

FIND YOUR PURPOSE

Dual Enrollment Courses at High Schools

College	Course Code	Course Title	Credits	Course Description
ССОВ	ACC-240	Fundamentals of Accounting	4	In this course, students examine basic accounting concepts and explore how accounting information assists business leaders in making financial decisions that increase profitability and contribute to competitive advantage. There is a specific emphasis on the analysis of financial statements in the business decision-making process, budgeting and factors businesses must consider when determining the appropriate pricing of goods and services. Prerequisite: MAT-144 or MAT-154.
СОТ	BIB-106	Old Testament Historical Perspectives	4	This course introduces the text of the Old Testament with emphasis on the biblical narrative, genres, major historical periods and theological themes.
COT	BIB-107	New Testament Historical Perspectives	4	This course introduces the text of the New Testament with emphasis on the biblical narrative, genres, major historical periods and theological themes.
CNS	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 the 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.
CNS	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.
CNS	BIO-182	General Biology II	3	This course is a study of biological concepts emphasizing the interplay of structure and function at the molecular, cellular and organismal levels of organization. Relationships of different life forms are studied, noting characteristics and general lifecycles of the different types of organisms, including bacteria, archaea and eukaryotes. Plant structure, function and reproduction are studied, as well as photosynthesis and plant nutrition. Ecological principles are discussed, including organism interactions at the various ecological levels. Principles of conservation are introduced. Prerequisite: BIO-181. Co-requisite: BIO-182L.

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CNS	BIO-182L	General Biology II Lab	1	This lab is designed to reinforce principles learned in BIO-182. Organisms are examined to recognize similarities and differences among different types. Plant structure and processes, including photosynthesis and water transport, are investigated through observation and activities. Concepts of ecology are explored through the study of species, interaction projects and other activities. Co-requisite: BIO-182.
CNS	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; genetics; and the integumentary, skeletal, muscular and nervous systems. Co-requisite: BIO-201L.
CNS	BIO-201L	Human Anatomy and Physiology I Lab	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.
CNS	BIO-202	Human Anatomy and Physiology II	3	This course is the second 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 immunity, metabolism, energetics, fluid, electrolyte and acid-base balance and the endocrine, hematologic, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems. Prerequisites: BIO-201 and BIO-201L. Co-requisite: BIO-202L.
CNS	BIO-202L	Human Anatomy and Physiology II Lab	1	This course is a study of the gross anatomy and functions of the endocrine, cardiovascular, respiratory, digestive, renal and reproductive systems. The experiential lab involves an advanced exploration of concepts using human cadavers, animal demonstrations and computer-assisted instruction. Prerequisites: BIO-201 and BIO-201L. Co-requisite: BIO-202.
CNS	BIO-210	Anatomy and Physiology for Science Majors I	3	This course examines human anatomy and physiology with an emphasis on function and homeostasis of the following areas: tissues, integument, skeletal system, muscular system and the nervous system. Case studies are utilized to reinforce physiological processes. Prerequisites: BIO-181 and BIO-181L. Co-requisite: BIO-210L.
CNS	BIO-210L	Anatomy and Physiology for Science Majors I Lab	1	This course involves the study of the gross anatomy and function of the skeletal, muscular and nervous systems. This experiential lab involves an advanced exploration of concepts utilizing human cadavers and other supplemental materials. Co-requisite: BIO-210.
CNS	BIO-211	Anatomy and Physiology for Science Majors II	3	This course examines human anatomy and physiology with an emphasis on the function and homeostasis of the following sys-tems: endocrine, cardiovascular, respiratory, digestive, uri-nary and reproductive. Case studies are utilized to reinforce physiological processes. Prerequisites: BIO-210 and BIO-210L. Co-requisite: BIO-211L.
CNS	BIO-211L	Anatomy and Physiology for Science Majors II Lab	1	This course involves the study of the gross anatomy and functions of the endocrine, cardiovascular, respiratory, digestive, renal and reproductive systems. This experiential lab involves an advanced exploration of concepts utilizing human cadavers and other supplemental materials. Prerequisite: BIO-210L. Co-requisite: BIO-211.

