Dual Enrollment Course Descriptions

*Courses highlighted in yellow are offered online ** This is not an exhaustive list**

BIO 105 Human Biology

3-credit course. This course is an introductory course to the biology of the human body. Topics include overviews of the circulatory, digestive, respiratory, nervous, reproductive, excretory and musculoskeletal systems. Not open for students with credit in BIO 175 or BIO 176.
Prerequisite: None
Co-requisite: BIO 105L

BIO 105L Human Biology Laboratory

0-credit lab course. Hands-on laboratory activities give practical experience in understanding concepts about how the human body functions as presented in the lecture component of Human Biology. Not open for students with credit in BIO 175 or BIO 176.
Prerequisite: None
Co-requisite: BIO 105

BIO 175 Human Anatomy & Physiology I

4-credit course. This course studies the fundamental elements of human structure and function including cellular physiology, tissue organization, integumentary system, skeletal system, muscular system, nervous system and senses. Unifying themes, such as homeostasis, will be covered.
Prerequisite: None
Co-requisite: BIO 175L

BIO 175L Human Anatomy & Physiology I Laboratory

0-credit lab course. The laboratory component provides hands-on experiences, which encourage critical thinking, the understanding of scientific methodology and the application of scientific principles as presented in the lecture component of Human Anatomy & Physiology I.
Prerequisite: None
Co-requisite: BIO 175

BIO 176 Human Anatomy & Physiology II

4-credit course. This course is a continuation of Human Anatomy & Physiology I (BIO 175) and includes the cardiovascular system, lymphatic system and immunity, respiratory system, digestive system and metabolism, renal system, fluid/electrolyte and acid/base balance and reproductive system. Unifying themes, such as homeostasis, will be expanded upon.
Prerequisite: BIO 175
Co-Requisite: BIO 176L

BIO 176L Human Anatomy & Physiology II Laboratory

0-credit lab course. The laboratory component provides hands-on experiences, which encourage critical thinking, the understanding of scientific methodology and the application of scientific principles as presented in the lecture component of Human Anatomy & Physiology II.
Prerequisite: BIO 175
Co-requisite: BIO 176

BIO 185 Microbiology

3-credit course. This course provides an introduction to microbiology with an emphasis on the basic principles and concepts including anatomy, classification, physiology and practical uses of microorganisms. Students will develop an understanding of how microorganisms affect our lives by causing disease, destroying things that we consider important or contributing to improving our quality of life. The importance of the prevention of the transmission of infections will be emphasized.
Prerequisite: BIO 175 or BIO 105
Co-requisite: BIO 185L

BIO 185L Microbiology Laboratory

0-credit lab course.
Prerequisite: None
Co-requisite: BIO 185

BIO 230 Immunology

3-credit course. This course will cover principles of immunology, both at the molecular and cellular level, and will address aspects of cell mediated immunity in health and disease. Emphasis will be placed on specific and non-specific immunity and how the systems interact with each other. Other aspects of immunology, such as cancer, autoimmunity, immunology tools and the mechanisms pathogens use to avoid the immune system, will be covered.
Prerequisites or Co-Requisites: BIO 185, BIO 175, BIO 105

BIO 250 Nutrition for Life

3-credit course. This course covers the role of nutrition in human health. Students will explore food composition, biochemistry of nutrients, nutrient metabolism and utilization in the body, and the changing nutritional needs throughout the life span. Nutrition as part of health promotion will be emphasized in this course.
Prerequisite: None

CHE 100 General Chemistry I

3-credit course. CHE 100 introduces topics in both general and organic chemistry, including atomic structure, dimensional analysis, the mole, organic nomenclature, chemistry of gases, and introduces equilibrium.
Prerequisite: None

CMP 150 Digital Foundations Seminar

3-credit course. This seminar is designed to provide students with a foundation in digital concepts, knowledge, skills, and information literacy. Students will learn differing modalities and best practices for digital communication, collaboration, and engagement.
Prerequisite: None

ECO 150 Survey of Economics

3-credit course. This course is an introduction to the economic way of thinking that includes both micro and macroeconomic topics and their application internationally. Major topics to be covered include microeconomic concepts such as supply and demand analysis, market structures, and the impact of government intervention on markets, and macroeconomic concepts such as inflation, unemployment, economic growth and monetary and fiscal policy. This course will help students understand the economic environment in which they live, work and vote.
Prerequisite: None

