SAN MARCOS CONSOLIDATED INDEPENDENT SCHOOL DISTRICT

Course Selection Guide

2024 - 2025

A Welcome to Students and Parents

The purpose of this guide is to assist students and parents in planning a course of study tailored to individual student needs, interests, and aspirations. After an introductory section on general requirements, grades, and endorsements, the catalog of courses provides a brief description of the prerequisites and content of the courses San Marcos CISD offers. These descriptions should be consulted in selecting courses for next year. Students and parents with questions regarding courses and the implications of selecting them are encouraged to consult with school counselors. Information in this guide is accurate as of date of printing and subject to change at any time due to updates in local, state, and federal policies.

Students and Parents: Review the state and local course requirements included in the guide.

- Consider your post-secondary education plans and career interests. Decide which college or other post-secondary institutions you might attend.
- Review the core course and elective offerings.
- Complete the course selection process as directed by your school counselor and/or advisor.

Availability of courses listed in the program guide depends on student requests, staffing and other resources at each campus.
San Marcos Consolidated Independent School District provides equal educational opportunity without regard for race, color, religion, national origin, sex, gender, disability, and/or age.

San Marcos CISD's Core Commitments are…

Student Performance
SMCISD is committed to all students performing at or above grade level.

Academic Rigor
SMCISD is committed to establishing a rigorous academic culture where all students graduate college and career ready.

Culture
SMCISD is committed to creating a culture of high expectations for performance & professionalism.

Achievement Gaps
SMCISD is committed to eliminating achievement gaps within student populations.

Community
SMCISD is committed to meaningful, reciprocal partnerships and opportunities which serve students, families, and the San Marcos community.

San Marcos CISD Graduates are…

Critical Thinkers with the knowledge, skills, and habits to thrive in any future path.

Emotionally Intelligent Learners who build a sense of purpose, develop empathy for others, cultivate strong relationships, and show respect for all cultures

Collaborative Learners that tackle complex challenges through collaboration, communication, and self-direction

Active Citizens who explore, celebrate, and improve their community

Message from the Superintendent

Dear Students, Parents, and Guardians:

San Marcos CISD's course guide contains important information for you to plan the courses you will take during the 2023-2024 school year. The guide has been carefully developed to provide important information for both students, families and guardians.

San Marcos High School offers a wealth of options for you to choose from as you prepare for your future college and career endeavors. Choosing courses that are right for you is based on your career goals, individual interests, graduation requirements, and admission requirements for colleges and universities. Challenge yourself to enroll in as many advanced placement (AP) courses as possible. Think about careers that interest you and take full advantage of the growing number of Career Technical Education (CTE) courses at your school.

Our academic counselors, teachers, and school administrators are available to answer any questions you may have. We are here to support you and to ensure that you have the appropriate courses to help you achieve. Have a successful school year!

Sincerely,

Michael A. Cardona, Ed.D.
Superintendent

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Graduation Requirements

During the 83rd Texas Legislature House Bill 5 was signed into law, which changed high school graduation requirements for students who are freshmen beginning with the 2014-2015 school year. The bill provides more flexibility for high school students to pursue either a higher education, career, or military pathway. It establishes one graduation plan - Foundation High School Plan (FHSP) - with an opportunity to earn endorsements and performance acknowledgements.

Below is a snapshot of the graduation requirements. Prior to completion of the student's 9th grade year, students will select an endorsement pathway, as per House Bill 5. In the spring of each school year, students and parent/guardian will work with a San Marcos High School (SMHS) counselor to select courses for the following school year and review graduation requirements and progress toward endorsement(s).

Foundation with Endorsement (26 Credits)	Distinguished Level of Achievement (26 Credits)
• **4 credits English** - English I, II, III, and VI or one credit in any authorized advanced • **4 credits Mathematics** - Algebra I, Geometry, and two credits in any authorized advanced Mathematics course English course • **4 credits Science** - Biology, Chemistry or Physics, and two advanced science courses • **4 credits Social Studies** - World Geography, World History, US History, US Government, and Economics • **2 credits World Language†** or **Computer Science** • **1 credit Physical Education** or **PE Equivalent** • **1 credit Fine or Performing Arts** • **6 credits in electives** (may include CTE or certification courses)	• **4 credits English** - English I, II, III, and VI or one credit in any authorized advanced • **4 credits Mathematics** - Algebra I, Geometry, Algebra II and one credit in any authorized advanced Mathematics course • **4 credits Science** - Biology, Chemistry or Physics, and two advanced science courses • **4 credits Social Studies** - World Geography, World History, US History, US Government, and Economics • **2 credits World Language†** or **Computer Science** • **1 credit Physical Education** or **PE Equivalent** • **1 credit Fine** or **Performing Arts** • **6 credits in electives** (may include CTE or certification courses)

† World language credits must be in the same language

Endorsements

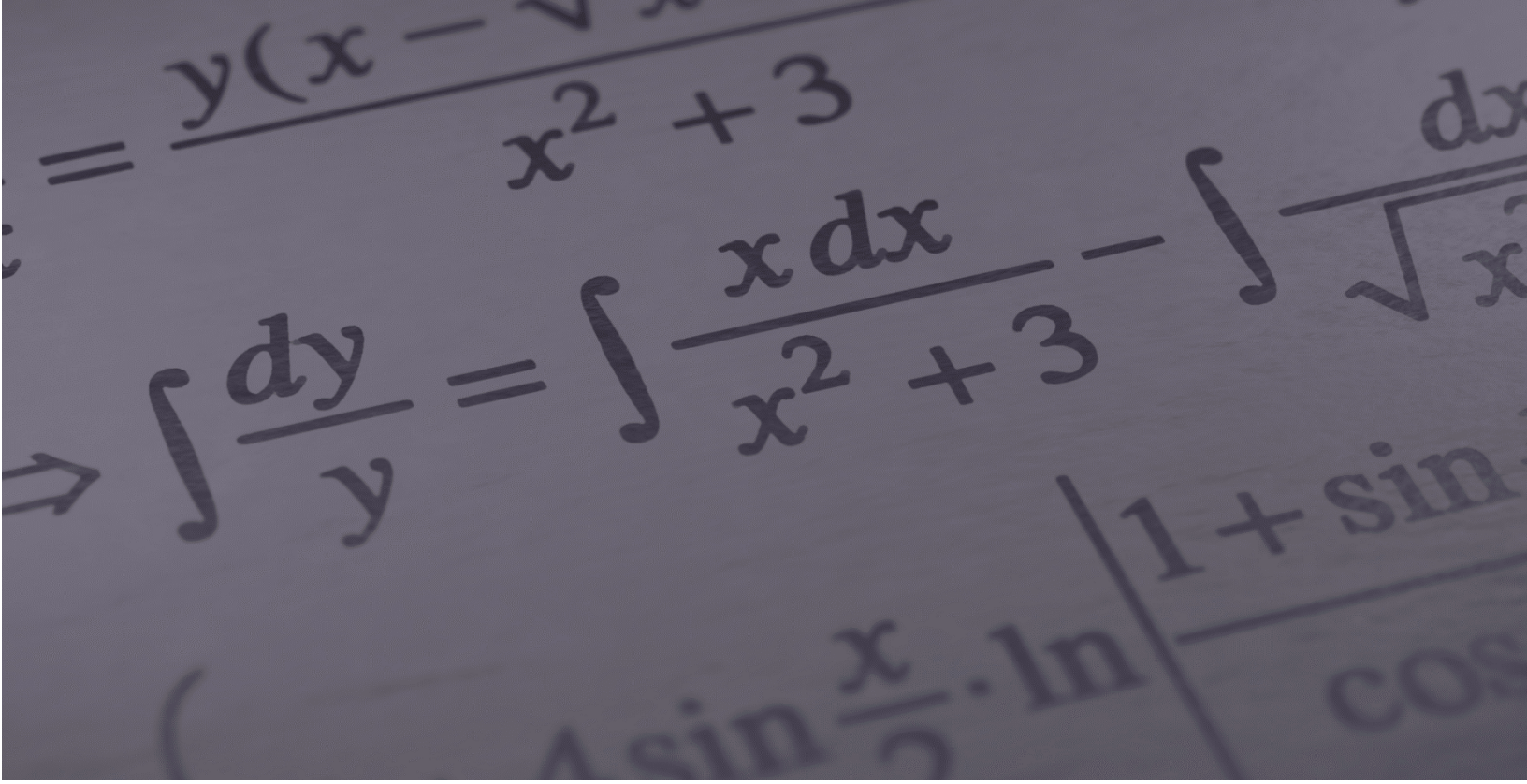
STEM	Business / Industry	Public Service	Arts / Humanities	Multidisciplinary Studies
• CTE STEM • Mathematics • Science • Computer Science	• Agriculture • Arts • Audio/Video • Finance, Marketing, Food and Natural Resource, Architecture and Construction, Transportation and Logistics • Information Technology • Manufacturing • Technology Applications • Technology and Communications • Business Management and Administration	• Human Services • Law • Corrections and Security • Health Science • Public Safety • Education and Training • Government and Public Administration • JROTC	• 2 levels of LOTE in 2 languages • 4 levels of LOTE in 1 language • Social Studies • Courses from 1 or 2 areas of Fine Arts • American Sign Language	• 4 advanced courses form other endorsement areas • 4 credits in each foundation subject area, including English 4, Chemistry and/or Physics • 4 credits in AP, IB, Dual Credit selected from English, Mathematics, Science, Social Studies, Economics, LOTE or Fine Arts

State Assessments Required for Graduation	Performance Acknowledgements
English I, II; Algebra I; Biology; US History	Outstanding Performance; Dual Credit coursework; Bilingualism/Biliteracy; College AP; PSAT, SAT or ACT

Courses: English Language Arts

English I Course Number: 1121 Offered In: 9 Credits: 1 credit Prerequisites: Successful completion of 8th grade	In this course, students review and practice comprehension and close reading strategies, including using annotations and notes to make predictions, generate questions, make connections, identify key ideas based on text evidence, summarize and paraphrase to understand an author's message. Students focus on understanding the author's background, author's purpose, intended audience, and context before attempting to understand text meaning in self-selected texts. Students will also participate in core study of a variety of genres (poetry, drama, literary fiction and non-fiction) as a whole class. Students understand a text on a deeper level by creating and sharing personal connections derived from annotations and evaluating ideas in other texts. Students also practice fundamentals of research by reading and analyzing a variety of sources to gather and synthesize reliable, credible information in order to learn about a topic.
English I PreAP Course Number: 1135 Offered In: 9 Credits: 1 credit Level: Advanced Prerequisites: None	The curriculum for English I Advanced is designed for students reading above grade level and having strong grammar knowledge and skills. The course exceeds the regular course material in content and depth and assumes a level of grammatical ability that does not require extended instruction or review. The course is intended to increase and refine the student's critical reading and writing skills. Attention will be focused on improving the student's communication skills, particularly written, in exposition, critical analysis, persuasion, argumentation, and narration.
English II Course Number: 1221 Offered In: 10 Credits: 1 credit Level: On Level Prerequisites: English I	In this course, second-year high school students build upon the skills they have learned in English I. Students review and practice close reading strategies, such as annotations and employ focused note taking strategies. Students continue to develop their understanding of author's background, purpose, and intended audience. They also continue to read self-selected texts as well as study core texts from a variety of genres (poetry, drama, novels, nonfiction) as a class. This course also builds on students' abilities to gather and synthesize reliable, credible information in order to learn about a topic.
English II PreAP Course Number: 1235 Offered In: 10 Credits: 1 credit Level: Advanced Prerequisites: None	The curriculum for English II Advanced is designed for students to continue to increase and refine reading skills in a fast-paced, challenging academic environment. Students will read literary texts written in a variety of periods, disciplines, rhetorical contexts, and literary genres. They will analyze these texts for structure and literary elements, including style, theme, figurative language, imagery, symbolism, and tone. Additionally, students will consider a work's literary merits as well as the social and historical context reflected in the text.

English III Course Number: 1323 Offered In: 11 Credits: 1 credit Level: On Level Prerequisites: English II	In this course, third-year high school students build up their previously learned skills in the English classroom. While employing their close reading skills, students read multiple fictional, literary/narrative nonfiction, poetry, and drama texts to identify and analyze the similarities and differences in genre characteristics, literary elements, and literary devices commonly employed in these texts as well as how these features impact an author's message. Students analyze perspectives and themes represented in the texts while employing strategies to support comprehension such as interacting with the text through note taking and annotating. Students study the concept of author's message (theme), literary elements and devices, genre characteristics, author's craft, historical context, and the relationship between these features.
English III AP Course Number: 1335 Offered In: 11 Credits: 1 credit Level: Advanced Prerequisites: None	In this course, third-year high school students build up their previously learned skills in the English II classroom. This course is fast paced. Students will be required to do work outside of the classroom. The expectations placed on students will be high and the reading material will be at a 1st year college level. Students will be required to read, annotate and write at a high-level. This course will stress college readiness. Students will primarily read nonfiction texts such as autobiographies, opinion pieces, political speeches and many more. Students will read and analyze rhetorical elements and their effects in nonfiction texts.
English IV Course Number: 1421 Offered In: 12 Credits: 1 credit Level: On Level Prerequisites: English III	In this final English course for fourth-year high school students, students will analyze a variety of informational and argumentative texts for key ideas and the way in which organizational patterns and text features convey ideas. To develop a deeper understanding of their reading, students summarize and paraphrase texts as part of the comprehension process and utilize text evidence to support their understanding.
English IV AP Course Number: 1435 Offered In: 12 Credits: 1 credit Level: Advanced Prerequisites: None	In this course, four-year high school students build up their previously learned skills in the English III classroom. This course is fast paced. Students will be required to do work outside of the classroom. The expectations placed on students will be high and the reading material will be at a college level. This course will stress college readiness. Students will primarily read texts from multiple literary movements.
English 1301 Dual Credit Course Number: 1324 Offered In: 11-12 Credits: 1 credit Level: Advanced Prerequisites: TSI Test	This writing intensive first semester freshman composition course focuses on the writing of researched argumentative expository and persuasive papers. Analytical reading, critical thinking, and library-based research skills are emphasized. Essays, including a 2000 word documented library research-based paper are required. Recommended Prerequisite: Pass local assessment test. Three class hours per week. Credit: Three semester hours
English 1302 Dual Credit Course Number: 1324 Offered In: 11-12 Credits: 1 credit Level: Advanced Prerequisites: TSI Test	This reading and writing intensive Recommended Prerequisite for sophomore English offerings further develops the analytical, thinking, and research skills underlying academic success through the study of literature. The student's writing of genre-based essays, including researched papers, reinforces the thinking skills associated with interpretation, explication, evaluation, analysis, and synthesis. Essays, including a 2000-word documented library research-based on literary topic are required.



Courses: Math

Algebra I Course Number: 2321 Offered In: 7-9 Credits: 1 credit Prerequisites: None	Students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions.
Algebraic Reasoning Course Number: 2332 Offered In: 9-10 Credits: 1 credit Prerequisites: Administrative Placement, Algebra I	In Algebraic Reasoning, students will continue with the development of mathematical reasoning related to algebraic understandings and processes, and deepen a foundation for studies in subsequent mathematics courses.
Geometry Course Number: 2421 Offered In: 9-10 Credits: 1 credit Prerequisites: Algebra I	Within the course, students will begin to focus on terminology that is more precise, symbolic representations, and the development of proofs.
Geometry PreAP Course Number: 2435 Offered In: 9-10 Credits: 1 credit Prerequisites: Algebra I	While the basic curriculum for Geometry and Geometry Pre-AP is the same, students in Geometry Pre- AP will study the concepts in more depth through complex application problem solving, higher-level reasoning, and independent investigation of mathematical concepts and theories.
Math Models with Applications Course Number: 2220 Offered In: 10-12 Credits: 1 credit Prerequisites: Algebra I	This mathematics course provides a path for students to succeed in Algebra II and prepares them for various post-secondary choices. Students learn to apply mathematics through experiences in personal finance, science, engineering, fine arts, and social sciences. Students use algebraic, graphical, and geometric reasoning to recognize patterns and structure, model information, solve problems, and communicate solutions.