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CNS	BIO-215	General Microbiology	3	This course — designed for science majors — introduces the principles of microbiology and the study of the general characteristics, growth and diversity of microorganisms. Topics include microbial cell structure and function, bacterial genetics, immune response and immunization, physical and chemical control of microorganisms, specific characteristics and mechanisms of antimicrobial medications and microbial diseases with emphasis on pathogenesis, epidemiology and treatment. Prerequisites: BIO-181 and BIO-181L. Co-requisite: BIO-215L.
CNS	BIO-215L	General Microbiology Lab	1	The General Microbiology laboratory supports further learning surrounding principles gained in the lecture. Students develop fundamental skills in microbiological laboratory techniques, microscopy methodologies, molecular methods of detection and the isolation and identification of pathogenic microorganisms. Prerequisites: BIO-181 and BIO-181L. Co-requisite: BIO-215.
CNS	BIO-220	Environmental Science	4	This course examines the risks and the environmental impact of human behavior and population growth on natural resources. Emphasis is placed on a holistic approach to environmental science using hands-on exercises, environmental surveys and class discussions to reinforce scientific principles.
CET	BIT-200	Introduction to Computer Technology	4	This course provides the foundation of core knowledge within the field of information technology. Topics include technology-centric organizations, the type and role of fundamental information technology systems, data management to include privacy and security, e-business and m-business, hardware, software and computer networks.
CNS	CHM-101	Introduction to General, Organic and Biochemistry	3	This is an introduction to the principles of chemistry and is designed for students without a strong background in science. Topics covered include a survey of the chemical and physical properties of elements and compounds, chemical reactions, chemical energetics, acids and bases and chemical bonding. An introduction to organic and biochemistry emphasizes the relationship between molecular structure and function. Co-requisite: CHM-101L.
CNS	CHM-101L	Introduction to General, Organic and Biochemistry Lab	1	This lab course is designed to complement and support the principles being addressed in CHM-101. Students learn basic lab techniques related to general and organic chemistry, building upon and strengthening foundational knowledge such as stoichiometry and reaction types. Additionally, some topics are addressed from a biochemical standpoint to highlight application to daily living. Co-requisite: CHM-101.
CNS	CHM-113	General Chemistry 1	3	This is the first course of a two-semester introduction to chemistry intended for undergraduates pursuing careers in the health professions and others desiring a firm foundation in chemistry. The course assumes no prior knowledge of chemistry and begins with basic concepts. Topics include an introduction to the scientific method, dimensional analysis, atomic structure, nomenclature, stoichiometry, chemical reactions, the gas laws, thermodynamics, chemical bonding and properties of solutions. Prerequisites: MAT-134 or MAT-154. Co-requisite: CHM-113L.
CNS	CHM-113L	General Chemistry 1 Lab	1	The laboratory section of CHM-113 reinforces and expands the learning of principles introduced in the lecture course. Experiments include the determination of density, classification of chemical reactions, the gas laws, determination of enthalpy change using calorimetry and determination of empirical formula. Prerequisite: MAT-134 or MAT-154. Co-requisite: CHM-113.

College	Course Code	Course Title	Credits	Course Description
CNS	CHM-115	General Chemistry II	3	This is the second course of a two-semester introduction to chemistry intended for undergraduates pursuing careers in the health professions and others desiring a firm foundation in chemistry. Upon successful completion of this course, students demonstrate knowledge and/or skill in solving problems involving the principles of chemical kinetics, chemical equilibrium and thermodynamics; understanding chemical reactions using kinetics, equilibrium and thermodynamics; comparing and contrasting the principal theories of acids and bases; solving equilibrium involving acids, bases and buffers; describing solubility equilibrium; describing terms associated with electrochemistry and solving problems associated with electrochemistry; and describing fundamentals and applications of nuclear chemistry and organic chemistry. Prerequisite: CHM-113. Co-requisite: CHM-115L.
CNS	CHM-115L	General Chemistry II Lab	1	The laboratory section of CHM-115 reinforces and expands the learning of principles introduced in the lecture course. Experiments include the determination of rate law, examples of Le Châtelier's principle, the use of pH indicators, buffer preparation, experimental determination of thermodynamic quantities, the use of electrochemical cells and qualitative and quantitative analysis. Prerequisite: CHM-113 and CHM-113L. Co-requisites: CHM-115
CHSS	COM-100	Fundamentals of Communication	4	This course is an introduction to the field of communication with an emphasis on the history of communication study, relevant communication theories guiding current research, the contexts in which communication occurs and issues faced by students of communication. The course focuses on introducing students to various communication models, as well as theories and skills in interpersonal communication, small group communication, mass communication, intercultural communication and public communication.
CHSS	COM-210	Public Speaking	4	This basic course in oral communication uses focused content to practice the principles of effective oral presentation. The lec-tures, speaking assignments and all written work will acquaint the student with the theory, practice and necessary technologi-cal literacy required for effective message building and presentation.
COT	CWV-101	Foundations of a Christian Worldview	4	A worldview acts like glasses through which one views the world. In this course, students explore the big questions that make up a worldview, questions like "Why are we here?" and "What is my purpose?" Students examine how Christians an-swer these questions and work on exploring their own worldviews, as well as learning how worldview influences one's perceptions, decision making and everyday life.
CAM	DFP-101	Introduction to Cinema: History and Aesthetics	4	This course covers multiple eras and movements throughout the age of film.
CAM	DFP-111	Digital Video Production I	4	This course introduces students to the technical and aesthetic aspects of small-format digital production, as well as the basic principles of motion picture production. Students are taught the language of film and digital video and how its manipulation can express one's individual message or purpose.

