

GRAND CANYON UNIVERSITY™

PHOENIX, ARIZONA

Summer Dual Enrollment Courses Offered

College	Course Code	Course Title	Credits	Course Description
CSET	BIO-181	General Biology I	3	This course is a study of biological concepts emphasizing the interplay of structure and function, particularly at the molecular and cellular levels of organization. Cell components and their duties are investigated, as well as the locations of cellular functions within the cell. The importance of the membrane is studied, particularly its roles in controlling movement of ions and molecules and in energy production. The effect of genetic information on the cell is followed through the pathway from DNA to RNA to protein. Co-requisite: BIO-181L.
CSET	BIO-181L	General Biology I Lab	1	This lab course is designed to reinforce principles learned in BIO-181 through experiments and activities that complement and enhance understanding of macromolecules, cell membrane properties, cellular components and their contribution to cell structure and function. Assignments are designed to relate cellular processes such as metabolism, cell division and the flow of genetic information to cell structure. Co-requisite: BIO-181.
CSET	BIO-201	Human Anatomy and Physiology I	3	This course is the first of a two-course sequence examining the structure and function of the human body and mechanisms for maintaining homeostasis within it. This portion includes the study of cells, tissues and genetics, as well as the integumentary, skeletal, muscular and nervous systems. Co-requisite: BIO-201L.
CSET	BIO-201L	Human Anatomy and Physiology I	1	This course involves a study of the gross anatomy and functions of the skeletal, muscular and nervous systems. This experiential lab involves gaining basic knowledge of the use of human cadavers, animal demonstrations and computer-assisted instruction. Co-requisite: BIO-201.
CSET	BIO-205	Microbiology	3	This course provides an introduction to the principles and applications of microbiology, as well as a study of the general characteristics of microorganisms, their activities and their relationship to humans. Students develop an understanding of microbial cell structure and function, microbial genetics, related pathologies, immunity and other selected applied areas.
CSET	BIO-205L	Microbiology Lab	1	The laboratory section of BIO-205 supports further learning surrounding principles gained in the lecture course. Students develop fundamental skills in microbiological laboratory techniques and microscopy methodologies, as well as the isolation and identification of pathogenic microorganisms.
CSET	CST-105	Computer Programming I	4	This course introduces the fundamental concepts and syntax of the Java programming language. The course focuses on object-oriented techniques in Java with an emphasis on problem solving and fundamental algorithms.

COFAP	DFP-101	Introduction to Cinema: History and Aesthetics	4	This course covers multiple eras and movements throughout the age of film.
CHSS	MAT-154	Applications of College Algebra	4	This course is designed to prepare students to integrate fundamental mathematical concepts with the critical and quantitative thinking needed to solve workplace-related problems. The course is founded upon a functional and technological approach to algebra. Topics include functions, algebraic and exponential equations, systems, matrices, probability and statistics. Emphasis is placed on developing a student's understanding of mathematical representation and logical reasoning to solve real-world problems. Placement exam required.
CHSS	PSY-102	General Psychology	4	This foundation course in the science of behavior includes an overview of the history of psychology, the brain, motivation, emotion, sensory functions, perception, intelligence, gender and sexuality, social psychology, human development, learning psychopathology and therapy.