

9th Grade Course Descriptions

Required Classes

Math Skills UBSCT: This course will focus on coordinate graphing, ratios, proportions, probability, area, perimeter, volume, solving 1 and 2 step equations, linear functions, properties of integers and linear relationships. All students will develop knowledge of and skills in the use of vocabulary, forms of representation, materials, tools, techniques, and the intellectual methods to prepare them for Algebra.

Algebra 1: This course will focus on linear, quadratic and exponential relationships including the properties of their tables, graphs and equations. Students will learn how to solve multi-variable equations, and inequalities by graphing and algebraic methods. Students will learn to reason and communicate proficiently in mathematics. Students will develop knowledge of and skills in the use of vocabulary, forms of representation, materials, tools, techniques, and the intellectual methods of Algebra.

Geometry: This course will focus primarily on patterns and inductive reasoning, properties of points, lines, and planes, formal and informal proofs, properties of perpendicular and parallel lines, properties of polygons and circles, similarity and will also include an introduction to trigonometry. It is essential that students have a strong Algebra foundation before taking this class.

Algebra 2: this course is an extension of the concepts covered in Algebra 1 and will continue to focus on functions and their properties with the addition of absolute functions, and logarithmic functions as well as an introduction of the set of complex numbers. The properties of matrices, statistically analysis, trigonometry and

solving systems of equations will also be major points of emphasis. Students should know how to reason and communicate effectively in mathematics and should have mastered the skills of Algebra 1 before taking this course.

Earth Systems: This class explores the connections between systems in the oceans, atmosphere, organisms, space, and inside the earth. Problem-solving skills are sharpened through labs focused on such topics as lightning, earthquakes, hurricanes, and space. Real life experiences and connections make this class practical.

Biology: The themes in biology are the relationship of structure to function, and how the environment affects interactions between organisms and evolution of species. Students in biology will study cells, organs, and organ systems, how genetic diversity is a result of evolution and how organisms interact with one another and their environment. Hands on labs and assignments allow students to explore the relevancy of biology in their lives.

World Geography/World Civilizations: This course covers the five themes of geography. Students will study the various cultures of the world, including the way they live, political and social trends, and advancing technology. They will utilize geographic skills to understand the practical application of geography to everyday life through the use and study of maps.

9th Grade PE: Skills and techniques in a variety of team and individual sports are taught. Running and exercise skills are taught to improve physical fitness.

Elective Courses

Aerobics: This total body fitness class involves cardiovascular exercises as well as body toning exercises. Basic principles of fitness will be taught and applied in class.

Cross Training: Individualized instruction will be given in several areas which are needed for higher levels of fitness. These will include advanced strength training and flexibility techniques, aerobic conditioning, anaerobic conditioning, and diet.

Tech 1: This hands-on class emphasizes design, teamwork, shop safety, and engineering, and touches on flight, aerodynamics, and other types of transportation. CAD activities and robotics are included as computer based activities. An additional \$20.00 supply fee may be required.

Tech 2: This hands-on class emphasizes design, teamwork, shop safety, and engineering, and touches on flight, aerodynamics, types of transportation, and advanced wood turning. An introduction to communications is also included. Prerequisite: Tech 1. An additional \$20.00 supply fee may be required.

Communications Technology: This is a computer-based class. There are no shop activities. Students will learn about communication through digital photography, video, scanning, silk screen, product design, and printed materials. As a final project, students will be creating a digital video autobiography or family history which must include both pictures and video. An additional \$20.00 supply fee may be required.

Computer Technology: An introduction to computer application software that encompasses document processing, spreadsheets, and presentations. An understanding of ethics and use of operating systems. Information resources and electronic mail are included. This course is required for graduation and must be taken some time during high school.

Clothing 1: This course introduces the students to basic clothing construction techniques, machine maintenance, serger skills, textiles, and clothing care. Additional materials are required to be supplied by the student.

Clothing 2: This course introduces students to basic sewing, serger, and pressing equipment, reviews the types of fabric construction and makes intermediate level projects using correct construction techniques. Prerequisite: Clothing 1. Additional materials are required to be supplied by the student.

Foods 1: This course is designed for students who are interested in understanding the principles of nutrition and in maintaining a healthy life style. Attention will be given to the selection and preparation of food and personal health and well-being.

Peer Tutor: Students will be trained to assist those students with special needs to learn and practice academic, social skills, life skills and appropriate behavior.

Aide-Teacher, Office or Media: Students help teacher or office staff with a variety of assignments. Teacher approval, good citizenship and attendance are required.

Orchestra-Beginning: Designed for students who have had little or no previous experience playing violin, viola, cello, or string bass, but would like to learn. Summer Orchestra is *strongly* recommended for all Beginning Orchestra students.

Orchestra-Intermediate: Designed for violin, viola, cello, or string bass students who have successfully completed Beginning Orchestra. Students audition for placement in this class.

Orchestra-Advanced: Designed for violin, viola, cello, or string bass students who have successfully completed Intermediate Orchestra. Students audition for placement in this class.

Band-Beginning: Students will learn to perform on a wind instrument of their choosing. Students will learn to read music with an emphasis on good tone quality and intonation, as well as rhythmic accuracy. At least three public performances will be given during the school year.

Concert Band: This intermediate instrumental ensemble is directed towards building music performance skills.

