</u>	I	CHEM-C180	86.67 %	6.67 %	6.67 %
<u>Demonstrate ability to apply critical thinking and analysis.</u>	I	CHEM-C180L	89.66 %	3.45 %	6.90 %
<u>Use scientific and quantitative reasoning.</u>	I	BIOL-C100	88.52 %	6.56 %	4.92 %
<u>Use scientific and quantitative reasoning.</u>	I	CHEM-C110	87.72 %	3.51 %	8.77 %
<u>Use scientific and quantitative reasoning.</u>	I	CHEM-C180	86.67 %	6.67 %	6.67 %
<u>Use scientific and quantitative reasoning.</u>	I	CHEM-C180L	89.66 %	3.45 %	6.90 %