

*** Only available for nursing students*

AUHS GENERAL EDUCATION COURSE NUMBER TITLE	QUARTER UNITS
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CHEMISTRY151 A & B: General, Organic and Bio-Chemistry

(4 credit units/ 50 clock hours)

This course is a descriptive course in inorganic and organic chemistry. Basic laws and chemical calculations are stressed with an emphasis on theory and technique of qualitative analysis.

Organic chemistry includes the exploration of the principles underlying the chemistry of living systems providing an introduction to the chemistry of bioenergetics, metabolism, biosynthesis, and molecular physiology.

CHEMISTRY151 A & B L: General, Organic and Bio-Chemistry

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<p>and viruses; the methods used to control these microorganisms, the human body's natural defense mechanisms, and selected microbial pathogens.</p> <p>MICROBIOLOGY 201 L: Microbiology - Laboratory (1 credit units/30 Clock Hours) Lab portion of the Microbiology 201: Microbiology</p>	
<p>PHARMACOLOGY 210: Clinical Pharmacology <i>(3 credit units/ 30 Clock Hours)</i> This course is an introduction to the basic principles of pharmacology with a focus on pharmacokinetics, pharmacodynamics, and therapeutic implications for major drug categories as well as natural products, including principles of medication administration. *Prerequisite: CHEMISTRY 151A & B</p>	4

(2 credit units)

This course builds on the solid knowledge of Calculus I, particularly differentiation and integration techniques and their applications. Following the discussion of techniques of integration (including areas, volumes, work, arc length, surface area, and center of mass), the reviews the calculus of curves defined by parametric equations and curves defined in a new coordinate system called polar coordinates. The course concludes with an in-depth discussion of series and their application to the representation of functions by power series. The student will emerge knowing how to integrate combinations of elementary functions with accuracy and confidence. *Prerequisites: *Calculus 102*