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COE	ECE-120	Early Childhood Foundations and the Teaching Profession	4	This course focuses on the foundations of early childhood education with an emphasis on the historical context, ethical practices, philosophical and psychological theories and current early childhood educational models, including the Montessori education model. Accepted teacher candidates will also examine the roles and expectations of early childhood educators and have the opportunity to reflect on and plan for their own professional development. Practicum/field experience hours: none; fingerprint clearance is not required.
COE	ELM-200	Child and Early Adolescent Development and Psychology	4	Accepted teacher candidates survey how children and early adolescents grow and develop, recognizing that patterns of learning and development vary individually within and across the cognitive, linguistic, social, emotional and physical areas while understanding the implications for designing and implementing developmentally appropriate and challenging learning experiences. This survey of the seminal concepts, principles, theories and research related to the development of children and young adolescents allows accepted teacher candidates to build foundational knowledge for constructing learning opportunities that support individual students' development, acquisition of knowledge and motivation. Practicum/field experience hours: None. Fingerprint clearance not required.
CHSS	ENG-105	English Composition I	4	This writing-intensive course in academic prose includes various essays, arguments and constructions.
CHSS	ENG-106	English Composition II	4	This writing-intensive course explores various types of research writing, focusing on constructing essays, arguments and research reports based on primary and secondary sources. Prerequisites: ENG-105.
CHSS	ENG-130	Introduction to Young Adult Literature	4	This course delves into critical approaches to literature that are of interest to young adult readers. Themes such as identity, culture, ethnicity, race, values, gender and censorship are among those explored through close readings and textual anal-yses of popular and historical fiction, nonfiction, graphic novels and dystopian literature.
CHSS	GOV-140	American Government and Politics	4	This course is an introduction to American government and politics. It covers the constitutional foundations and governing institutions of the federal government. Throughout the course, students address common political themes, such as the nature and scope of governance, democracy, citizenship and patterns of political behavior.
CHSS	GOV-210	Introduction to Comparative Government and International Politics	4	This course compares and contrasts various systems of gov-ernment in Western and non-Western countries, exploring political and diplomatic processes and how they affect internation-al relations, nations and localities.
CHSS	HIS-110	World History Themes	4	This course surveys global civilizations from Africa and the Americas to Eurasia as an overview of the principal cultural, political and economic themes that shaped world civilization.
CHSS	HIS-144	United States History Themes	4	This course provides an overview of the principal political, eco-nomic and cultural themes that shaped the United States from the Colonial period into the 20th century.