Algebra II Course Number: 2331 Offered In: 9-12 Credits: 1 credit Prerequisites: Algebra 1	Students will broaden their knowledge of quadratic functions, exponential functions, and systems of equations. Students will study logarithmic, square root, cubic, cube root, absolute value, rational functions, and their related equations.
Algebra II PreAP Course Number: 2335 Offered In: 9-12 Credits: 1 credit Prerequisites: Algebra 1	While the basic curriculum for Algebra II and Algebra II Pre-AP is the same, students in Algebra II Pre-AP will study the concepts in more depth through higher-level algebraic reasoning with emphasis on functional relationships and problem solving in real situations.
Advanced Quantitative Reasoning Course Number: 2260 Offered In: 10-12 Credits: 1 credit Prerequisites: Geometry and Algebra II	In Advanced Quantitative Reasoning, students will develop and apply skills necessary for college, careers, and life. Course content consists primarily of applications of high school mathematics concepts to prepare students to become well-educated and highly informed 21st century citizens.
Pre-Calculus Course Number: 2530 Offered In: 10-12 Credits: 1 credit Prerequisites: Algebra I, Geometry, and Algebra II	Pre-Calculus is the preparation for calculus. The course approaches topics from a function point of view, where appropriate, and is designed to strengthen and enhance conceptual understanding and mathematical reasoning used when modeling and solving mathematical and real-world problems. Students systematically work with functions and their multiple representations.
Pre-Calculus PreAP Course Number: 2535 Offered In: 10-12 Credits: 1 credit Prerequisites: Algebra I, Geometry, and Algebra II	This College Preparatory mathematics course is designed for the academically talented student who will devote the time and effort necessary to succeed in its rigorous curriculum. It is fast paced and requires students to use their Algebra, Geometry, and Arithmetic skills to solve complex real-world application problems.
Statistics and Business Decision Making Course Number: 2612 Offered In: 10-12 Credits: 1 credit Prerequisites: Algebra I	Students will use a variety of graphical and numerical techniques to analyze patterns and departures from patterns to identify and manage risk that could affect an organization. Students will use probability as a tool for anticipating and forecasting data within business models to make decisions.
Engineering Mathematics Course Number: 6750 Offered In: 10-12 Credits: 1 credit Prerequisites: Algebra I and Algebra II	Engineering Mathematics is a course where students solve and model robotic design problems. Students use a variety of mathematical methods and models to represent and analyze problems involving data acquisition, spatial applications electrical measurement, manufacturing processes, materials engineering, mechanical drives, pneumatics, process control systems, quality control, and robotics with computer programming.
College Math Prep Course Number: 2636 Offered In: 12 Credits: 1 credit Prerequisites: Algebra I	This course emphasizes increasing students' mathematical reasoning skills, which are key to solving problems, formulating logical arguments, understanding quantitative features of various disciplines, critically analyzing media sources, and searching for patterns.
AP Computer Science A - Math Course Number: 6378 Offered In: 11-12 Credits: 1 credit Prerequisites: Algebra II and Pre-Calculus	Computer Science AP is a first- or second-year programming course in the JAVA language. It is the equivalent of a first-semester college-level course in computer science. This course focuses on the basic principles of object-oriented programming (OOP), with an emphasis on data structures, program design, abstraction, and algorithmic problem solving.

AP Statistics Course Number: 2610 Offered In: 10-12 Credits: 1 credit Prerequisites: Algebra I, Algebra II, and Geometry	Learn about the major concepts and tools used for collecting, analyzing, and drawing conclusions from data. You will explore statistics through discussion and activities, and you will design surveys and experiments.
AP Calculus AB Course Number: 2545 Offered In: 11-12 Credits: 1 credit Prerequisites: Algebra I, Algebra II, Geometry and Pre-Calculus	Explore the concepts, methods, and applications of differential and integral calculus. You will work to understand the theoretical basis and solve problems by applying your knowledge and skills.
AP Calculus BC Course Number: 2555 Offered In: 12 Credits: 1 credit Prerequisites: Algebra I, Algebra II, Geometry and Pre-Calculus	Explore the concepts, methods, and applications of differential and integral calculus, including topics such as parametric, polar, and vector functions, and series. You will perform experiments and investigations and solve problems by applying your knowledge and skills.
Independent Study Course Number: 2108D Offered In: 12 Credits: .5 credit Prerequisites: Algebra I, Algebra II, Geometry and Pre-Calculus	This is a college level course taken at a university or community college. Students will extend their mathematical understanding beyond the Algebra II level in a specific area or areas of mathematics such as theory of equations, number theory, non-Euclidean geometry, linear algebra, advanced survey of mathematics, or history of mathematics.

Courses: Science

Biology Course Number: 3221 Offered In: 9-10 Credits: 1 credit Prerequisites: None	In Biology, students conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Biology study a variety of topics that include: structures and functions of cells and viruses; growth and development of organisms; cells, tissues, and organs;
Biology PreAP Course Number: 3231 Offered In: 9 Credits: 1 credit Prerequisites: None	In Biology, students conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Biology study a variety of topics that include: structures and functions of cells and viruses; growth and development of organisms; cells, tissues, and organs; nucleic acids and genetics; biological evolution; taxonomy; metabolism and energy transfers in living organisms; living systems; homeostasis; and ecosystems and the environment.
Chemistry Course Number: 3321 Offered In: 10-12 Credits: 1 credit Prerequisites: 1-year Science, Algebra I and concurrent enrollment in a 2nd year of Math	In Chemistry, students conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include characteristics of matter, use of the Periodic Table, development of atomic theory and chemical bonding, chemical stoichiometry, gas laws, solution chemistry, thermochemistry, and nuclear chemistry. Students will investigate how chemistry is an integral part of our daily lives.
Chemistry PreAP Course Number: 3331 Offered In: 10-12 Credits: 1 credit Prerequisites: 1-year Science, Algebra I and concurrent enrollment in a 2nd year of Math	In Chemistry, students conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include characteristics of matter, use of the Periodic Table, development of atomic theory and chemical bonding, chemical stoichiometry, gas laws, solution chemistry, thermochemistry, and nuclear chemistry. Students will investigate how chemistry is an integral part of our daily lives.

Physics Course Number: 3421 Offered In: 11-12 Credits: 1 credit Prerequisites: 2 years Science, Algebra II or concurrent enrollment in Pre-Cal	In Physics, students conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: laws of motion; changes within physical systems and conservation of energy and momentum; forces; thermodynamics; characteristics and behavior of waves; and atomic, nuclear, and quantum physics.
Integrated Physics and Chemistry (IPC) Course Number: 3121 Offered In: 9-10 Credits: 1 credit Prerequisites: None	In Integrated Physics and Chemistry, students conduct laboratory and field investigations, use scientific practices during investigation, and make informed decisions using critical thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry in the following topics: force, motion, energy, and matter. Students wanting to take this course will need prior approval from a counselor.
Environmental Systems Course Number: 3230 Offered In: 11-12 Credits: 1 credit Prerequisites: None	In Environmental Systems, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: biotic and abiotic factors in habitats, ecosystems and biomes, interrelationships among resources and an environmental system, sources and flow of energy through an environmental system, relationship between carrying capacity and changes in populations and ecosystems, and changes in environments.
Biology (AP) Course Number: 3235 Offered In: 11-12 Credits: 1 credit Prerequisites: Biology and Chemistry	AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions.
Advanced Placement (AP) Chemistry Course Number: 3335 Offered In: 11-12 Credits: 1 credit Prerequisites: Algebra II and Chemistry	The AP Chemistry course provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore content such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium.
Environmental Science Advanced Placement (AP) Course Number: 3522 Offered In: 11-12 Credits: 1 credit Prerequisites: Algebra II	The AP Environmental Science course is designed to engage students with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography.
Physics 1 Advanced Placement (AP) Course Number: 3436 Offered In: 11-12 Credits: 1 credit Prerequisites: Geometry and Algebra II (can be taken concurrently)	AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore these topics: kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, torque and rotational motion, electric charge and electric force, DC circuits, and mechanical waves and sound.

Physics 2 Advanced Placement (AP) Course Number: 3437 Offered In: 11-12 Credits: 1 credit Prerequisites: Physics or AP Physics 1, Pre-Calculus (can be taken concurrently)	AP Physics 2 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore these topics: fluids; thermodynamics; electrical force, field, and potential; electric circuits; magnetism and electromagnetic induction; geometric and physical optics; and quantum, atomic, and nuclear physics.
Advanced Placement (AP) Capstone Course Number: 950 Offered In: 11-12 Credits: 1 credit Prerequisites:	AP Capstone is an innovative diploma program from College Board that equips students with the independent research, collaborative teamwork, and communication skills that are increasingly valued by colleges. AP Capstone is built on the foundation of two AP courses AP Seminar and AP Research and is designed to complement and enhance the in-depth, discipline-specific study experienced in other AP courses.
Advanced Plant and Soil Science Course Number: 6131 Offered In: 11-12 Credits: 1 credit Prerequisites: Biology, Integrated Physics and Chemistry, Chemistry, or Physics	Advanced Plant and Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science.
Advanced Animal Science Course Number: 3266 Offered In: 11-12 Credits: 1 credit Prerequisites: Biology and a second science credit	The Anatomy and Physiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.
Aquatic Science Course Number: 3500 Offered In: 11-12 Credits: 1 credit Prerequisites: Biology	In Aquatic Science, students study the interactions of biotic and abiotic components in aquatic environments, including impacts on aquatic systems. Investigations and field work in this course may emphasize fresh water or marine aspects of aquatic science depending primarily upon the natural resources available for study near the school.
Astronomy Course Number: 1340 Offered In: 11-12 Credits: 1 credit Prerequisites: One unit of high school science	In Astronomy, students conduct laboratory and field investigations, use scientific methods, and make informed decisions using critical thinking and scientific problem solving. Students study the following topics: astronomy in civilization, patterns and objects in the sky, our place in space, the moon, reasons for the seasons, planets, the sun, stars, galaxies, cosmology, and space exploration.
Earth and Space Science Course Number: 3541 Offered In: 11-12 Credits: 1 credit Prerequisites: One unit of high school science	Earth and Space Science is designed to build on students' prior scientific and academic knowledge and skills to develop understanding of Earth's system in space and time. Students learn about Earth systems approach to the themes of Earth in space and time, solid Earth, and fluid Earth defined the selection and development of the concepts. Additionally, ESS has three strands used throughout each of the three themes: systems, energy, and relevance.
Engineering Design and Problem Solving Course Number: 6760 Offered In: 11-12 Credits: 1 credit Prerequisites: Algebra I and Geometry	The Engineering Design and Problem-Solving course is the creative process of solving problems by identifying needs and then devising solutions. The solution may be a product, technique, structure, or process depending on the problem. Science aims to understand the natural world, while engineering seeks to shape this world to meet human needs and wants.

Food Science Course Number: 6536 Offered In: 11-12 Credits: 1 credit Prerequisites: Three units of science, including Chemistry and Biology	In Food Science students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Food Science is the study of the nature of foods, the causes of deterioration, the principles underlying food processing, and the improvement of foods for the consuming public.
Forensic Science Course Number: 6611 Offered In: 11-12 Credits: 1 credit Prerequisites: Biology and Chemistry	Forensic Science is a course that introduces students to the application of science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Students will learn terminology and procedures related to the search and examination of physical evidence in criminal cases as they are performed in a typical crime laboratory.

Courses: Social Studies

World Geography Course Number: 4110 Offered In: 9 Credits: 1 credit Prerequisites: None	In World Geography, students examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Students describe the influence of geography on events of the past and present with emphasis on contemporary issues. A significant portion of the course centers around the physical processes that shape patterns in the physical environment; the characteristics of major landforms, climates, and ecosystems and their interrelationships; the political, economic, and social processes that shape cultural patterns of regions; types and patterns of settlement; the distribution and movement of the world population; relationships among people, places, and environments; and the concept of region.
AP Human Geography Course Number: 4116 Offered In: 9 Credits: 1 credit Prerequisites: None	AP Human Geography introduces high school students to college-level introductory human geography or cultural geography. The content is presented thematically rather than regionally and is organized around the discipline's main subfields: economic geography, cultural geography, political geography, and urban geography. The approach is spatial and problem oriented.
World History Course Number: 4221 Offered In: 10 Credits: 1 credit Prerequisites: None	World History Studies is a survey of the history of humankind. Due to the expanse of world history and the time limitations of the school year, the scope of this course should focus on "essential" concepts and skills that can be applied to various eras, events, and people within the standards in subsection (c) of this section. The major emphasis is on the study of significant people, events, and issues from the earliest times to the present. Traditional historical points of reference in world history are identified as students analyze important events and issues in western civilization as well as in civilizations in other parts of the world. Students evaluate the causes and effects of political and economic imperialism and of major political revolutions since the 17th century.
AP World History: Modern Course Number: 4332 Offered In: 10 Credits: 1 credit Prerequisites: None	In AP World History: Modern, students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time.

US History Course Number: 4321 Offered In: 11 Credits: 1 credit Prerequisites: None	In United States History Studies Since 1877, which is the second part of a two-year study that begins in Grade 8, students study the history of the United States from 1877 to the present. The course content is based on the founding documents of the U.S. government, which provide a framework for its heritage. Historical content focuses on the political, economic, and social events and issues related to industrialization and urbanization, major wars, domestic and foreign policies, and reform movements, including civil rights. Students examine the impact of geographic factors on major events and eras and analyze their causes and effects.
AP United States History Course Number: 4425 Offered In: 11 Credits: 1 credit Prerequisites: None	In AP U.S. History, students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change.
U.S. Government Course Number: 4421 Offered In: 12 Credits: 0.5 credit Prerequisites: None	In United States Government, the focus is on the principles and beliefs upon which the United States was founded and, on the structure, functions, and powers of government at the national, state, and local levels. This course is the culmination of the civic and governmental content and concepts studied from Kindergarten through required secondary courses. Students learn major political ideas and forms of government in history. A significant focus of the course is on the U.S. Constitution, its underlying principles and ideas, and the form of government it created. Students analyze major concepts of republicanism, federalism, checks and balances, separation of powers, popular sovereignty, and individual rights and compare the U.S. system of government with other political systems.
Economics/Free Enterprise Course Number: 4431 Offered In: 12 Credits: 0.5 credit Prerequisites: None	Economics with Emphasis on the Free Enterprise System and Its Benefits is the culmination of the economic content and concepts studied from Kindergarten through required secondary courses. The focus is on the basic principles concerning production, consumption, and distribution of goods and services (the problem of scarcity) in the United States and a comparison with those in other countries around the world. Students analyze the interaction of supply, demand, and price. Students will investigate the concepts of specialization and international trade, economic growth, key economic measurements, and monetary and fiscal policy.
AP U.S. Government Course Number: 4425 Offered In: 12 Credits: 0.5 credit Prerequisites: None	AP U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behaviors.
AP Macroeconomics Course Number: 4441 Offered In: 12 Credits: 0.5 credit Prerequisites: None	AP Macroeconomics is a college-level course that introduces students to the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination.
US Govt Dual Credit Enrollment Course Number: 4318 Offered In: 12 Credits: 0.5 or 1 credit Prerequisites: English 1301	This course is an introduction to United States national government. The course includes a framework for understanding United States government and politics and the constitutional basis for the processes, the institutions, and the policies of United States government and politics.
TX Govt. Dual Credit Enrollment Course Number: 4328 Offered In: 12 Credits: 0.5 or 1 credit Prerequisites: English 1301 or C or higher in US Government	This course is an introduction to Texas state and local government. The course includes a framework for understanding Texas government and politics and the constitutional basis for the processes, the institutions, and the policies of Texas government and politics.
Ethnic Studies: African American History Course Number: 4355 Offered In: 11-12	In Ethnic Studies: African American Studies, an elective course, students learn about the history and cultural contributions of African Americans. This course is designed to assist students in understanding issues and events from multiple perspectives. This course develops an understanding of the historical roots of African American culture, especially as it pertains to social, economic, and political interactions within the broader context of United States history.

Credits: 1 credit Prerequisites: None	
Ethnic Studies: Mexican American History Course Number: 4350 Offered In: 11-12 Credits: 1 credit Prerequisites: None	In Ethnic Studies: Mexican American Studies, an elective course, students learn about the history and cultural contributions of Mexican Americans. Students explore history and culture from an interdisciplinary perspective.

Courses: World Languages

Spanish I Course Number: 1711 Offered In: 9-12 Credits: 1 credit Prerequisites: None	The course serves as an introduction to Spanish language and culture. The students will have the opportunity to master the basic skills under the general requirements of novice Spanish. Basic listening, speaking, reading and writing will be developed throughout the year. By the end of the year, students will be able to discuss and understand conversations and passages about families, schools, likes and dislikes, and hobbies and activities.
Spanish II Course Number: 1721 Offered In: 9-12 Credits: 1 credit Prerequisites: Spanish I	This course is intended for students who have successfully completed Spanish 1 or have acquired the language skills taught in Spanish 1. Students will increase their knowledge of the Spanish language with a focus on verb tenses and expand their vocabulary. By the end of this course, students will be able to discuss and understand conversations and passages regarding the house, home life, obligations, daily routines, clothing and shopping, and food and restaurants. The focus will continue to be communication skills including listening, speaking, reading, and writing.
Advanced Spanish II Course Number: 1725 Offered In: 9-12 Credits: 1 credit Prerequisites: Spanish I	This course is intended for students who have a solid foundation of Spanish 1 topics and skills recommended to be successful in Spanish 2 Pre-AP. The course covers the same material as the Spanish 2 courses, however, the Pre- AP course is designed to begin preparing students for the AP Spanish language course (Level 4) and go more in- depth and require high order thinking skills. Students wishing to take Spanish 2 Pre-AP will have a summer assignment prior to the course that will be mandatory and assessed the first day of class.
Advanced Spanish III Course Number: 1731 Offered In: 10-12 Credits: 1 credit Prerequisites: Spanish I and Spanish II	This course will help students expand their language and cultural understandings by examining the 6 AP themes: beauty and aesthetics, global challenges, families and communities, science and technology, contemporary life, and public and personal identities. Students will be expected to connect with other Spanish speakers using the three modes of communication: presentational, interpretative, and interpersonal.

