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 which 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-205	Microbiology	3	This course provides an introduction to the principles and applications of microbiology and a study of the general characteristics of microorganisms, their activities, and their relationship to humans. Students develop 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, microscopy methodologies, and the isolation and identification of pathogenic microorganisms.
CHSS	MAT-154	Applications of College Algebra	4	This course is designed to prepare learners 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 students' understanding of mathematical representation and logical reasoning to solve real-world problems. **Prerequisite: Grade of C or better in MAT-110.**
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.

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