ENG 100 English Composition

3-credit course. This course provides guided practice in writing with emphasis on thoughtful analysis of subject matter, clear understanding of the writing situation, flexible use of rhetorical strategies and development of stylistic options, particularly those related to an understanding of a variety of purposes and voices. Students gain knowledge and develop skills that assist them to communicate more effectively.
Prerequisite: None

ENG 202 Advanced Communication

3-credit course. This course connects critical thinking skills with reading, writing, and public speaking. Rhetorical situations will focus on a variety of communication modes and advanced research skills.
Prerequisite: ENG 100

HLT 150 Wellness for Life

3-credit course. This course offers a comprehensive investigation of the theoretical models and dimensions of wellness. It also provides practical opportunities to assess personal health status and adopt a wellness lifestyle.
Prerequisite: None

HUM 210 World Religions

3-credit course. This course will focus on primal religions and the major religion of the West, Christianity; the Middle East, Judaism and Islam; and India and the Far East, Hinduism, Buddhism, Confucianism and Taoism. The course will cover the development of each system of belief and its approach to life and death, the afterlife, and good and evil.
Prerequisite: None

MAT 140 Introduction to Statistical Thinking
3-credit course. This course will introduce statistical thinking and its application to health care. Topics from descriptive statistics, probability theory, and inferential statistics will be studied.
Prerequisites: High School Algebra I & II

MAT 150 Clinical Mathematics for the Health Sciences
3-credit course. This course is a study of mathematics applications in the health sciences using arithmetic, algebra and statistics. Problem-solving techniques will be illustrated to give students insight into the practical applications of mathematics in addressing real-life problems.
Prerequisite: None

MAT 160 College Algebra
3-credit course. This course involves the study of algebra including its applications and graphs. Course topics include algebraic expressions, linear equations and inequalities, polynomial and rational functions, quadratic equations and inequalities, exponential and logarithmic functions, systems of equations, relations and functions and radical and root functions.
Prerequisites: High School Algebra I & II

MAT 260 Statistics
3-credit course. This course introduces the basic concepts of statistical reasoning and computer-based techniques for organizing and interpreting data. Topics covered include measures of central tendency and variation, probability, the normal distribution, correlation, estimating population parameters and hypothesis testing.
Prerequisite: College-level math or statistics course

PHY 150 Physics
3-credit course. This course provides an algebra-based introduction to physics, exemplifying the scientific method and leading toward an understanding of technical applications. It includes topics such as measurement, dimensional analysis, systems of units, describing motion, circular and rotational motion, scalars and vectors, laws of motion, force, work, energy, momentum, simple harmonic motion, waves, sound, temperature, heat and heat transfer.
Prerequisites: MAT 150 or MAT 160
Co-requisite: PHY 150L

PHY 150L Physics Laboratory
0-credit lab course.
Prerequisite: None
Co-requisite: PHY150

PSY 100 General Psychology
3-credit course. This course explores the basics of psychology to improve the students' understanding of human behavior. Topics covered include history, research, biological bases, sensation and perception, consciousness, learning, memory, language and thought, intelligence, emotion, development, personality, psychological disorders and treatment and social behavior.
Prerequisite: None

SOC 100 Introduction to Sociology

3-credit course. This course introduces basic concepts, theories and perspectives in sociology. Sociology is the scientific study of the influence of groups, institutions and cultures upon individuals. Sociology studies the way society is organized and how human beings interact in the context of their social situations.
Prerequisite: None

SOC 200 Cultural Diversity

3-credit course. This course focuses on diversity consciousness. The emphasis is on awareness of cultural differences within and across particular US subcultures, understanding the impact those differences have on people's lived experiences, and recognizing the skills that lead to culturally competent interactions with people from diverse backgrounds.
Prerequisite: None

SPA 150 Introduction to Medical Spanish

3-credit course. Students learn basic written/oral Spanish communication skills and gain cultural competence from real-world situations to further develop appropriate interactions with Spanish-speaking patients in healthcare settings. No previous Spanish experience required.
Prerequisite: None