AP Spanish IV Course Number: 1745 Offered In: 11-12 Credits: 1 credit Prerequisites: Spanish I, Spanish II and Spanish III	AP Spanish Language and Culture is equivalent to an intermediate level college course in Spanish. Students cultivate their understanding of Spanish language and culture by applying interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and communities, personal and public identities, beauty and aesthetics, science and technology, contemporary life, and global challenges
AP Spanish V Course Number: 1746 Offered In: 11-12 Credits: 1 credit Prerequisites: Spanish I, Spanish II and Spanish III	AP Spanish Literature is equivalent to a college level introductory survey course of literature written in Spanish. Students continue to develop their interpretive, interpersonal, and presentational skills in Spanish language as well as critical reading and analytical writing as they explore short stories, novels, plays, essays, and poetry from Spain, Latin America, and U.S. Hispanic authors along with other non-required texts.
French I Course Number: 1811 Offered In: 9-12 Credits: 1 credit Prerequisites: None	The course serves as an introduction to French language and culture. The students will have the opportunity to master the basic skills under the general requirements of novice French. Basic listening, speaking, reading and writing will be developed throughout the year. By the end of the year, students will be able to discuss and understand conversations and passages about families, schools, likes and dislikes, and hobbies and activities.
French II Course Number: 1821 Offered In: 10-12 Credits: 1 credit Prerequisites: French I	This course is intended for students who have successfully completed French 1 or have acquired the language skills taught in French 1. Students will increase their knowledge of the French language with a focus on verb tenses and expand their vocabulary. By the end of this course, students will be able to discuss and understand conversations and passages regarding the house, home life, obligations, daily routines, clothing and shopping, and food and restaurants. The focus will continue to be communication skills including listening, speaking, reading, and writing.
Advanced French II Course Number: 1823 Offered In: 10-12 Credits: 1 credit Prerequisites: French I	This course is designed to prepare students for the AP French Language course and are intended for students who wish to develop a good command of French grammar and vocabulary and have competence in listening, reading, speaking, and writing. Students will also develop a basic knowledge of the French culture and the arts. There will be a mandatory summer assignment.
Advanced French III Course Number: 1831 Offered In: 11-12 Credits: 1 credit Prerequisites: French I and French II	The course involves the development of communications skills in which students engage in conversations, provide and obtain information, understand and interpret written and spoken language to listeners or readers on a variety of topics at the intermediate level. Students will demonstrate an understanding of the relationship between the practices, products, and perspectives of the cultures studied. There will be a mandatory summer assignment.
AP French IV Course Number: 1845 Offered In: 11-12 Credits: 1 credit Prerequisites: French I, French II, and French III	AP French Language and Culture is equivalent to an intermediate level college course in French. Students cultivate their understanding of French language and culture by applying interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and community, personal and public identity, beauty and aesthetics, science and technology, contemporary life, and global challenges.
German I Course Number: 1911 Offered In: 9-12 Credits: 1 credit Prerequisites: None	In this course, students will learn the building blocks of the German language and culture. Students will communicate using both the spoken and written language. By the end of the first semester, successful students will be able to carry on short conversations and read and write short stories. By the end of the year, successful students will be able to discuss and understand conversations and passages about families, schools, likes and dislikes, hobbies and activities.

German II Course Number: 1921 Offered In: 10-12 Credits: 1 credit Prerequisites: German I	This course will continue to build foundational language skills. Students will dive more deeply into the German culture and will make stronger connections to other academic disciplines. By the end of the year, successful students will be able to discuss and understand conversations and passages regarding the house, home life, obligations, daily routines, clothing and shopping, and food and restaurants.
Advanced German II Course Number: 1923 Offered In: 10-12 Credits: 1 credit Prerequisites: German I	This course is designed to prepare students for the AP German Language course (level 4) and will go more in-depth and will require higher order thinking skills. Students wishing to take the Advanced course should have a solid command of German I material, be willing to take risks with the language, be open to project-based learning, and be willing to complete multiple out-of-class projects. Students will have a summer assignment prior to the course that will be mandatory and assessed the first day of class.
Advanced German III Course Number: 1931 Offered In: 10-12 Credits: 1 credit Prerequisites: German I and German II	This course will help students expand their language and cultural understandings by examining the 6 AP themes: beauty and aesthetics, global challenges, families and communities, science and technology, contemporary life, and public and personal identities. Students will be expected to connect with other German speakers using the three modes of communication: presentational, interpretative, and interpersonal.
AP German IV Course Number: 1945 Offered In: 11-12 Credits: 1 credit Prerequisites: German I, German II, and German III	AP German Language and Culture is equivalent to an intermediate level college course in German. Students cultivate their understanding of German language and culture by applying interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and communities, personal and public identities, beauty and aesthetics, science and technology, contemporary life, and global challenges.
American Sign Language I Course Number: 2011 Offered In: 9-12 Credits: 1 credit Prerequisites: None	This is an overview of American Sign Language (ASL), its basic vocabulary, structure, syntax and grammar. Students will focus on mastering the basics of fingerspelling, numbers, facial grammar and sentence structure; students will also learn basic expressive and receptive skills, and conversational/cultural behaviors necessary to hold a beginning-level conversation in ASL, with deaf/hard-of- hearing native users of the language. Introductory information about deaf culture will also be presented to provide students with a broad picture of language and culture.
American Sign Language II Course Number: 2012 Offered In: 9-12 Credits: 1 credit Prerequisites: American Sign Language I	A continuation of basic aspects of American Sign Language (ASL) taught in ASL 1. Students will focus on fingerspelling, numbers, facial grammar and sentence structure. Students will also further develop the conversational/cultural behaviors necessary to hold a beginning-level conversation. More challenging examples of cultural information are taught to aid student development of awareness of and appreciation for the unique linguistic relationship between language and culture among those deaf /hard-of-hearing individuals who use ASL to communicate.
Computer Science I Course Number: 6376 Offered In: 9-12 Credits: 1 credit Prerequisites: None	Computer Science I is an introductory programming class which uses the Java programing language. This course focuses on familiarizing students with simple data structures, classes, objects, program syntax, and modern programming conventions. Students will learn to write their own short programs with text and or graphical output. This course is recommended for students who have no prior programming experience.
Computer Science II Course Number: 6377 Offered In: 11-12 Credits: 1 credit Prerequisites: Computer Science I	Computer Science is an intermediate programming class which uses the Java programing language. This course focuses on familiarizing students with simple data structures, classes, objects, program syntax, and modern programming conventions. Students will learn to write their own short programs with text and or graphical output. This course is recommended for students who have no prior programming experience.

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Courses: Physical Education

Teams Sports I Course Number: 7013 Offered In: 9-12 Credits: 0.5 credit Prerequisites: None	Team Sports provides instruction in the development of knowledge of game rules, health and safety practices and motor skills basic to effective movement required for successful participation in physical recreation and leisure time activities. Activities include flag football, volleyball, soccer, basketball, kickball, softball and ultimate frisbee. Students will be required to suit out and participate daily.
Teams Sports II Course Number: 7014 Offered In: 9-12 Credits: 0.5 credit Prerequisites: None	Team Sports provides instruction in the development of knowledge of game rules, health and safety practices and motor skills basic to effective movement required for successful participation in physical recreation and leisure time activities. Activities include flag football, volleyball, soccer, basketball, kickball, softball and ultimate frisbee. Students will be required to suit out and participate daily.
Foundation of Personal Fitness Course Number: 7005 Offered In: 9-12 Credits: 0.5 credit Prerequisites: None	Foundations of Personal Fitness represents a new approach in physical education and the concept of personal fitness. The basic purpose of this course is to motivate students to strive for lifetime personal fitness with an emphasis on the health-related components of physical fitness.

Outdoor and Adventure Education I Course Number: 7035 Offered In: 9-12 Credits: 0.5 credit Prerequisites: None	The Outdoor and Adventure Education course is designed for the student looking for a challenging hands-on approach to physical education. Students will participate in a curriculum designed to develop knowledge and skills for lifelong outdoor activities. Students will participate in hiking, biking, trail maintenance, camping, backpacking, outdoor cooking, GPS, orienteering and much more.
Outdoor and Adventure Education II Course Number: 7036 Offered In: 9-12 Credits: 0.5 credit Prerequisites: None	The Outdoor and Adventure Education course is designed for the student looking for a challenging hands-on approach to physical education. Students will participate in a curriculum designed to develop knowledge and skills for lifelong outdoor activities. Students will participate in hiking, biking, trail maintenance, camping, backpacking, outdoor cooking, GPS, orienteering and much more.
Weights I Course Number: 7030 Offered In: 10-12 Credits: 0.5 credit Prerequisites: None	This course is a one semester course in which students are required to suit out and participate daily. Students will be evaluated and individual worksheets will document their progress throughout the semester. Major goals are safety in the weight room, documentation of daily work out, nutrition, and how it affects muscle growth. Emphasis will be placed on self-paced progress and individual responsibility in a less structured atmosphere.
Weights II Course Number: 7043 Offered In: 10-12 Credits: 0.5 credit Prerequisites: None	This course is a one semester course in which students are required to suit out and participate daily. Students will be evaluated and individual worksheets will document their progress throughout the semester. Major goals are safety in the weight room, documentation of daily work out, nutrition, and how it affects muscle growth. Emphasis will be placed on self-paced progress and individual responsibility in a less structured atmosphere.

Courses: Fine Arts

Art I Foundations Course Number: 5110 Offered In: 9-12 Credits: 1 credit Prerequisites: None	This course includes an in depth look at four basic strands of art education; foundations: observation and perception; creative expression; historical and cultural relevance; and critical evaluation and response provide broad, unifying structures for organizing the knowledge and skills students are expected to acquire. We will explore the elements and principles of design, focusing on these media: painting, printmaking, ceramics, fibers, sculpture, digital media with an emphasis on drawing.
Art II Paint Public Art Course Number: 5127 Offered In: 10-12 Credits: 1 credit Prerequisites: Art I	This course includes further exploration of the four basic strands of art education; foundations: observation and perception; creative expression; historical and cultural relevance; and critical evaluation and response which provide broad, unifying structures for organizing the knowledge and skills students are expected to acquire.
Art III Paint and Public Art Course Number: 5143 Offered In: 11-12 Credits: 1 credit Prerequisites: Art II Paint	This course includes further exploration of the four basic strands of art education; foundations: observation and perception; creative expression; historical and cultural relevance; and critical evaluation and response which provide broad, unifying structures for organizing the knowledge and skills students are expected to acquire.
Art IV Paint and Public Art Course Number: 5149 Offered In: 12 Credits: 1 credit Prerequisites: Art III Paint	Art 4 Painting and Public Arts includes further exploration of the four basic strands of art education; foundations: observation and perception; creative expression; historical and cultural relevance; and critical evaluation and response which provide broad, unifying structures for organizing the knowledge and skills students are expected to acquire.

AP Art III 2D Design Course Number: 5135 Offered In: 11-12 Credits: 1 credit Prerequisites: Drawing II, Painting and Public Arts II, Photography II	Students submit a portfolio of work for evaluation at the end of the school year that could include, but is not limited to, graphic design, typography, digital imaging, photography, collage, textile design, illustration, painting, and printmaking. This portfolio should show a strong understanding of the elements and principles of design as they pertain to 2D design.
AP Art IV Studio Art Drawing Course Number: 5134 Offered In: 11-12 Credits: 1 credit Prerequisites: AP Art III 2D Design	Students submit a portfolio of work for evaluation at the end of the school year that could include, but is not limited to, graphic design, typography, digital imaging, photography, collage, textile design, illustration, painting, and printmaking. This portfolio should show a strong understanding of the elements and principles of design as they pertain to 2D design as well as a focus on artistic mark-making.
AP Art III 3D Studio Art Course Number: 5136 Offered In: 11-12 Credits: 1 credit Prerequisites: PreAp Studio Art II or PreAp Studio Art III	Students submit a portfolio of work for evaluation at the end of the school year that includes, but is not limited to, a variety of 3D approaches such as traditional sculpture, architectural models, apparel, ceramics, 3D fiber arts, or metal work. This portfolio should show a strong understanding of the elements and principles of design as they pertain to 3D design.
Art II Drawing & Illustration Course Number: 5121 Offered In: 10-12 Credits: 1 credit Prerequisites: Art I	This course includes further exploration of the four basic strands of art education; foundations: observation and perception; creative expression; historical and cultural relevance; and critical evaluation and response which provide broad, unifying structures for organizing the knowledge and skills students are expected to acquire.
Art III Drawing & Illustration Course Number: 5131 Offered In: 10-12 Credits: 1 credit Prerequisites: Art II Drawing and Illustration	This course will require complex projects involving primarily two-dimensional works with emphasis on drawing and illustration. Inventive and imaginative expression employing a variety of drawing, painting, printmaking, and other media and tools will be encouraged. Aesthetic appreciation through visual discrimination and judgment will be developed. Portfolio assembly as well as career awareness and preparation will be stressed.
Art IV Drawing & Illustration Course Number: 5144 Offered In: 11-12 Credits: 1 credit Prerequisites: Art III Drawing and Illustration	This course will require complex projects involving primarily two-dimensional works with emphasis on drawing and illustration. Inventive and imaginative expression employing a variety of drawing, painting, printmaking, and other media and tools will be encouraged. Aesthetic appreciation through visual discrimination and judgment will be developed. Portfolio assembly as well as career awareness and preparation will be stressed.
Art II Digital Art & Media Course Number: 5117 Offered In: 10-12 Credits: 1 credit Prerequisites: Art I or Art Media Communication	This course is designed to give students a basic working knowledge of computer-assisted illustration, photography, and other graphic design techniques. Motivated and creative students will learn and practice skills needed to produce digital artwork in preparation for possible careers in advertising, web design, or other graphic design-related fields of employment. Students will work with programs such as Adobe Photoshop & Illustrator, and Apple iMovie & GarageBand.

Art III Digital Art & Media Course Number: 5118 Offered In: 11-12 Credits: 1 credit Prerequisites: Art II Digital Media or Graphic Design	This course provides a second level of digital art media experience that builds on skills learned in Art II Digital Art & Media or Graphic Design & Illustration. Students will work with animation, sound, and video, in addition to building further skills with programs learned in their previous course. Students will design and complete independent study projects, and work to compile a senior portfolio.
Art IV Digital Art & Media Course Number: 5119 Offered In: 12 Credits: 1 credit Prerequisites: Art III Digital Art and Media	This course allows students to investigate career opportunities, and work toward specializing their art media experience, building on skills honed in Art III Digital Art & Media. Students will work with digital art & design applications related to a career field, both building and refining specialized, career-related skills learned in their previous art and/or technology courses. Students will design and complete a body of related independent study projects, and work to compile a senior portfolio.
Art II Photo Course Number: 5122 Offered In: 10-12 Credits: 1 credit Prerequisites: Art I	Art 2 Photo includes further exploration of the four basic strands of art education; foundations: observation and perception; creative expression; historical and cultural relevance; and critical evaluation and response which provide broad, unifying structures for organizing the knowledge and skills students are expected to acquire. This course is designed to introduce students to the fundamentals of photography while using artistic concepts.
Art III Photo Course Number: 5132 Offered In: 11-12 Credits: 1 credit Prerequisites: Art II Photo	This course is designed to reinforce and expand the concepts of Art III Photo. Art IV Photo will require creative expression with complex photography projects involving two- and three-dimensional work. Inventive and imaginative expression employing a variety of photo and digital imagery techniques will be developed.
Art IV Photo Course Number: 5145 Offered In: 11-12 Credits: 1 credit Prerequisites: Art III Photo	This course is designed to reinforce and expand the concepts of Art III Photo. Art IV Photo will require creative expression with complex photography projects involving two- and three-dimensional work. Inventive and imaginative expression employing a variety of photo and digital imagery techniques will be developed.
Art II Ceramics Course Number: 5124 Offered In: 10-12 Credits: 1 credit Prerequisites: Art I	This course includes further exploration of the four basic strands of art education; foundations: observation and perception; creative expression; historical and cultural relevance; and critical evaluation and response which provide broad, unifying structures for organizing the knowledge and skills students are expected to acquire.
Art III Ceramics Course Number: 5129 Offered In: 11-12 Credits: 1 credit Prerequisites: Art II Ceramics	This course is designed to further build and expand students' ceramics skills. Creative expression will be emphasized while gaining advanced skills with ceramic media and methods. Exploration of various art movements and artists is an integral part of this course. Portfolio assembly as well as career awareness and preparation will be stressed.
Art IV Ceramics Course Number: 5139 Offered In: 12 Credits: 1 credit Prerequisites: Art III Ceramics	This course is designed to further build and expand students' ceramics skills beyond level 3. Personal creative expression and design will be emphasized while further developing advanced ceramics skills. Exploration of various art movements and artists is emphasized. Senior portfolio assembly as well as career preparation will be stressed.