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CONHCP	HLT-205	Health Care Systems and Transcultural Health Care	4	This course introduces students to organizational dynamics and the complex structures of the U.S. health care system. Students consider social, historical and political influences that have shaped the modern health system and examine the mecha-nisms that enable access, delivery and financing of health services. This course also considers the ever-growing global per-spective of health care as students explore the health perspectives of varied racial, ethnic, religious and socioeconomic groups.
CCOB	HOS-200	Introduction to Hospital	4	This course introduces the hospitality industry and essential guest service and communication skills that ensure the efficient delivery of quality services. Students are taught the skills necessary to effectively communicate, meet the service quality expectations of a diverse clientele and appropri-ately represent their organizations.
COT	INT-244	World Religions	4	This course is a study of the major contemporary religions of the world, including Abrahamic religions, Eastern religions and other religions. The course covers religious texts, historical background and current beliefs and practices. Emphasis is given to the ideological foundations of a Chris-tian worldview, a comparison of worldviews and the appli-cation of worldviews within a global society.
CHSS	JUS-104	Introduction to Justice Studies	4	This course introduces the basic components of the criminal justice system in the United States today: corrections, courts and law enforcement.
CHSS	MAT-144	College Mathematics	4	This course covers mathematics that matters in modern society. Key areas of focus include financial literacy, numerically based decision-making, growth, scale and numerical applications. The course applies basic college-level mathematics to practical problems and is appropriate for students whose ma-jors do not require college algebra or higher.
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	MAT-252	Calculus and Analytic Geometry I	4	This course provides a rigorous treatment of the concepts and methods of elementary calculus and its application to practical problems. Topics include a brief review of linear, exponential, logarithmic, trigonometric and inverse functions; understanding and calculating limits, continuity and derivatives as rates of change; differentiation rules including derivatives of polynomials, exponentials, trigonometric and logarithmic functions; product and quotient rules, the chain rule and implicit differentiation; related rates, curve sketching, maximum and minimum problems, mean value theorem, linear approximation, indeterminate forms and L'Hospital's rule; and applied optimization problems, antiderivatives and approximating areas under the curve. Prerequisite: Grade of C or better in MAT-250 or MAT-261.

College	Course Code	Course Title	Credits	Course Description
CHSS	MAT-253	Calculus and Analytic Geometry II	4	This course provides a rigorous treatment of the concepts, methods and applications of integral calculus and is the second course in a three-course sequence. Topics include definite integrals, fundamental theorem of calculus and integration rules; arc length, solids of revolution and physical applications; techniques of integration including improper integrals and an introduction to differential equations; polar coordinates, parametric equations, infinite sequences and series; power series and conic sections; and vector arithmetic, dot product and projections. Prerequisite: Grade of C or better in MAT-252.
CHSS	MAT-261	Pre-Calculus	4	This course presents the fundamentals of algebra and trigonometry with some applications. It also provides the background and introduction for the study of calculus. Topics include a review of linear equations and inequalities in one and multiple variables; functions and their graphs; polynomial, rational, exponential, logarithmic and trigonometric functions; and systems of equations, matrices, sequences and series. Slope and rate of change are introduced to set up the concepts of limits and derivatives. There is an emphasis on an understanding of the mathematical concepts involved, as well as their applications to the principles and practical problems encountered in science and engineering. Technology is utilized to facilitate problem analysis and graphing. Prerequisite: MAT-134 or MAT-154.
CHSS	MAT-274	Probability and Statistics	4	This course provides an introduction to the study of basic probability, descriptive and inferential statistics and decision-making. Emphasis is placed on measures of central tendency and dispersion, correlation, regression, discrete and continuous probability distributions, quality control population parameter estimation and hypothesis testing. Prerequisites: Grade of C or better in MAT-134, MAT-144 or MAT-154. <i>Please be aware that this course carries a noticeably higher academic intensity and rigor.</i>
CAM	MUS-210	Music Appreciation	4	This course introduces the study of the intellectual, emotional and aesthetic nature of music, its history, theory and literature. It explores the major works of great composers and explores the elements that contribute to their longevity. Students learn to appreciate and critique live performances.
CHSS	PCN-100	Foundations of Addiction and Substance Use Disorders	4	This course provides foundational knowledge regarding addic-tion and substance use disorders. Topics studied include biopsychosocial dynamics; stages, processes and impact of addiction and substance use; and the role of the addiction professional in prevention, intervention, relapse prevention and aftercare. In addition, the course provides overviews of the substance abuse counselor's code of ethics, HIPAA and legal issues involved in counseling.
CHSS	PCN-107	Introduction to Counseling Theories	4	This course provides foundational knowledge in theoretical approaches to counseling. Theoretical models studied include psychodynamic, existential, Gestalt, person-centered, cognitive and behavioral therapies, family systems and narrative- and solution-focused therapies.
СОТ	PHI-103	Introduction to Philosophy and Ethics	4	This course is an introduction to the discipline of philosophy through a study of representative philosophical problems. Students are introduced to analytic tools that enable them to practice critical thinking, evaluate knowledge claims and es-tablish a rationale and justification for other academic disci-plines. Topics to be considered include logic, epistemology, metaphysics and ethics.