Symphonic Band: The first of two audition concert bands. Symphonic band students are expected to know all 12 major scales, play with a clear focused tone with good intonation, and play advanced rhythmic figures.

Advanced Wind Symphony: This is the higher-level audition concert band. Students are expected to know all 12 major scales, as many two octave scales as possible and to play with a clear focused tone with good rhythmic intonation. They are also expected to know the 12 minor scales and play advanced rhythmic figures.

Jazz Band: This pre-curricular audition band consists of some of the finest musicians at Canyon View. They will learn the art of solo improvisation within the following styles: rock, swing, ballad, funk reggae and Latin.

Guitar 1: This is an introduction to playing the guitar. Students will learn chording, note-reading, and rhythms. Students must have their own acoustic guitar.

Boys' Chorus: Introduction to proper vocal technique, performing, music history, and reading music. Students will be exposed to composing and history, and reading music. Students will be exposed to composing and arranging, movement through music, and various musical styles.

Chorus SSA-Treble Trios: This is an audition women's choir for continuing the development of proper vocal technique, performing, music history, and reading music. Students will be exposed to composing and arranging. Students will strengthen music listening skills as well as their ability to analyze and evaluate music and music performances. There is a \$50.00 wardrobe fee for this class.

Chorus Audition- Footnotes: This audition mixed choir is for continuing the development of proper vocal technique, performing, music history, and reading music. Students will be exposed to composing and arranging, movement through music, and various musical styles. Students will strengthen music listening skills as well as their ability to analyze and evaluate music and music performances. There is a \$100.00 wardrobe fee for this class.

Art Foundations 1: Introduction to visual arts through projects that explore the elements of art and principles of design, art history, art aesthetics, and art criticism. A \$15.00 supply fee may be required.

Drawing 1: Developing and improving drawing skills by trying various techniques and mediums on classroom projects. Focus is mainly on black and white drawing. A \$15.00 supply fee may be required.

Crafts/ 3D Design: Exploration of 3 D art through the folk arts, which include mask making, weaving, stained glass, puppetry and string art. A \$15.00 supply fee may be required.

Photo 1: Intensive camera basics. Introduction to and use of the camera and the darkroom to expose, process and produce black and white film and prints. Learning good composition techniques. A 35-mm camera is required. A \$15.00 supply fee for this class may be required.

Photo 2: Further exploration of film and darkroom use. Color will be used as well as some digital applications. A 35-mm camera is required. Prerequisite: Photo 1. There may be a \$15.00 supply fee for this class.

Digital Photography: Includes the inventive use of light, photographic equipment and the computer to create photographic works of art. There is an emphasis on the use of the computer to edit works of art. This course is designed to develop higher-level thinking, art-related technology skill, art criticism, art history, and aesthetics. A digital camera is required. There may be a \$10.00 supply fee.

Beginning Ceramics: Develops basic skills in the creation of 3D forms and pottery from clays. With an emphasis on studio production, this course is designed to develop higher-level

thinking, art-related technology skill, art criticism, art history, and aesthetics. There may be a \$10.00 supply fee for this class.

Intermediate Ceramics: Applies the basic skills learned in Beginning Ceramics to create three-dimensional works of art of higher quality with an introduction to the use of the potter's wheel. With an emphasis on studio production, this course is designed to develop higher-level thinking, art-related technology skills, art criticism history, and aesthetics. Prerequisite: Ceramics 1. There may be a \$10.00 supply fee for this class.

Roots: This social studies class combines the fundamentals of family history research with social history and emphasized how individuals and family life have adapted to changing times throughout history.

Creative Writing: this course is intended for beginning and more advanced writers looking to improve their writing skills. The focus will be on poetry, short stories, and how to get published. Students are expected to write and share their work with the rest of the class.

Drama 1: Introduction to the art through understanding theatre history, use of body and voice, individual and group performance skills, and reading and understanding the literature of the art. A basic exposure to live theatre is included.

Stage Crew: A beginning understanding and execution of the art of set design and construction. Covers the care and safe use of tools, the design, function and execution of sets and props used in school theatre productions, the requirements of creating for live theatre. These students do not learn the use of light or sound equipment.

Spanish 1/French 1: In Level 1, students begin to communicate sufficiently to satisfy basic survival needs and courtesy requirements. They can ask and answer some simple questions, respond to and initiate simple statements and maintain basic conversation. Students understand and interpret written and spoken language on a variety of topics in the present tense. Students will be introduced to cultural topics.

Spanish 2/French 2: In level 2, students develop further communications skills and be able to satisfy most survival needs and limited social demands. They can give autobiographical information and discuss leisure time activities. Students are able to present information and ideas to an audience. They can describe characteristics and behaviors of everyday life in the target culture and appreciate cultural art forms.

Spanish 3/French 3: In level 3, students can satisfy routine social demands and limited work requirements. They can state and support opinions as well as exchange information. They can comprehend and respond to written communication. In speaking and writing, they can narrate, describe and explain in past, present, and future. They can identify key historical events as they relate to this culture, and they

Spanish 4: In level 4/AP language, students begin a cycle of advanced understanding and performance in the language. They can exchange personal opinions for the purpose of persuading others. They can use a variety of language strategies, and they can read and write factual information accurately. They read excerpts of literature. They discuss and respond to what they read.