AP Art History Course Number: 5142 Offered In: 10-12 Credits: 1 credit Prerequisites: Art I	Students will examine major forms of artistic expression across cultures throughout history and pre-history, and will learn to look at art critically and articulate what they see and experience. Students should be able to read and write well, and will be expected to do most of their reading and writing outside of class (approximately 3-5 hours per week). Although the course is fast-paced and intensive, students may potentially earn up to 6 hours of college art history credit with a score or 3 or better on an AP exam.
Music Appreciation Course Number: 5310 Offered In: 11-12 Credits: 1 credit Prerequisites: 5 years of performance in a music ensemble either in school or privately OR pre-assessment evaluation	This course is a non-performing music class modeled after a hybrid of World History, English-Language Arts, and Journalism. In Music Appreciation, students will study musical "masterworks" from all genres spanning from the Middle Ages to present day. Students will learn how to listen to music with an objective ear and be able to critique music in a journalistic format.
AP Music Theory Course Number: 5396 Offered In: 11-12 Credits: 1 credit Prerequisites: 5 years of performance in a music ensemble either in school or privately OR pre-assessment evaluation	This course is designed for students who are interested in an advanced understanding of music and/or pursuing a career in music or music studies at the college level. The student is expected to learn how to write, analyze, and create original music in the classical style. Students will also learn aural skills to sing basic melodies and dictate melodies and harmonies.
Band I Course Number: 5360 Offered In: 9-12 Credits: 1 credit Prerequisites: Suggested 2-3 years of middle school band	This course will develop instrumental techniques through music literacy, creative expression, historical and cultural relevance; and critical evaluation through the study of music literature. Educational emphasis is placed on the introduction of advanced instrumental techniques, continued development of skills in music literacy and musicianship through performance. During the fall semester, students must participate in the Rattler Marching Band, which appears at football games, marches in parades, and competes in both UIL sponsored and local band festivals.
Band II Course Number: 5361 Offered In: 10-12 Credits: 1 credit Prerequisites: Band I	This course will develop instrumental techniques through music literacy, creative expression, historical and cultural relevance; and critical evaluation through the study of music literature. Educational emphasis is placed on the introduction of advanced instrumental techniques, continued development of skills in music literacy and musicianship through performance. During the fall semester, students must participate in the Rattler Marching Band, which appears at football games, marches in parades, and competes in both UIL sponsored and local band festivals.
Band III Course Number: 5362 Offered In: 11-12 Credits: 1 credit Prerequisites: Band II	This course will develop instrumental techniques through music literacy, creative expression, historical and cultural relevance; and critical evaluation through the study of music literature. Educational emphasis is placed on the introduction of advanced instrumental techniques, continued development of skills in music literacy and musicianship through performance. During the fall semester, students must participate in the Rattler Marching Band, which appears at football games, marches in parades, and competes in both UIL sponsored and local band festivals.
Band IV Course Number: 5363 Offered In: 12 Credits: 1 credit Prerequisites: Band III	This course will develop instrumental techniques through music literacy, creative expression, historical and cultural relevance; and critical evaluation through the study of music literature. Educational emphasis is placed on the introduction of advanced instrumental techniques, continued development of skills in music literacy and musicianship through performance. During the fall semester, students must participate in the Rattler Marching Band, which appears at football games, marches in parades, and competes in both UIL sponsored and local band festivals.

Color Guard I Course Number: 5306 Offered In: 9-12 Credits: 1 credit Prerequisites: Audition/Tryout	This course is for a unique sport that involves the use of basic techniques in equipment and various dance forms to make choreography, performed in harmony with a musical component. During the fall semester, color guard performs with the Marching Band. In the Spring semester, Color Guard performs at various competitions. Course Fee Required
Color Guard II Course Number: 5307 Offered In: 10-12 Credits: 1 credit Prerequisites: Audition/Tryout and Color Guard I	This course is for a unique sport that involves the use of basic techniques in equipment and various dance forms to make choreography, performed in harmony with a musical component. During the fall semester, color guard performs with the Marching Band. In the Spring semester, Color Guard performs at various competitions. Course Fee Required
Color Guard III Course Number: 5308 Offered In: 11-12 Credits: 1 credit Prerequisites: Audition/Tryout and Color Guard II	This course is for a unique sport that involves the use of basic techniques in equipment and various dance forms to make choreography, performed in harmony with a musical component. During the fall semester, color guard performs with the Marching Band. In the Spring semester, Color Guard performs at various competitions. Course Fee Required
Color Guard IV Course Number: 5309 Offered In: 12 Credits: 1 credit Prerequisites: Audition/Tryout and Color Guard III	This course is for a unique sport that involves the use of basic techniques in equipment and various dance forms to make choreography, performed in harmony with a musical component. During the fall semester, color guard performs with the Marching Band. In the Spring semester, Color Guard performs at various competitions. Course Fee Required
Choir I Women Course Number: 5511 Offered In: 9-12 Credits: 1 credit Prerequisites: No experience, Audition is required	This course will develop techniques for treble voices (Soprano/Alto) through music literacy, creative expression, historical and cultural relevance; and critical evaluation through the study of vocal literature. Educational emphasis is placed on the introduction of vocal techniques, continued development of skills in music literacy and musicianship while simultaneously developing a deeper understanding of vocal music and literature through performance.
Choir I Men Course Number: 5512 Offered In: 9-12 Credits: 1 credit Prerequisites: No experience, Audition is required	This course will develop techniques for lower voices (Tenor/Bass) through music literacy, creative expression, historical and cultural relevance; and critical evaluation through the study of vocal literature. Educational emphasis is placed on the introduction of vocal techniques, continued development of skills in music literacy and musicianship while simultaneously developing a deeper understanding of vocal music and literature through performance.
Choir II Course Number: 5521 Offered In: 10-12 Credits: 1 credit Prerequisites: Choir I and Audition required	This course will continue the development and techniques of choral music through music literacy, creative expression, historical and cultural relevance; and critical evaluation through the study of vocal literature for all voice types (Soprano/Alto/Tenor/Bass). Educational emphasis is placed on the introduction of vocal techniques, continued development of skills in music literacy and musicianship while simultaneously developing a deeper understanding of vocal music and literature through performance.

Choir III Course Number: 5531 Offered In: 11-12 Credits: 1 credit Prerequisites: Choir II and Audition required	This course will continue the development and techniques of choral music through music literacy, creative expression, historical and cultural relevance; and critical evaluation through the study of vocal literature for all voice types (Soprano/Alto/Tenor/Bass). Educational emphasis is placed on the introduction of vocal techniques, continued development of skills in music literacy and musicianship while simultaneously developing a deeper understanding of vocal music and literature through performance.
Choir IV Course Number: 5532 Offered In: 12 Credits: 1 credit Prerequisites: Audition required	This course will continue the development and techniques of choral music through music literacy, creative expression, historical and cultural relevance; and critical evaluation through the study of vocal literature for all voice types (Soprano/Alto/Tenor/Bass).
Vocal Ensemble I Course Number: 5501 Offered In: 9-12 Credits: 1 credit Prerequisites: Director approval and concurrent enrollment in Choir	This course will develop techniques through music literacy, creative expression, historical and cultural relevance; and critical evaluation through the study of vocal literature. Educational emphasis is placed on the introduction of vocal techniques, continued development of skills in music literacy and musicianship while simultaneously developing a deeper understanding of vocal music and literature through performance.
Vocal Ensemble II Course Number: 5502 Offered In: 10-12 Credits: 1 credit Prerequisites: Vocal Ensemble I, director approval, and concurrent enrollment in Choir	This course will develop techniques through music literacy, creative expression, historical and cultural relevance; and critical evaluation through the study of vocal literature. Educational emphasis is placed on the introduction of vocal techniques, continued development of skills in music literacy and musicianship while simultaneously developing a deeper understanding of vocal music and literature through performance.
Vocal Ensemble III Course Number: 5503 Offered In: 11-12 Credits: 1 credit Prerequisites: Vocal Ensemble II, director approval, and concurrent enrollment in Choir	This course will develop techniques through music literacy, creative expression, historical and cultural relevance; and critical evaluation through the study of vocal literature. Educational emphasis is placed on the introduction of vocal techniques, continued development of skills in music literacy and musicianship while simultaneously developing a deeper understanding of vocal music and literature through performance. Attendance at performances and rehearsals outside of the normal school day will be required. This class is for students that have auditioned for, and have been accepted into the Varsity Mixed Choir.
Vocal Ensemble IV Course Number: 5504 Offered In: 12 Credits: 1 credit Prerequisites: Vocal Ensemble III, director approval, and concurrent enrollment in Choir	This course will develop techniques through music literacy, creative expression, historical and cultural relevance; and critical evaluation through the study of vocal literature. Educational emphasis is placed on the introduction of vocal techniques, continued development of skills in music literacy and musicianship while simultaneously developing a deeper understanding of vocal music and literature through performance.
Applied Music I Course Number: 5505 Offered In: 9-12 Credits: 1 credit Prerequisites: Director approval and concurrent enrollment in advanced ensemble	This course is to advance a student's leadership capabilities in music ensembles and will require interpersonal skills, and independent study to support ensembles. The approved students will utilize mastered skills to support performing ensembles during rehearsals. The student must be enrolled in an advanced music ensemble, and have auditioned and been accepted into a student leader position by the director.

Applied Music II Course Number: 5506 Offered In: 10-12 Credits: 1 credit Prerequisites: Applied Music I, director approval, and concurrent enrollment in advanced ensemble	This course is to advance a student's leadership capabilities in music ensembles and will require interpersonal skills, and independent study to support ensembles. The approved students will utilize mastered skills to support performing ensembles during rehearsals. The student must be enrolled in an advanced music ensemble, and have auditioned and been accepted into a student leader position by the director.
Applied Music III Course Number: 5507 Offered In: 11-12 Credits: 1 credit Prerequisites: Applied Music II, director approval, and concurrent enrollment in advanced ensemble	This course is to advance a student's leadership capabilities in music ensembles and will require interpersonal skills, and independent study to support ensembles. The approved students will utilize mastered skills to support performing ensembles during rehearsals. The student must be enrolled in an advanced music ensemble, and have auditioned and been accepted into a student leader position by the director.
Applied Music IV Course Number: 5508 Offered In: 12 Credits: 1 credit Prerequisites: Applied Music III, director approval, and concurrent enrollment in advanced ensemble	This course is to advance a student's leadership capabilities in music ensembles and will require interpersonal skills, and independent study to support ensembles. The approved students will utilize mastered skills to support performing ensembles during rehearsals. The student must be enrolled in an advanced music ensemble, and have auditioned and been accepted into a student leader position by the director.
Classical Guitar I Course Number: 5356 Offered In: 9-12 Credits: 1 credit Prerequisites: None	This course will develop classical guitar techniques through music literacy, creative expression, historical and cultural relevance; and critical evaluation through the study of guitar literature. Educational emphasis is placed on the introduction of advanced instrumental techniques, continued development of skills in music literacy and musicianship while simultaneously developing a deeper understanding of classical guitar music and literature through performance. Attendance at performances and rehearsals outside of the normal school day may be required. An adequate (director approved) nylon string guitar is required for this course.
Classical Guitar II Course Number: 5357 Offered In: 10-12 Credits: 1 credit Prerequisites: Audition/Tryout or Music Guitar I	This course will develop classical guitar techniques through music literacy, creative expression, historical and cultural relevance; and critical evaluation through the study of guitar literature. Educational emphasis is placed on the introduction of advanced instrumental techniques, continued development of skills in music literacy and musicianship while simultaneously developing a deeper understanding of classical guitar music and literature through performance. Attendance at performances and rehearsals outside of the normal school day may be required. An adequate (director approved) nylon string guitar is required for this course.
Classical Guitar III Course Number: 5358 Offered In: 11-12 Credits: 1 credit Prerequisites: Audition/Tryout or Music Guitar II	This course will develop classical guitar techniques through music literacy, creative expression, historical and cultural relevance; and critical evaluation through the study of guitar literature. Educational emphasis is placed on the introduction of advanced instrumental techniques, continued development of skills in music literacy and musicianship while simultaneously developing a deeper understanding of classical guitar music and literature through performance. Attendance at performances and rehearsals outside of the normal school day may be required. An adequate (director approved) nylon string guitar is required for this course.

Classical Guitar IV Course Number: 5359 Offered In: 12 Credits: 1 credit Prerequisites: Audition/Tryout or Music Guitar III	This course will develop classical guitar techniques through music literacy, creative expression, historical and cultural relevance; and critical evaluation through the study of guitar literature. Educational emphasis is placed on the introduction of advanced instrumental techniques, continued development of skills in music literacy and musicianship while simultaneously developing a deeper understanding of classical guitar music and literature through performance. Attendance at performances and rehearsals outside of the normal school day may be required. An adequate (director approved) nylon string guitar is required for this course.
Jazz Ensemble I Course Number: 5368 Offered In: 9-12 Credits: 1 credit Prerequisites: Audition/Tryout and concurrent enrollment in band	Jazz Ensemble is for students in band, choir, or orchestra who are interested in studying and performing various styles of music related to the genre of Jazz. Enrolled students will perform mainly in the Big Band setting with opportunities to perform in smaller combos as well. Placement in Jazz Ensemble will be determined by written approval and audition only. Students will register for Jazz Ensemble classes based upon years of high school experience. Students in Jazz Ensemble must also be enrolled in Band, Choir, or Orchestra.
Jazz Ensemble II Course Number: 5369 Offered In: 10-12 Credits: 1 credit Prerequisites: Audition/Tryout and concurrent enrollment in band	Jazz Ensemble is for students in band, choir, or orchestra who are interested in studying and performing various styles of music related to the genre of Jazz. Enrolled students will perform mainly in the Big Band setting with opportunities to perform in smaller combos as well. Placement in Jazz Ensemble will be determined by written approval and audition only. Students will register for Jazz Ensemble classes based upon years of high school experience. Students in Jazz Ensemble must also be enrolled in Band, Choir, or Orchestra.
Jazz Ensemble III Course Number: 5370 Offered In: 11-12 Credits: 1 credit Prerequisites: Audition/Tryout and concurrent enrollment in band	Jazz Ensemble is for students in band, choir, or orchestra who are interested in studying and performing various styles of music related to the genre of Jazz. Enrolled students will perform mainly in the Big Band setting with opportunities to perform in smaller combos as well. Placement in Jazz Ensemble will be determined by written approval and audition only. Students will register for Jazz Ensemble classes based upon years of high school experience. Students in Jazz Ensemble must also be enrolled in Band, Choir, or Orchestra.
Jazz Ensemble IV Course Number: 5371 Offered In: 12 Credits: 1 credit Prerequisites: Audition/Tryout and concurrent enrollment in band	Jazz Ensemble is for students in band, choir, or orchestra who are interested in studying and performing various styles of music related to the genre of Jazz. Enrolled students will perform mainly in the Big Band setting with opportunities to perform in smaller combos as well. Placement in Jazz Ensemble will be determined by written approval and audition only. Students will register for Jazz Ensemble classes based upon years of high school experience. Students in Jazz Ensemble must also be enrolled in Band, Choir, or Orchestra.
Dance I Course Number: 7711 Offered In: 9-12 Credits: 1 credit Prerequisites: None	This course is an introduction to dance as a visual and performing art form. Ballet, jazz, lyrical, modern dance and social dance forms will be introduced with an emphasis on lifelong conditioning and exercise. Students will be exposed to a wide variety of cultural, religious, and historical influences on dance, arts, and science which specifically address the development of dance as part of the human culture.
Dance II Course Number: 7721 Offered In: 10-12 Credits: 1 credit Prerequisites: Dance I	This course is a further study of dance as a visual and performing art form. Dance II is a continuation of Dance I with an intense study of ballet, jazz, lyrical and modern dance forms with strong emphasis on performance, technique, theory, movement and rhythmic structures. Students will be exposed to a wide variety of cultural, religious, and historical influences on dance, arts, and science which specifically address the development of dance as part of the human culture.