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CNS	PHY-111	General Physics I	3	This course is a study of basic concepts of physics, including motion, forces and energy; the properties of solids, liquids and gases and heat and thermodynamics. The mathematics used includes algebra, trigonometry and vector analysis. A primary course goal is to build functional knowledge that allows students to fully understand the physical world and apply that understanding to other areas of the natural and mathematical sciences. Conceptual, visual, graphical and mathematical models of physical phenomena are stressed. Students build critical thinking skills by engaging in individual and group problem-solving sessions. Prerequisites: MAT-250, MAT-261 or College Algebra, Co-requisite: PHY-111L
CNS	PHY-111L	General Physics I Lab	1	This course utilizes lab experimentation to practice concepts of physical principles introduced in the PHY-111 lecture course. Students can perform the proper analysis and calculations to arrive at the correct quantifiable result when confronted with equations involving gravity, sound, energy and motion. Prerequisite: MAT-250, MAT-261 or College Algebra. Co-requisite: PHY-111.
CNS	PHY-112	General Physics II	3	This course is the second in a one-year introductory physics sequence. In this course, the basics of three areas in physics are covered, including electricity and magnetism, optics and modern physics. Course topics include an introduction to electric and magnetic fields, the nature of light as an electromagnetic wave, geometric optics, quantum mechanics and nuclear reactions. Prerequisites: PHY-111 and PHY-111L. Co-requisite: PHY-112L.
CNS	PHY-112L	General Physics II Lab	1	This course utilizes lab experimentation to practice concepts of physical principles introduced in the PHY-112 lecture course. Some of the topics learners understand and analyze involve the relationship between electric charges and insulators/conductors, magnetism in physics, energy transformations in electric circuits, the relationship between magnetism and electricity and how they relate to the medical industry. Prerequisites: PHY-111 and PHY-111L. Co-requisite: PHY-112L.
CHSS	PSY-102	General Psychology	4	This foundational course in the science of behavior includes an overview of the history of psychology, the brain, moti-vation, emotion, sensory functions, perception, intelli-gence, gender and sexuality, social psychology, human development, learning psychopathology and therapy.
CHSS	SOC-102	Principles of Sociology	4	This course presents a survey of the concepts, theories and methods used by sociologists to describe and explain the effects of social structure on human behavior. It emphasizes the understanding and use of the sociological perspective in everyday life.
CHSS	SPA-104	Elementary Spanish I	4	This course builds a foundation in the language development skills of listening, speaking, reading and writing. The course textbook is supported by an extensive workbook and online lab, which allows students to hear Spanish spoken by native speakers. Students practice their spoken Spanish through face-to-face activities or by recorded wave files. Additionally, students are prompted to grow in global awareness through participation in cultural events in their communities, reviewing movies set in Hispanic cultural settings and reading books in English by Hispanic authors about Hispanic culture.

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CHSS	SPA-105	Elementary Spanish II	4	This course is a continuation of SPA-104. Prerequisite: SPA-104.
CHSS	SPA-214	Intermediate Spanish I	4	This course further builds Spanish vocabulary and language structure. Oral practice, short compositions, textbook readings and cultural activities are stressed. It will include some study of Spanish-language cultures. Prerequisite: SPA-105.
CHSS	SPA-224	Intermediate Spanish II	4	This course continues to build on vocabulary, language structure, oration and composition skills. It will include some study of Spanish-language cultures. Prerequisite: SPA-214.
CAM	TRE-130	Stagecraft	4	This course is the study of set and prop construction. Practical application of construction techniques is gained through theatrical productions.
САМ	TRE-145	Acting I	4	This course identifies principles of pantomime and dramatic action designed to establish the proper relationship of the voice to the body and its functions in the interpretation of character. This course is designed to help develop physical presence and facility in the actor, vocalist, theater, athlete and other persons involved in public performance.

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