Dance III Course Number: 7731 Offered In: 11-12 Credits: 1 credit Prerequisites: Dance II	This course is an intensified study of dance as a visual and performing art form. Dance III is a continuation of Dance II with an intense study of ballet, jazz, lyrical and modern dance forms with strong emphasis on performance, technique, theory, movement and rhythmic structures. Students will be exposed to a wide variety of cultural, religious, and historical influences on dance, arts, and science which specifically address the development of dance as part of the human culture.
Dance IV Course Number: 7741 Offered In: 10-12 Credits: 1 credit Prerequisites: Dance III	This course is an intensified study of dance as a visual and performing art form. Dance IV is a continuation of Dance III with a continued intense study of ballet, jazz, lyrical and modern dance forms with strong emphasis on performance, technique, theory, movement and rhythmic structures. Students will be exposed to a wide variety of cultural, religious, and historical influences on dance, arts, and science which specifically address the development of dance as part of the human culture.
Mariachi Ensemble I Course Number: 5352 Offered In: 9-12 Credits: 1 credit Prerequisites: Audition/Tryout (violin, trumpet, or guitar)	Mariachi Ensemble (Mariachi Nuevo Cascabel) is for students interested in performing the traditional music of Mexico. Educational emphasis is placed on the introduction of advanced instrumental techniques, continued development of skills in music literacy and musicianship while simultaneously developing a deeper understanding of mariachi music and literature through performance. Students will be expected to rehearse and perform outside the normal school schedule.
Mariachi Ensemble II Course Number: 5353 Offered In: 10-12 Credits: 1 credit Prerequisites: Mariachi Ensemble I	Mariachi Ensemble (Mariachi Nuevo Cascabel) is for students interested in performing the traditional music of Mexico. Educational emphasis is placed on the introduction of advanced instrumental techniques, continued development of skills in music literacy and musicianship while simultaneously developing a deeper understanding of mariachi music and literature through performance. Students will be expected to rehearse and perform outside the normal school schedule.
Mariachi Ensemble III Course Number: 5354 Offered In: 11-12 Credits: 1 credit Prerequisites: Mariachi Ensemble II	Mariachi Ensemble (Mariachi Nuevo Cascabel) is for students interested in performing the traditional music of Mexico. Educational emphasis is placed on the introduction of advanced instrumental techniques, continued development of skills in music literacy and musicianship while simultaneously developing a deeper understanding of mariachi music and literature through performance. Students will be expected to rehearse and perform outside the normal school schedule.
Mariachi Ensemble IV Course Number: 5355 Offered In: 12 Credits: 1 credit Prerequisites: Mariachi Ensemble III	Mariachi Ensemble (Mariachi Nuevo Cascabel) is for students interested in performing the traditional music of Mexico. Educational emphasis is placed on the introduction of advanced instrumental techniques, continued development of skills in music literacy and musicianship while simultaneously developing a deeper understanding of mariachi music and literature through performance. Students will be expected to rehearse and perform outside the normal school schedule.
Sinfonietta I Course Number: 5325 Offered In: 9-12 Credits: 1 credit Prerequisites: 2 years of middle school or private orchestra	This course is the “sub-non-varsity orchestra” at SMHS. This class is offered to all students as a continuation and enrichment of string techniques for students with previous orchestral experience. Educational emphasis is placed on the introduction of advanced instrumental techniques, continued development of skills in music literacy and musicianship while simultaneously developing a deeper understanding of music and orchestral literature through performance. Literature studied in the course will contain both Classical and Popular genres. Students will perform both in small ensembles and in large composite groups. The orchestra is expected to rehearse and perform outside of designated class time. Course Fee Required
Sinfonietta II Course Number: 5326 Offered In: 9-12 Credits: 1 credit Prerequisites: Sinfonietta I	This course is the “sub-non-varsity orchestra” at SMHS. This class is offered to all students as a continuation and enrichment of string techniques for students with previous orchestral experience. Educational emphasis is placed on the introduction of advanced instrumental techniques, continued development of skills in music literacy and musicianship while simultaneously developing a deeper understanding of music and orchestral literature through performance. Literature studied in the course will contain both Classical and Popular genres. Students will perform both in small ensembles and in large composite groups. The orchestra is expected to rehearse and perform outside of designated class time. Course Fee Required

Sinfonietta III Course Number: 5327 Offered In: 9-12 Credits: 1 credit Prerequisites: Sinfonietta II	This course is the “sub-non-varsity orchestra” at SMHS. This class is offered to all students as a continuation and enrichment of string techniques for students with previous orchestral experience. Educational emphasis is placed on the introduction of advanced instrumental techniques, continued development of skills in music literacy and musicianship while simultaneously developing a deeper understanding of music and orchestral literature through performance. Literature studied in the course will contain both Classical and Popular genres. Students will perform both in small ensembles and in large composite groups. The orchestra is expected to rehearse and perform outside of designated class time. Course Fee Required
Sinfonietta IV Course Number: 5328 Offered In: 9-12 Credits: 1 credit Prerequisites: Sinfonietta III	This course is the “sub-non-varsity orchestra” at SMHS. This class is offered to all students as a continuation and enrichment of string techniques for students with previous orchestral experience. Educational emphasis is placed on the introduction of advanced instrumental techniques, continued development of skills in music literacy and musicianship while simultaneously developing a deeper understanding of music and orchestral literature through performance. Literature studied in the course will contain both Classical and Popular genres. Students will perform both in small ensembles and in large composite groups. The orchestra is expected to rehearse and perform outside of designated class time. Course Fee Required
Philharmonic Orchestra I Course Number: 5390 Offered In: 9-12 Credits: 1 credit Prerequisites: Audition/Tryout Required	The Philharmonic Orchestra is the “non-varsity orchestra” at SMHS. This class is offered, by audition only, to all students as a continuation of orchestral studies with previous experience at a more rigorous level than the Sinfonietta orchestra. Educational emphasis is placed on the continued development of advanced instrumental techniques, introduction of complex skills in music literacy and musicianship, while simultaneously developing a deeper understanding of music and orchestral literature through performance.
Philharmonic Orchestra II Course Number: 5391 Offered In: 10-12 Credits: 1 credit Prerequisites: Audition/Tryout Required	The Philharmonic Orchestra is the “non-varsity orchestra” at SMHS. This class is offered, by audition only, to all students as a continuation of orchestral studies with previous experience at a more rigorous level than the Sinfonietta orchestra. Educational emphasis is placed on the continued development of advanced instrumental techniques, introduction of complex skills in music literacy and musicianship, while simultaneously developing a deeper understanding of music and orchestral literature through performance.
Philharmonic Orchestra III Course Number: 5392 Offered In: 11-12 Credits: 1 credit Prerequisites: Audition/Tryout Required	The Philharmonic Orchestra is the “non-varsity orchestra” at SMHS. This class is offered, by audition only, to all students as a continuation of orchestral studies with previous experience at a more rigorous level than the Sinfonietta orchestra. Educational emphasis is placed on the continued development of advanced instrumental techniques, introduction of complex skills in music literacy and musicianship, while simultaneously developing a deeper understanding of music and orchestral literature through performance.
Philharmonic Orchestra IV Course Number: 5393 Offered In: 12 Credits: 1 credit Prerequisites: Audition/Tryout Required	The Philharmonic Orchestra is the “non-varsity orchestra” at SMHS. This class is offered, by audition only, to all students as a continuation of orchestral studies with previous experience at a more rigorous level than the Sinfonietta orchestra. Educational emphasis is placed on the continued development of advanced instrumental techniques, introduction of complex skills in music literacy and musicianship, while simultaneously developing a deeper understanding of music and orchestral literature through performance.
Chamber Orchestra I Course Number: 5380 Offered In: 9-12 Credits: 1 credit Prerequisites: Audition/Tryout Required	The Chamber Orchestra is the “varsity orchestra” at SMHS. This class is offered as a continuation of orchestral studies with previous experience at a more rigorous level than the Philharmonic Orchestra. Educational emphasis is placed on mastering advanced instrumental techniques, complex skills in music literacy, and independent musicianship while studying advanced and professional level repertoire.
Chamber Orchestra II Course Number: 5381 Offered In: 10-12 Credits: 1 credit Prerequisites: Audition/Tryout Required	The Chamber Orchestra is the “varsity orchestra” at SMHS. This class is offered as a continuation of orchestral studies with previous experience at a more rigorous level than the Philharmonic Orchestra. Educational emphasis is placed on mastering advanced instrumental techniques, complex skills in music literacy, and independent musicianship while studying advanced and professional level repertoire.

Chamber Orchestra III Course Number: 5382 Offered In: 11-12 Credits: 1 credit Prerequisites: Audition required	The Chamber Orchestra is the “varsity orchestra” at SMHS. This class is offered as a continuation of orchestral studies with previous experience at a more rigorous level than the Philharmonic Orchestra. Educational emphasis is placed on mastering advanced instrumental techniques, complex skills in music literacy, and independent musicianship while studying advanced and professional level repertoire.
Chamber Orchestra IV Course Number: 5383 Offered In: 12 Credits: 1 credit Prerequisites: Audition required	The Chamber Orchestra is the “varsity orchestra” at SMHS. This class is offered as a continuation of orchestral studies with previous experience at a more rigorous level than the Philharmonic Orchestra. Educational emphasis is placed on mastering advanced instrumental techniques, complex skills in music literacy, and independent musicianship while studying advanced and professional level repertoire.
Theatre Art I Course Number: 5711 Offered In: 9-12 Credits: 1 credit Prerequisites: None	This course includes more accelerated instruction in expressive use of the body and voice, improvisation, parts of the stage, movement, technical theatre skills and appreciation. Students are required to attend and evaluate the departmental productions during the year. Course fee required.
Advanced Theatre Art I Course Number: 5711 Offered In: 9-12 Credits: 1 credit Prerequisites: 2-3 years of middle school Theater Arts and Audition/Tryout for director	This course includes more accelerated instruction in expressive use of the body and voice, improvisation, parts of the stage, movement, technical theatre skills and appreciation. Students are required to attend and evaluate the departmental productions during the year. Course fee required.
Theatre Art II Course Number: 5712 Offered In: 10-12 Credits: 1 credit Prerequisites: Theatre Arts I	This course focuses on expanding knowledge in the areas introduced in Theatre I with emphasis on classical acting concepts and skills. Students are exposed to all aspects of production by preparing a class play from auditioning techniques through closing of a show. Students are required to attend and evaluate the departmental productions during the year. Course fee required.
Theatre Art III Course Number: 5713 Offered In: 11-12 Credits: 1 credit Prerequisites: Theatre Arts II	This course focuses on expanding knowledge in the areas introduced in Theatre II with emphasis on classical acting concepts and skills. Students are exposed to all aspects of production by preparing a class play from auditioning techniques through closing of a show. Theatre III students learn and apply general principles of directing through student directed scenes. Students are required to attend and evaluate the departmental productions during the year. Course fee required.
Theatre Art IV Course Number: 5714 Offered In: 12 Credits: 1 credit Prerequisites: Theatre Arts III	This course focuses on expanding knowledge in the areas introduced in Theatre III with emphasis on classical acting concepts and skills. Students are exposed to all aspects of production by preparing a class play from auditioning techniques through closing of a show. Theatre IV students learn and apply general principles of directing through student directed scenes. Students are required to attend and evaluate the departmental productions during the year. Course fee required.

Theatre Production I Course Number: 5751 Offered In: 9-12 Credits: 1 credit Prerequisites: 2-3 years of middle school Theater and Audition/Tryout for director	This course develops skills in applied communications, practical applications, performances, and recognition of career opportunities in theatre. Through the presentation of main stage plays, students use skills in all aspects of theatrical production (performance and/or technical areas). Students are required to audition for a role or technical position for each school production during the current year and to contribute after school time as needed. Students are required to attend and evaluate the departmental productions during the year. Course fee required.
Theatre Production II Course Number: 5752 Offered In: 10-12 Credits: 1 credit Prerequisites: Theatre Production I	This course develops skills in applied communications, practical applications, performances, and recognition of career opportunities in theatre. Through the presentation of main stage plays, students use skills in all aspects of theatrical production (performance and/or technical areas). Students are required to audition for a role or technical position for each school production during the current year and to contribute after school time as needed. Students are required to attend and evaluate the departmental productions during the year. Course fee required.
Theatre Production III Course Number: 5753 Offered In: 11-12 Credits: 1 credit Prerequisites: Theatre Production II	This course develops skills in applied communications, practical applications, performances, and recognition of career opportunities in theatre through the presentation of main stage plays. Students are required to audition for a role or technical position for each school production during the current year and to contribute after school time as needed. Students are required to attend and evaluate the departmental productions during the year. Course fee required.
Theatre Production IV Course Number: 5754 Offered In: 12 Credits: 1 credit Prerequisites: Theatre Production III	This course develops skills in applied communications, practical applications, performances, and recognition of career opportunities in theatre through the presentation of main stage plays. Students are required to audition for a role or technical position for each school production during the current year and to contribute after school time as needed. Students are required to attend and evaluate the departmental productions during the year. Course fee required.
Technical Theatre I Course Number: 5761 Offered In: 11-12 Credits: 1 credit Prerequisites: Theatre Arts I	This course is an extension of Theatre Arts I that stresses technical elements of theatre (stage areas, fly systems, etc.), how to utilize theatre systems (production calendar, tech rehearsals, production staff roles, etc.), recognize safe theatre practices (personal safety, fire safety, tool safety, shop safety, handling emergencies in the theatre, etc.), and apply basic script analysis techniques to technical theatre elements. Students will strengthen professional and vocational job traits that demonstrate a "novice" level of theatrical content-related knowledge and skills standards.
Technical Theatre II Course Number: 5762 Offered In: 11-12 Credits: 1 credit Prerequisites: Theatre Arts I and Technical Theatre I	This course is an extension of Theatre Production I that stresses technical elements of theatre (stage areas, fly systems, etc.), how to utilize theatre systems (production calendar, tech rehearsals, production staff roles, etc.), recognize safe theatre practices (personal safety, fire safety, tool safety, shop safety, handling emergencies in the theatre, etc.), and apply basic script analysis techniques to technical theatre elements.
Technical Theatre III Course Number: 5763 Offered In: 11-12 Credits: 1 credit Prerequisites: Theatre Arts I and Technical Theatre II	This course continues student academic growth and skill refinement that stresses technical elements of theatre, how to utilize theatre systems, recognize safe theatre practices, and apply script analysis techniques to technical theatre elements. The student will focus on a specific area of technical theatre production concepts and skills by: demonstrating design and building techniques of scenery; designing and building or pulling and altering costumes; designing lighting and using electrical theory and practice as it applies to theatrical lighting; demonstrating an understanding of the physics of acoustics and sound through the design of sound;

Technical Theatre IV Course Number: 5764 Offered In: 11-12 Credits: 1 credit Prerequisites: Theatre Arts I and Technical Theatre III	This course continues student academic growth and skill refinement that stresses technical elements of theatre, how to utilize theatre systems, recognize safe theatre practices, and apply script analysis techniques to technical theatre elements. The student will focus on a specific area of technical theatre production concepts and skills by: demonstrating design and building techniques of scenery; designing and building or pulling and altering costumes; designing lighting and using electrical theory and practice as it applies to theatrical lighting; demonstrating an understanding of the physics of acoustics and sound through the design of sound; designing marketing products for theatrical productions; demonstrating stage management techniques such as build a promptbook,

ECHS here

Courses: Early College High School

Intro to College ECHS Course Number: 1050EC Offered in: 9 Credits:0.5 credits Prerequisites: Enrollment in Early College High School	A study of the research and theory in the psychology of learning, cognition, and motivation; factors that impact learning, and application of learning strategies.
Speech ECHS Course Number: 1517EC Offered in: 9 Credits: 0.5 credit Prerequisites: Enrollment in Early College High School	Application of communication theory and practice to the public speaking context, with emphasis on audience analysis, speaker delivery, ethics of communication, cultural diversity, and speech organizational techniques to develop students' speaking abilities, as well as ability to effectively evaluate oral presentations.
BCIS ECHS Course Number: 8621EC Offered in: 10 Credits: 1 credit Prerequisites: Enrollment in Early College High School	Students will study computer terminology, hardware, and software related to the business environment.
Art Appreciation ECHS Course Number: 5113EC Offered in: 10 Credits: 1 credit Prerequisites: Enrollment in Early College High School	A general introduction to the visual arts designed to create an appreciation of the vocabulary, media, techniques, and purposes of the creative process.
Sociology ECHS Course Number: 4821EC Offered in: 10-11 Credits: 0.5 credit Prerequisites: Pass TSIA Reading	The scientific study of human society, including ways in which groups, social institutions, and individuals affect each other.

Psychology ECHS Course Number: 4823EC Offered in: 10-11 Credits: 0.5 credit Prerequisites: Pass TSIA Reading	General Psychology is a survey of the major psychological topics, theories and approaches to the scientific study of behavior and mental processes.
US History ECHS Course Number: 4321EC Offered in: 11 Credits: 1 credit Prerequisites: Pass TSIA Reading	A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period. Second semester students will survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction era to the present.
English III ECHS Course Number: 1321EC Offered in: 11 Credits: 1 credit Prerequisites: TSIA READING & WRITING OR completion of "C" or better in IRW 0312 OR completion of NCBW 0112 - Must be completed prior to taking this course.	Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Second semester students will study and practice the strategies and techniques for developing research-based expository and persuasive texts.
Biology ECHS Course Number: 3511EC Offered in: 11 Credits: 1 credit Prerequisites: TSIA Reading and Writing - Must be completed prior to taking this course; Co-Requisite: BIOL-1106 - Must be taken either prior to or at the same time as this course.	This laboratory-based course accompanies BIOL 1306 Biology for Science Majors I. Laboratory activities will reinforce the fundamental principles of living organisms, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Study and examination of the concepts of cytology, reproduction, genetics, and scientific reasoning are included.
Environmental Systems ECHS Course Number: 3521EC Offered in: 11 Credits: 1 credit Prerequisites: TSIA READING and WRITING - Must be completed prior to taking this course.	Principles of environmental systems and ecology, including biogeochemical cycles, energy transformations, abiotic interactions, symbiotic relationships, natural resources and their management, lifestyle analysis, evolutionary trends, hazards and risks, and approaches to ecological research.
US Government ECHS Course Number: 4421EC Offered in: 12 Credits: 0.5 credit Prerequisites: TSIA READING - Must be completed prior to taking this course.	Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights.
Texas Government ECHS Course Number: 4901EC Offered in: 12 Credits: 0.5 credit	Origin and development of the Texas Constitution, structure and powers of the state and local government, federalism and inter-governmental relations, political participation, the election process, public policy, and the political culture of Texas.

Prerequisites: TSIA READING - Must be completed prior to taking this course.	
English IV Brit ECHS Course Number: 1431EC Offered in: 12 Credits: 1 credit Prerequisites: TSIA ENGL-1301 - Must be completed prior to taking this course.	A survey of the development of British literature from the Anglo-Saxon period to the Eighteenth Century. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions.
College Algebra ECHS Course Number: 1314EC Offered in: 12 Credits: 1 credit Prerequisites: TSIA MATH-0322 OR meet TSI Math Requirement - Must be completed prior to taking this course.	In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included.
Elementary Stats ECHS Course Number: 2412EC Offered in: 12 Credits: 1 credit Prerequisites: Grade of C or better in MATH 0322 or TSI MATH (350) - Must be completed prior to taking this course; TSI Requirement-MATH - Must be completed prior to taking this course.	Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended.
Economics ECHS Course Number: 4431EC Offered in: 12 Credits: 0.5 credit Prerequisites: TSIA READING OR completion of "C" or better in IRW 0312 - Must be completed prior to taking this course.	An analysis of the economy as a whole including measurement and determination of Aggregate Demand and Aggregate Supply, national income, inflation, and unemployment. Other topics include international trade, economic growth, business cycles, and fiscal policy and monetary policy.
Humanities ECHS Course Number: 8001EC Offered in: 12 Credits: 0.5 credit Prerequisites: TSIA READING - Must be completed prior to taking this course.	This stand-alone course is an interdisciplinary survey of cultures focusing on the philosophical and aesthetic factors in human values with an emphasis on the historical development of the individual and society and the need to create.
Life Growth and Development ECHS Course Number: 8003EC Offered in: 12 Credits: 0.5 credit	Life-Span Growth and Development is a study of social, emotional, cognitive and physical factors and influences of a developing human from conception to death.

Prerequisites: TSIA READING - Must be completed prior to taking this course. (.5 credit)	
Geology ECHS Course Number: 8000EC Offered in: 12 Credits: 0.5 credit Prerequisites: TSIA READING - Must be completed prior to taking this course; Writing - Must be completed prior to taking this course.	A survey of forces, including humans, that shape our physical and biologic environment, and how they affect life on Earth. Introduction to the science and policy of global and regional environmental issues, including pollution, climate change, and sustainability of land, water and energy resources.
Microeconomics ECHS Course Number: 8002EC Offered in: 12 Credits: 0.5 credit Prerequisites: TSIA READING OR completion of "C" or better in IRW 0312 - Must be completed prior to taking this course.	Analysis of the behavior of individual economic agents, including consumer behavior and demand, producer behavior and supply, price and output decisions by firms under various market structures, factor markets, market failures, and international trade.

Career and Technical Education

San Marcos CISD is proud to offer 21 different TEA-recognized Programs of Study. Here's what makes the CTE experience perfect for every SMCISD student.

Career and Technical Education (CTE) provides challenging career pathways for every student utilizing real world practices and evolving skill sets, attitudes and behaviors. Students have the opportunity at all high school campuses to explore a variety of interests through specific CTE course program pathways. Some programs also have highly specialized courses that require access to extensive industry standard equipment; these courses are offered at our San Marcos High School STEAM Center. Students in CTE classes get to work in fully equipped, laboratory settings that simulate real-world environments. These facilities were carefully designed with the help of industry professionals to ensure that each CTE experience will prepare a student for their desired career.

CTE students routinely finish their programs of study and earn their industry-based certificate all while participating in athletics, fine arts, AP classes, clubs and organizations, and many other extracurricular activities. CTE opportunities are a terrific way to help students enter college, prepare for a career, and begin connecting with industry leaders.

CTE classes include incredible creative opportunities for students to create, design, and explore using the latest technological equipment. On the high school campus alone there is a veterinary clinic, salon, construction shop, robotics laboratory, greenhouse, fashion design suite, ambulance simulator, restaurant-level kitchen, and two automotive shops, just to name a few!

Student Organizations

SMHS students enrolled in CTE courses are encouraged to join and participate in their respective Career & Technical Student Organizations (CTSO). CTSOs provide students the opportunity to apply their CTE curriculum in competitive events as well as develop their leadership skills for the future.

Accounting & Financial Services

Students work in the STEAM Conference Center and Business Classroom, using the latest Accounting and Financial software programs, working with real-world simulations to learn about financial services, statements, and records. Partnerships with local financial institutions, including the on-campus branch of the A+ Federal Credit Union, allow students in this Program of Study to make connections within the industry as they prepare for the variety of college and workforce opportunities that come next.

Course Sequence:

- Business Information Management I
- Accounting I
- Accounting II
- Career Preparation I

Industry-Based Certification:

- Volunteer Income Tax Assistance / Tax Counseling Certification: Basic

Career & Technical Student Organization (CTSO)

- Future Business Leaders of America (FBLA) is the largest business Career and Technical Student Organization in the world. Each year, FBLA helps over 230,000 members prepare for careers in business. FBLA inspires and prepares students to become community-minded business leaders in a global society through relevant career preparation and leadership experiences.

For more information, go to fbla-pbl.org

Postsecondary Opportunities

- Associate's Degree
  - Financial Planning
- Bachelor's Degree
  - Accounting
  - Certified Income Specialist
- Master's / Doctoral Degrees
  - Business Administration
  - Financial Planning

Job Market

- Accountant / Auditor
  Median Wage: $71,469
  % Growth: 22%
- Personal Financial Advisor
  Median Wage: $86,965
  % Growth: 52%
- Administrative Service Manager
  Median Wage: $96,148
  % Growth: 21%

Courses: Accounting & Financial Services

Business Information Management I Course Number: 6340 Offered in: 9-12 Credits: 1 credit Prerequisites: None	This course lets students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.
Accounting I Course Number: 6350 Offered in: 10-12 Credits: 1 credit Prerequisites: Business Info Mgmt. I	This course allows students to investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in the process of recording, classifying, summarizing, analyzing, and communicating accounting information. Students will formulate and interpret financial information for use in management decision making.
Accounting II Course Number: 6355 Offered in: 11-12 Credits: 1 credit Prerequisites: Accounting I	This course allows students to continue the investigation of the field of accounting and the various factors that make an impact. Students will reflect on this knowledge as they engage in various managerial, financial, and operational accounting activities. Students will formulate, interpret, and communicate financial information for use in management decision making. Students will use equations, graphical representations, accounting tools, spreadsheet software, and accounting systems in real-world situations to maintain, monitor, control, and plan the use of finances.
Career Prep I Course Number: 6910 Offered in: 11-12 Credits: 2 credits Prerequisites: None	This course provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success. Students are required to have off-campus employment as part of this course.

Advanced Manufacturing & Machinery Mechanics

Students work in the Robotics Lab, where they design, create, and modify various machines and electronic robots and structures. Students compete in robotic competitions where they are able to test their creations in a variety of task-oriented contests. They also work with local businesses that specialize in robotics to learn how to apply what they learn to the complex machinery components found in a growing number of manufacturing facilities in the area. Students completing this Program of Study can earn a FANUC - Robot Operator 1 Certificate.

Course Sequence:

- Principles of Applied Engineering
- Robotics I
- Robotics II
- Engineering Design & Presentation I

Industry-Based Certification:

- FANUC Robot Operator I

Career & Technical Student Organization (CTSO)

- FIRST Robotics Competition (FRC) - The mission of FIRST is to inspire young people to be science and technology leaders and innovators, by engaging them in exciting mentor-based programs that build science, engineering, and technology skills, that inspire innovation, and that foster well rounded life capabilities including self-confidence, communication, and leadership.

For more information, go to firstinspires.org

Postsecondary Opportunities

- Associate's Degree
  - Electromechanical Engineering
- Bachelor's Degree
  - Industrial Engineering
  - Mechanical Engineering
- Master's / Doctoral Degrees
  - Industrial Engineering
  - Mechanical Engineering

Job Market

- Industrial Machinery Mechanic
  Median Wage: $49,816
  % Growth: 27%
- Mechanical Technician
  Median Wage: $56,555
  % Growth: 9%
- Robot Programmer
  Median Wage: $79,040
  % Growth: 7%

Courses: Advanced Manufacturing & Machinery Mechanics

Principles of Applied Engineering Course Number: 6749 Offered in: 9-10 Credits: 1 credit Prerequisites: Algebra I	This course provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Students will understand the various fields of engineering and experience working on a design team to develop systems.
Robotics I Course Number: 6730 Offered in: 10-12 Credits: 1 credit Prerequisites: Principles of Applied Engineering	This course allows students to transfer academic skills to component designs in a project-based environment through implementation of the design process. Students will build prototypes or use simulation software to test their designs. Additionally, students will explore career opportunities, expectations, and educational needs in the robotic and automation industry.
Robotics II Course Number: 6735 Offered in: 10-12 Credits: 1 credit Prerequisites: Robotics I	This course allows students to explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs.
Engineering Design & Presentation I Course Number: 6541 Offered in: 11-12 Credits: 1 credit Prerequisites: Robotics II	This course is a continuation of skills learned in previous courses in this program. Students will demonstrate knowledge and skills of the design process as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Additionally, students explore career opportunities in engineering, technology, and drafting and what is required to gain and maintain employment in these areas.

Animal Science

Students work in the Veterinarian Clinic, in real-life simulations based on the actual equipment and facilities found in most area veterinary clinics. Students learn the skills for animal care in these environments, as well as the needs of maintaining and operating a clinic. In practicum classes, students earn clinical hours working with local Veterinarians in their offices. Students completing this Program of Study can become Level 1 Certified Veterinary Assistants.

Course Sequence:

- Principles of Agriculture, Food, & Natural Resources
- Livestock Production
- Veterinary Medical Applications
- Practicum in Agriculture, Food, & Natural Resources
  OR
- Advanced Animal Science

Industry-Based Certification:

- Certified Veterinary Assistant, Level 1
- Elanco Fundamentals of Animal Science Certification

Career & Technical Student Organization (CTSO)

- Future Farmers of American (FFA) is a dynamic youth organization that changes lives and prepares members for premier leadership, personal growth and career success through agriculture education. FFA develops members' potential and helps them discover their talent through hands-on experiences, which give members the tools to achieve real-world success.

For more information, go to ffa.org

Postsecondary Opportunities

- Associate's Degree
  - Veterinary Assisting
- Bachelor's Degree
  - Animal Science
  - Agriculture
- Master's / Doctoral Degrees
  - Genetics
  - Biomedical Sciences

Job Market

- Medical Scientist
  Median Wage: $63,898
  % Growth: 27%
- Zoologist and Wildlife Biologist
  Median Wage: $67,309
  % Growth: 32%
- Veterinarian
  Median Wage: $93,496
  % Growth: 24%

Courses: Animal Science

Principles of Agriculture, Food & Natural Resources Course Number: 6100 Offered in: 9-12 Credits: 1 credit Prerequisites: None	This course allows students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. To prepare for success, students need opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings.
Livestock Production Course Number: 6111 Offered in: 10-12 Credits: 1 credit Prerequisites: Principles of AFNR	This course allows students to acquire knowledge and skills related to livestock and the livestock production industry. The course may address topics related to cattle, swine, sheep, goats, poultry, and/or domestic animals. Students will attain knowledge and skills related to animal systems: and the workplace, career opportunities, entry requirements, and industry expectations. Students gain opportunities to learn, reinforce, apply, and transfer what they learn in a variety of settings.
Veterinary Medical Applications Course Number: 6403 Offered in: 11-12 Credits: 1 credit Prerequisites: Livestock Production	This course covers topics relating to veterinary practices, including practices for large and small animal species. To prepare for careers in the field of animal science, students acquire technical knowledge and skills related to animal systems and the workplace and learn about career opportunities, entry requirements, and industry expectations. Students extend their work in the campus Veterinary Clinic, using real-world experiences to enhance their learning.
Practicum in Agriculture, Food & Natural Resources Course Number: 6404 Offered in: 11-12 Credits: 2 credits Prerequisites: Veterinary Medical Applications	This course is designed to give students supervised practical applications of knowledge and skills. Practicum experiences occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. Students partner with local veterinary offices to earn clinical hours required to sit for the Certified Veterinary Assistant, Level 1 exam. Students are required to use a portion of their schedule to intern at one of several partner veterinary clinics as part of this course.
Advanced Animal Science Course Number: 6109 Offered in: 11-12 Credits: 1 credit Prerequisites: Veterinary Medical Applications; Biology or IPC and Chemistry; Algebra I and Geometry	This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. Students work with the campus Veterinary Clinic, as well as various student animal projects as they apply their learning to real-world situations.

Applied Agricultural Engineering

Students work in the Ag Mechanics shop with heavy machinery, welding equipment, fabrication equipment, and other high-tech tools. Thanks to partnerships with local industry members, students get to work alongside company representatives that show how to apply the skills students learn in actual jobsite situations. Students completing this Program of Study get opportunities to continue work and apprenticeship with our industry partners and can earn the AWS D1.1 Structural Steel and AWS D9.1 Sheet Metal Welding certificates.

Course Sequence:

- Principles of Agriculture, Food, & Natural Resources
- Agricultural Mechanics & Metal Technologies
- Agricultural Structures Design & Fabrications
- Agricultural Equipment Design & Fabrications

Industry-Based Certification:

- AWS D1.1 Structured Steel
- AWS D9.1 Sheet Metal Welding

Career & Technical Student Organization (CTSO)

- Future Farmers of American (FFA) is a dynamic youth organization that changes lives and prepares members for premier leadership, personal growth and career success through agriculture education. FFA develops members' potential and helps them discover their talent through hands-on experiences, which give members the tools to achieve real-world success.

For more information, go to ffa.org

Postsecondary Opportunities

- Associate's Degree
  - Welding Technology
- Bachelor's Degree
  - Agricultural Engineering
  - Maintenance Technology
- Master's / Doctoral Degrees
  - Agricultural Mechanization

Job Market

- Welder
  Median Wage: $41,350
  % Growth: 9%
- Heavy Equipment Mechanic
  Median Wage: $47,299
  % Growth: 16%
- Agricultural Engineer
  Median Wage: $64,792
  % Growth: 13%

Courses: Applied Agricultural Engineering

Principles of Agriculture, Food & Natural Resources Course Number: 6100 Offered in: 9-12 Credits: 1 credit Prerequisites: None	This course allows students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. To prepare for success, students need opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings.
Agricultural Mechanics & Metal Technologies Course Number: 6150 Offered in: 10-12 Credits: 1 credit Prerequisites: Principles of AFNR	This course is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques. Students have the opportunity to work on small projects of their own creation as they apply their learning to real-life simulations.
Agricultural Structures Design & Fabrication Course Number: 6103 Offered in: 11-12 Credits: 1 credit Prerequisites: Ag Mech & Metal Tech	This course allows students to explore career opportunities, entry requirements, and industry expectations in the Agricultural Mechanics industry. Students attain knowledge and skills in mechanized agriculture and technical systems, as well as various techniques related to structure design and fabrication. Students work on individual and group projects that allow them to design and create in real-life simulations.
Agricultural Equipment Design & Fabrication Course Number: 6105 Offered in: 11-12 Credits: 2 credits Prerequisites: Ag Structures Design & Fab	This course allows students to apply their agricultural engineering knowledge and skills to practical environments related to the design and fabrication of agricultural equipment. Students work with industry partners to improve their skills in design and fabrication, as well as expanding their knowledge of various career opportunities in the field.

Automotive Technology

Students work in the Automotive Technology Shop using tools and machines exactly like the ones found in professional facilities. Partnerships with local automotive dealers allow students to work in the exact conditions they would find when entering the industry and students get a direct connection to these local partners for potential internships and jobs. Students completing this Program of Study can earn multiple ASE (Automotive Service Excellence) certifications.

Course Sequence:

- Automotive Basics
- Automotive Technology I
- Automotive Technology II
- Career Preparation I

Industry-Based Certification:

- Automotive Service Excellence certifications (multiple)

Career & Technical Student Organization (CTSO)

- SkillsUSA is a partnership of students, teachers, and industry working together to ensure America has a skilled workforce. They help each student excel. A nonprofit national education association, SkillsUSA serves middle-school, high-school and college/postsecondary students preparing for careers in trade, technical, and skilled service occupations.

For more information, go to skillsusa.org

Postsecondary Opportunities

- Associate's Degree
  - Vehicle Technology
- Bachelor's Degree
  - Mechanical Technology
- Master's / Doctoral Degrees
  - Mechanical Engineering

Job Market

- Automotive Service Tech
  Median Wage: $40,144
  % Growth: 25%
- Mechanic
  Median Wage: $52,686
  % Growth: 14%
- Automotive Service Supervisor
  Median Wage: $60,756
  % Growth: 15%

Courses: Automotive Technology

Automotive Basics Course Number: 6806 Offered in: 9-12 Credits: 1 credit Prerequisites: None	This course includes knowledge of the basic automotive systems and the theory and principles of the components that make up each system and how to service these systems. It includes applicable safety and environmental rules and regulations. Students will gain knowledge and skills in the repair, maintenance, and servicing of vehicle systems, and focus on safety, tool identification, proper tool use, and employability.
Automotive Technology I Course Number: 6802 Offered in: 10-12 Credits: 2 credits Prerequisites: Automotive Basics	This course includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. It includes applicable safety and environmental rules and regulations. Students will gain knowledge and skills in the repair, maintenance, and servicing of vehicle systems, and focus on safety, tool identification, proper tool use, and employability.
Automotive Technology II Course Number: 6803 Offered in: 11-12 Credits: 2 credits Prerequisites: Automotive Technology I	This course continues the students application of their knowledge of major automotive systems and the principles of diagnosing and servicing these systems. Students get to work in real-life situations and environments, servicing vehicles from actual customers in the Automotive Technology Shop, including the operations of a shop through invoicing, customer service, planning, diagnosing, and problem solving.
Career Prep I Course Number: 6910 Offered in: 11-12 Credits: 2 credits Prerequisites: None	This course provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success. Students are required to have off-campus employment as part of this course.

Automotive Collision Repair

Students work in the Collision Repair Shop using a variety of professional repair tools, including a fully-equipped, industry standard paint bay. Students work with a variety of automobiles and parts as they learn about the various skills and operation techniques necessary for working in the collision repair industry. Students completing this Program of Study can earn the I-Car ProLevel 1 industry certificate.

Course Sequence:

- Basic Collision Repair & Refinishing
- Collision Repair
- Paint & Refinishing
- Career Preparation I

Industry-Based Certification:

- iCar Non-Structural ProLevel 1
- Automotive Service Excellence certifications (multiple)

Career & Technical Student Organization (CTSO)

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For more information, go to skillsusa.org

Postsecondary Opportunities

- Associate's Degree
  - Collision and Repair Technology
- Bachelor's Degree
  - Mechanical Technology
- Master's / Doctoral Degrees
  - Mechanical Engineering

Job Market

- Automotive Body Repairer
  Median Wage: $40,144
  % Growth: 25%
- Mechanic
  Median Wage: $52,686
  % Growth: 14%
- Automotive Service Supervisor
  Median Wage: $60,756
  % Growth: 15%

Courses: Automotive Collision Repair

Basic Collision Repair & Refinishing Course Number: 6807 Offered in: 9-12 Credits: 1 credit Prerequisites: None	This course includes knowledge of the processes, technologies, and materials used in the reconstruction of vehicles. This course teaches the concepts and theory of systems related to automotive collision repair and refinishing, and provides introductory experiences for students around safety, tool identification, proper tool use, and employability.
Collision Repair Course Number: 6808 Offered in: 10-12 Credits: 2 credits Prerequisites: Basic Collision Repair & Refinishing	This course provides students with the opportunity to begin applying their knowledge and skills of the processes, technologies, and materials used in the reconstruction of vehicles to practical settings. Students being to utilize more advanced equipment and continue through the process of diagnosing, preparing, and completing automotive body repairs.
Paint & Refinishing Course Number: 6809 Offered in: 11-12 Credits: 2 credits Prerequisites: Collision Repair	This course advances students' knowledge and skills of the processes, technologies, and materials used in the reconstruction of vehicles with further laboratory and field experiences related to the content. Students learn to repair damaged vehicles, as well as explore options for creative additions and revisions to automotive designs.
Career Prep I Course Number: 6910 Offered in: 11-12 Credits: 2 credits Prerequisites: None	This course provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success. Students are required to have off-campus employment as part of this course.

Construction Management & Inspection

Students work in the Construction Shop, using computer software to create and design projects, then bring those ideas to life with the materials and tools available in the lab. As students develop their skills, they continue to add to the creation of a tiny home project that is complete and ready for use at the end of each year. Students completing this Program of Study can earn the NCCER Construction Site Safety Technician certificate.

Course Sequence:

- Principles of Construction
- Construction Management I
- Construction Management II
- Practicum in Construction Management

Industry-Based Certification:

- NCCER Construction Site Safety Technician

Career & Technical Student Organization (CTSO)

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For more information, go to skillsusa.org

Postsecondary Opportunities

- Associate's Degree
  - Financial Planning
- Bachelor's Degree
  - Accounting
  - Certified Income Specialist
- Master's / Doctoral Degrees
  - Business Administration
  - Financial Planning

Job Market

- Accountant / Auditor
  Median Wage: $71,469
  % Growth: 22%
- Personal Financial Advisor
  Median Wage: $86,965
  % Growth: 52%
- Administrative Service Manager
  Median Wage: $96,148
  % Growth: 21%

Courses: Construction Management & Inspection

Principles of Construction Course Number: 6205 Offered in: 9-12 Credits: 1 credit Prerequisites: None	This course is intended to provide an introduction and lay a solid foundation for those students interested in construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. This course also provides communication and occupational skills to assist the student in obtaining and maintaining employment.
Construction Management I Course Number: TBD Offered in: 10-12 Credits: 2 credits Prerequisites: Principles of Construction	This course gives students the knowledge and skills needed to enter the workforce as apprentice carpenters or building maintenance supervisors' assistants or to build a foundation toward a postsecondary degree in architecture, construction science, drafting, or engineering. The course provides the knowledge of design techniques and tools related to the management of architectural and engineering projects.
Construction Management II Course Number: TBD Offered in: 11-12 Credits: 2 credits Prerequisites: Construction Management I	This course extends the students knowledge and skills needed to enter the workforce as apprentice carpenters or building maintenance supervisors' assistants or to build a foundation toward a postsecondary degree in Credits: 2 credits architecture, construction science, drafting, or engineering. The course allows students to work collaboratively and individually on projects from the design phase, to implementation, through completion.
Practicum in Construction Management Course Number: TBD Offered in: 11-12 Credits: 2 credits Prerequisites: Construction Management II	This course is an occupationally specific course designed to provide classroom technical instruction or on-the-job training experiences. Safety and career opportunities are included in addition to work ethics and job-related study in the classroom. Students in this course take primary ownership of the design, implementation, and completion of the tiny home project, including work in electrical, plumbing, and HVAC.

Cosmetology & Personal Care Services

Students work in the Venom Salon, where they learn the skills and management techniques necessary for the operation of a full-service cosmetology operation. Students work to complete state-mandated hours as they work with actual clients in aspects of the personal care industry. Students completing this Program of Study can earn the TDLR Cosmetology Operator's License and get to keep the provided tool kit used to complete their studies.

Course Sequence:

- Introduction to Cosmetology
- Cosmetology I
- Cosmetology II

Industry-Based Certification:

- Cosmetology Operator License

Career & Technical Student Organization (CTSO)

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For more information, go to skillsusa.org

Postsecondary Opportunities

- Associate's Degree
  - Cosmetology
  - Salon Management
- Bachelor's Degree
  - Cosmetology
  - Business Administration

Job Market

- Personal Care Supervisor
  Median Wage: $36,941
  % Growth: 24%
- Hairdresser, Hairstylist
  Median Wage: $48,522
  % Growth: 22%
- Makeup Artist
  Median Wage: $60,278
  % Growth: 37%

Courses: Cosmetology & Personal Care Services

Introduction to Cosmetology Course Number: 6327 Offered in: 10-12 Credits: 1 credit Prerequisites: None	This course allows students to explore careers in the cosmetology industry. To prepare for success, students must have academic and technical knowledge and skills relative to the industry. Students may begin earning hours toward state licensing requirements and partner with students in upper-level courses to get experience learning the theory and process involved in operating a cosmetology operation.
Cosmetology I Course Number: 6328 Offered in: 11-12 Credits: 2 credits Prerequisites: Introduction to Cosmetology	This course allows students to integrate academic, career, and technical knowledge and skills in a laboratory designed to provide job-specific training for employment in cosmetology careers. Instruction includes sterilization procedures, hair care, nail care, and skin care and meets the needs for licensure. Analysis of career opportunities, license requirements, knowledge and skills expectations, and development of workplace skills are included.
Cosmetology II Course Number: 6326 Offered in: 11-12 Credits: 3 credits Prerequisites: Cosmetology I	This course allows students to demonstrate proficiency in academic, technical, and practical knowledge and skills. The content is designed to provide the occupational skills required for licensure. Instruction includes advanced training in professional standards/employability skills, Texas Department of Licensing and Regulation (TDLR) rules and regulations, use of tools, equipment, technology and materials, and practical skills.

Culinary Arts

Students work in one of two Culinary Kitchen labs, where they train in industry standard environments to learn the skills and operation techniques necessary for a career in the Culinary industry. Partnerships with local businesses allow students to work in real kitchen and food service spaces, plus students plan and create many different on-campus events for actual clients. Students completing this Program of Study can earn a Food Protection Manager Certification.

Course Sequence:

- Introduction to Culinary Arts
- Culinary Arts
- Advanced Culinary Arts
- Practicum in Culinary Arts

  OR
- Food Science

Industry-Based Certification:

- Food Protection Manager Certification

Career & Technical Student Organization (CTSO)

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For more information, go to skillsusa.org

Postsecondary Opportunities

- Associate's Degree
  - Restaurant Management
  - Hospitality Administration
- Bachelor's Degree
  - Food Service Administration
  - Culinary Science
- Master's / Doctoral Degrees
  - Business Administration

Job Market

- Head Chef
  Median Wage: $43,285
  % Growth: 25%
- Food & Beverage Manager
  Median Wage: $55,619
  % Growth: 28%
- Food Scientist
  Median Wage: $80,190
  % Growth: 7%

Courses: Culinary Arts

Introduction to Culinary Arts Course Number: 6527 Offered in: 9-12 Credits: 1 credit Prerequisites: None	This course will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant, as well as food production skills, various levels of industry management, and hospitality skills. The course is offered as a classroom and laboratory-based course.
Culinary Arts Course Number: 6528 Offered in: 10-12 Credits: 2 credits Prerequisites: Introduction to Culinary Arts	This course begins with the fundamental and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue an industry certification with the demonstration of their skills. This course is offered as a laboratory-based course.
Advanced Culinary Arts Course Number: 6529 Offered in: 11-12 Credits: 2 credits Prerequisites: Culinary Arts	This course will extend content and enhance skills introduced in Culinary Arts by in-depth instruction of industry-driven standards in order to prepare students for success in higher education, certifications, and/or immediate employment. Students in this course will have the opportunity to plan, design, and implement a variety of culinary events both on and off campus.
Practicum in Culinary Arts Course Number: 6535 Offered in: 11-12 Credits: 2 credits Prerequisites: Advanced Culinary Arts	This course is a unique practicum that provides opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. It integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace.
Food Science Course Number: 6536 Offered in: 11-12 Credits: 1 credit Prerequisites: 3 units of Science, including Chemistry & Biology	This course allows students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. The course studies the nature of food, the causes of deterioration, the principles underlying food processing, and the improvement of food for the consuming public.

Digital Communication

Students work in the Broadcast Studio, where they get to learn in a state-of-the-art lab space that includes a computer lab, a control room, and a recording studio. All spaces are connected through monitors allowing students to work in and observe each space in the broadcast process. Students get to create movies, commercials, and other materials for real-life clients, learning the skills necessary for a career in the Audio/Video industry. Students completing this Program of Study can earn a variety of Adobe Certified Associate Professional Certificates.

Course Sequence:

- Principles of Arts, Audio/Video Technology, & Communications
- Audio/Video Production I
- Audio/Video Production II
- Practicum in Audio/Video Production

Industry-Based Certification:

- Adobe Certified Professional in Digital Video Using Adobe Premiere Pro

Career & Technical Student Organization (CTSO)

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For more information, go to skillsusa.org

Postsecondary Opportunities

- Associate's Degree
  - Music Technology
- Bachelor's Degree
  - Recording Arts Technology
  - Radio & Television
- Master's / Doctoral Degrees
  - Communications Technology
  - Cinematography and Film Production

Job Market

- Film and Video Editor
  Median Wage: $47,382
  % Growth: 23%
- Camera Operator, TV, Video, and Motion Picture
  Median Wage: $50,024
  % Growth: 9%
- Studio Operations Manager
  Median Wage: $56,883
  % Growth: 10%

Courses: Digital Communication

Principles of Arts, A/V Technology & Communications Course Number: 6356 Offered in: 9-12 Credits: 1 credit Prerequisites: None	This course introduces students to the knowledge and skills necessary for a career and/or postsecondary education in the Digital Communication industry. Students will use their own creativity to develop their background in computer and technology applications, oral and written communication, and techniques for planning, implementing, and completing projects. The course provides an exploration of the various and multifaceted career and educational opportunities in the field.
Audio/Video Production I Course Number: 6390 Offered in: 10-12 Credits: 1 credit Prerequisites: Principles of Arts A/V Technology & Communications	This course develops the knowledge and skills required for success with audio and video technology, film production, and all aspects of the audio/ video communications industry. Students work in the Broadcast Studio to practice and refine their skills related to pre-production, production, and post-production audio and video products.
Audio/Video Production II Course Number: 6392 Offered in: 11-12 Credits: 1 credit Prerequisites: A/V Production I	This course allows students to develop an understanding of the industry with a deeper focus on pre-production, production, and post-production products. Through diverse forms of storytelling and production, students will exercise and develop creativity, intellectual curiosity, and critical-thinking, problem-solving, and collaborative skills.
Practicum in Audio/Video Production Course Number: 6363 Offered in: 11-12 Credits: 2 credits Prerequisites: A/V Production II	This course builds upon the concepts taught in A/V Production II, developing advanced technical knowledge and skills needed for success in the audio/video communications industry. Students continue to develop their skills in pre-production, production, and post-production projects, in a professional environment. Through various community partnerships, students have the opportunity to create and design projects for real clients as they demonstrate their mastery of skills.

Exercise Science & Wellness

Students work in both the classroom and the Athletic Training facility with various sports teams on campus to practice their skills in Kinesiology and Exercise Science. Students learn about the importance of diet and exercise in an athlete's work, as well as focusing on techniques to help athletes recover from injury and maintain a healthy, balanced lifestyle. Students completing this Program of Study can earn a Certified Personal Trainer Certificate.

Course Sequence:

- Principles of Health Science
- Kinesiology I
- Kinesiology II
- Anatomy & Physiology
- Career Preparation I

Industry-Based Certification:

- Certified Personal Trainer

Career & Technical Student Organization (CTSO)

- HOSA is a global student-led organization recognized by the U.S. Department of Education and the Department of Health and Human Services and several federal and state agencies. HOSA's mission is to impower HOSA-Future Health Professionals to become leaders in the global health community, through education, collaboration, and experience. HOSA actively promotes career opportunities in the health industry and to enhance the delivery of quality health care to all people.

For more information, go to hosa.org

Postsecondary Opportunities

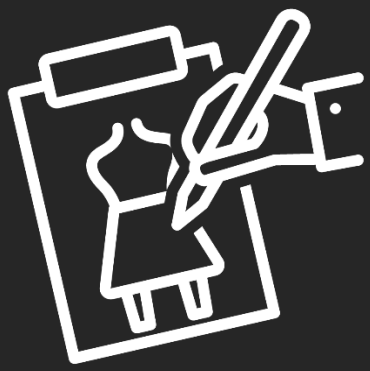
- Associate's Degree
  - Physical Therapy
- Bachelor's Degree
  - Kinesiology
  - Athletic Training
- Master's / Doctoral Degrees
  - Exercise Philosophy
  - Therapeutic Recreation

Job Market

- Recreational Therapist
  Median Wage: $45,906
  % Growth: 24%
- Athletic Trainer
  Median Wage: $53,450
  % Growth: 22%
- Dietician / Nutritionist
  Median Wage: $57,762
  % Growth: 24%

Courses: Exercise Science & Wellness

Principles of Health Science Course Number: 6401 Offered in: 9-12 Credits: 1 credit Prerequisites: None	This introductory course exposes students to the health care industry. Students will gain an overview of the health care industry including exercise science and wellness, certified nursing, medical assisting, emergency medical services, and ethical and legal concerns in the industry.
Kinesiology I Course Number: TBD Offered in: 10-12 Credits: 1 credit Prerequisites: Principles of Health Science	This course is designed to introduce students to the basic concepts of kinesiology. Students will gain an understanding of body mechanics, physiological function of muscles and movements, the history of kinesiology, and the psychological impact of sports and athletic performance. Students will also explore careers with the kinesiology field and be able to explain the societal demands for kinesiology-related jobs. Students expected to also take Athletics course for laboratory experience with this course.
Kinesiology II Course Number: TBD Offered in: 11-12 Credits: 1 credit Prerequisites: Kinesiology I	This course is designed to provide students an advanced level of knowledge, skills, and understanding of body composition and the effect on health, nutritional needs of physically active individuals, appropriate rehabilitation services, and aerobic training intensity programs. Students explore the exercise business model and gain an understanding of therapeutic sports psychology. Students expected to also take Athletics course for laboratory experience with this course.
Anatomy & Physiology Course Number: 3266 Offered in: 10-12 Credits: 1 credit Prerequisites: Kinesiology II	This course allows students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.
Career Prep I Course Number: 6910 Offered in: 11-12 Credits: 2 credits Prerequisites: None	This course provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.



Graphic Design & Multimedia Arts

Fashion Design

Students work in the Fashion Design Lab, where students bring their creations to life, working with a variety of fashion industry machines. Students partner with the Cosmetology department to plan, create, and organize runway shows, fashion competitions, and other events that allow them to showcase the creative and innovative designs they complete. In addition to the creation skills, students also learn about the organization and management techniques necessary to work in the fashion industry. Students completing this Program of Study can earn a variety of Adobe Certified Professional Certificates.

Course Sequence:

- Digital Media
- Fashion Design I
- Fashion Design II
- Career Preparation I

Industry-Based Certification:

- Adobe Certified Professional in Graphic Design and Illustration using Adobe Illustrator

Career & Technical Student Organization (CTSO)

- SkillsUSA is a partnership of students, teachers, and industry working together to ensure America has a skilled workforce. They help each student excel. A nonprofit national education association, SkillsUSA serves middle-school, high-school and college/postsecondary students preparing for careers in trade, technical, and skilled service occupations.

For more information, go to skillsusa.org

Postsecondary Opportunities

- Associate's Degree
  - Graphic Desing
- Bachelor's Degree
  - Fashion Manufacturing
  - Marketing
- Master's / Doctoral Degrees
  - Fashion Management

Job Market

- Graphic Designer
  Median Wage: $44,824
  % Growth: 15%
- Multimedia Artist
  Median Wage: $67,392
  % Growth: 21%
- Fashion Designer
  Median Wage: $83,657
  % Growth: 12%

Courses: Graphic Design & Multimedia Arts – Fashion Design

Digital Media Course Number: 6715 Offered in: 9-12 Credits: 1 credit Prerequisites: None	This course allows students to analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a ``123456technology-driven society. Students will apply reading, writing, computing, communication, and critical thinking to an IT environment.
Fashion Design I Course Number: 6301 Offered in: 10-12 Credits: 1 credit Prerequisites: Digital Media	This course introduces students to the knowledge and skills required for a career in the Fashion Industry. Students study all aspects of the textile and apparel industries and develop an understanding of the fashion industry with an emphasis on design and construction. Students work individually and in groups to create products based on their understanding of the factors that impact consumer purchasing of fashion and apparel.
Fashion Design II Course Number: TBD Offered in: 11-12 Credits: 2 credits Prerequisites: Fashion Design I	This course strengthens students' knowledge and skills in all aspects of the textile and apparel industries as they develop deeper understanding of the fashion industry with an emphasis on design and construction. Students continue project-based learning while creating a portfolio of their design work, highlighting their ability to design, develop, and construct garments and perform evaluations on existing garments.
Career Prep I Course Number: 6910 Offered in: 11-12 Credits: 2 credits Prerequisites: None	This course provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

Graphic Design

Students work in both the Computer Design Lab and the Broadcast Studio to learn about the many different software programs and techniques available to create a variety of graphic design projects. Students will work to create graphics, displays, logos, and other promotional material for real-life clients as they collaborate to bring their ideas to life through computer aided artistry. Students completing this Program of Study can earn a variety of Adobe Certified Professional Certifications.

Course Sequence:

- Principles of Arts, A/V Technology, and Communications
  OR
- Digital Media
- Graphic Design & Illustration I
- Graphic Design & Illustration II
- Practicum in Graphic Design & Illustration

Industry-Based Certification:

- Adobe Certified Professional in Visual Design Using Adobe Photoshop

Career & Technical Student Organization (CTSO)

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For more information, go to skillsusa.org

Postsecondary Opportunities

- Associate's Degree
  - Animation
- Bachelor's Degree
  - Interactive Technology
  - Video Graphics/Game Design
- Master's / Doctoral Degrees
  - Graphic Design
  - Inter / Multimedia

Job Market

- Graphic Designer
  Median Wage: $44,824
  % Growth: 15%
- Multimedia Artist
  Median Wage: $67,392
  % Growth: 21%
- Game Designer
  Median Wage: $79,890
  % Growth: 11%

Courses: Graphic Design & Multimedia Arts – Graphic Design

Principles of Arts, A/V Technology & Communications Course Number: 6356 Offered in: 9-12 Credits: 1 credit Prerequisites: None	This course introduces students to the knowledge and skills necessary for a career and/or postsecondary education in the Digital Communication industry. Students will use their own creativity to develop their background in computer and technology applications, oral and written communication, and techniques for planning, implementing, and completing projects. The course provides an exploration of the various and multifaceted career and educational opportunities in the field.
Digital Media Course Number: 6715 Offered in: 9-12 Credits: 1 credit Prerequisites: None	This course allows students to analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a ``123456technology-driven society. Students will apply reading, writing, computing, communication, and critical thinking to an IT environment.
Graphic Design & Illustration I Course Number: 6395 Offered in: 10-12 Credits: 1 credit Prerequisites: Prin of Arts ,A/V Tech & Comm or Digital Media	This course allows students to develop knowledge and skills across all aspects of the advertising and visual communication industries. Students focus on fundamental elements and principals of visual art and design as they work on various projects demonstrating their knowledge of design systems and cyber safety procedures. Students also conduct oral and written critiques of designs and must interpret, evaluate, and justify design decisions.
Graphic Design & Illustration II Course Number: 6391 Offered in: 11-12 Credits: 1 credit Prerequisites: Graphic Design & Illustration I	This course strengthens students' knowledge and skills across all aspects of the advertising and visual communication industries. Students focus on mastery of content through maintenance of a career portfolio to document information such as project experiences, licenses/certifications, and work samples. Students employ a creative design process to create original two- and three-dimensional projects and must provide more detailed and written critiques of designs while interpreting, evaluating, and justifying design decision.
Practicum in Graphic Design & Illustration Course Number: 6394 Offered in: 11-12 Credits: 2 credits Prerequisites: Graphic Design & Illustration II	This course places students in real-world experiences and environments to apply their knowledge and skill to practical art and design projects. Students continue to develop and strengthen their portfolio by employing more complex design processes and creating original two- and three- dimensional projects, while providing industry appropriate oral and written critiques of designs while interpreting, evaluating, and justifying design decision.

Healthcare Diagnostics

Students work in the Health Science Laboratories, in true-to-life simulations to learn the skills necessary to work in a variety of health-related professions. Using both theoretical knowledge and clinical applications, students apply their skills in practical environments that allow them to explore further opportunities in the Health Care Industry. Students completing this Program of Study can become a Certified Medical Assistant.

Course Sequence:

- Principles of Health Science
- Medical Terminology
- Health Science Theory / Health Science Clinical
- Anatomy & Physiology

Industry-Based Certification:

- Medical Assistant

Career & Technical Student Organization (CTSO)

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For more information, go to hosa.org

Postsecondary Opportunities

- Associate's Degree
  - MRI Technology
- Bachelor's Degree
  - Nuclear Medical Technology
  - Science Radiation Therapy
- Master's / Doctoral Degrees
  - Radiology / Radiologic Technology

Job Market

- MRI Technologist
  Median Wage: $68,661
  % Growth: 21%
- Diagnostic Medical Sonographer
  Median Wage: $69,909
  % Growth: 35%
- Nuclear Medicine Technologist
  Median Wage: $75,962
  % Growth: 13%

Courses: Healthcare Diagnostics

Principles of Health Science Course Number: 6401 Offered in: 9-12 Credits: 1 credit Prerequisites: None	This introductory course exposes students to the health care industry. Students will gain an overview of the health care industry including exercise science and wellness, certified nursing, medical assisting, emergency medical services, and ethical and legal concerns in the industry.
Medical Terminology Course Number: 6411 Offered in: 10-12 Credits: 1 credit Prerequisites: Principles of Health Science	This course introduces students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.
Health Science Theory/ Health Science Clinical Course Number: 6406 Offered in: 11-12 Credits: 2 credits Prerequisites: Medical Terminology	This course provides students both a theoretical and clinical view of careers in the health industry. Students work in classroom settings to develop advanced knowledge and skills in analyzing systematic procedures for problem solving, evaluating the impacts of decisions, and suggesting modifications based on outcomes. Students also work in a clinical setting to employ medical vocabulary specific to health care settings, perform admission, discharge, and transfer functions, and study industry standards.
Anatomy & Physiology Course Number: 3266 Offered in: 10-12 Credits: 1 credit Prerequisites: Medical Terminology	This course allows students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

Information Technology & Support Services

Students work in one of the Computer Science labs, where they explore various educational opportunities available while administering and creating computer databases and management systems. Students work hands-on with various pieces of technological equipment to extend their knowledge and prepare for future learning and/or employment in the Technology industry. Students completing this Program of Study can earn a Google IT Support Professional Certificate.

Postsecondary Opportunities

- Associate's Degree
  - Animation
- Bachelor's Degree
  - Interactive Technology
  - Video Graphics/Game Design
- Master's / Doctoral Degrees
  - Graphic Design
  - Inter / Multimedia

Job Market

- Database Administrator
  Median Wage: $83,075
  % Growth: 19%
- Computer System Analyst
  Median Wage: $87,568
  % Growth: 29%
- Computer Hardware Engineer
  Median Wage: $111,738
  % Growth: 24%

Course Sequence:

- Principles of Information Technology
- Computer Maintenance
- IT Troubleshooting
- Practicum in Information Technology

Industry-Based Certification:

- Google IT Support Professional Certificate

Career & Technical Student Organization (CTSO)

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For more information, go to skillsusa.org

Courses: Information Technology & Support Services

Principles of Information Technology Course Number: 6711 Offered in: 9-12 Credits: 1 credit Prerequisites: None	This course allows students to develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students will enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment.
Computer Maintenance Course Number: TBD Offered in: 9-12 Credits: 1 credit Prerequisites: Principles of Information Technology	This course allows students to acquire knowledge of computer maintenance and create appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as related to computer maintenance. Students will apply technical skills to address the IT industry and emerging technology.
IT Troubleshooting Course Number: TBD Offered in: 10-12 Credits: 1 credit Prerequisites: Computer Maintenance	This course allows students to apply logic over technical components to identify and resolve problems. The course focuses on developing a methodical approach in IT troubleshooting and leveraging those skills in a workplace environment. Students will learn to use IT resources, information, and data safely, ethically, and following legal guidelines. They will work within a service level model that helps them to interpret, clarify, and diagnose issues with hardware, software, and networking.
Practicum in Information Technology Course Number: TBD Offered in: 11-12 Credits: 2 credits Prerequisites: IT Troubleshooting	This course gives students advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services, and systems. They learn the proper use of analytical skills and application of IT concepts and standards to prepare for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted in a classroom setting with an industry mentor, as an unpaid or paid internship, as part of a capstone project, or as career preparation.

Law Enforcement

Students work in the Law Enforcement Classroom and Forensics Lab in real-world scenarios designed to help them understand various aspects of law enforcement. Students work through crime scenes, conduct investigations, develop legal strategies in mock court scenarios, and partner with local law enforcement professionals to cover all aspects of a career in this field. Students completing this Program of Study may earn a Non-Commissioned Security Officer certificate.

Course Sequence:

- Principles of Law, Public Safety, Corrections, & Security
- Law Enforcement I
- Law Enforcement II
- Practicum in Law, Public Safety, Corrections, & Security
- OR
- Forensic Science

Industry-Based Certification:

- Non-Commissioned Security Officer Level II

Career & Technical Student Organization (CTSO)

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For more information, go to skillsusa.org

Postsecondary Opportunities

- Associate's Degree
  - Criminal Science
- Bachelor's Degree
  - Criminal Justice
  - Computer Forensics
- Master's / Doctoral Degrees
  - Criminal Justice / Law Enforcement
  - Enforcement Administration

Job Market

- Police / Sheriff Officer
  Median Wage: $60,112
  % Growth: 13%
- Customs Inspector
  Median Wage: $78,104
  % Growth: 9%

  Supervisor – Police/Detectives
  Median Wage: $91,312
  % Growth: 25%

Courses: Law Enforcement

Principles of Law, Public Safety, Corrections, & Security Course Number: 6600 Offered in: 9-12 Credits: 1 credit Prerequisites: None	This course introduces students to professions in law enforcement, protective services, corrections, firefighting, and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of skills necessary for careers in a variety of criminal justice fields.
Law Enforcement I Course Number: 6610 Offered in: 10-12 Credits: 1 credit Prerequisites: Principles of Law, Public Safety, Corrections, & Sec.	This course is an overview of the history, organization, and functions of local, state, and federal law enforcement. Students will understand the role of constitutional law at local, state, and federal levels; the U.S. legal system; criminal law; and law enforcement technology and the classification and elements of crime.
Law Enforcement II Course Number: 6615 Offered in: 11-12 Credits: 1 credit Prerequisites: Law Enforcement I	This course allows students to extend their learning on functions of local, state, and federal law enforcement so they may acquire the knowledge and skills necessary to prepare for a for a career in law enforcement. Students will understand ethical and legal responsibilities, patrol procedures, first responder roles, telecommunications, emergency equipment operations, and courtroom testimony.
Practicum in Law, Public Safety, Corrections, & Security Course Number: 6620 Offered in: 11-12 Credits: 2 credits Prerequisites: Law Enforcement II	This course is designed to give students supervised practical application of previously studied knowledge and skills in law, public safety, corrections, and security. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.
Forensic Science Course Number: 6611 Offered in: 11-12 Credits: 1 credit Prerequisites: Biology & Chemistry	This course introduces students to the application of science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Students will learn terminology and procedures related to the search and investigation of physical evidence in criminal cases as they are performed in a typical crime laboratory. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, and cartridge cases.

Nursing Science - Certified Nurse Aide

Students work in the Health Science Laboratories, in true-to-life simulations, including a full-scale ambulance simulator, to learn the skills necessary to work as a Certified Nurse Aide. Students work not just in the campus labs but in off-campus health care facilities to earn hours and develop practical knowledge for entry into the Health Science industry. Students that complete this Program of Study can earn their CNA license.

Course Sequence:

- Principles of Health Science
- Medical Terminology
- Anatomy & Physiology
- Practicum in Health Science

Industry-Based Certification:

- Certified Nurse Aide (CAN)

Career & Technical Student Organization (CTSO)

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For more information, go to hosa.org

Postsecondary Opportunities

- Associate's Degree
  - Registered Nursing
- Bachelor's Degree
  - Nurse Informatics
- Master's / Doctoral Degrees
  - Nurse Practitioner
  - Nursing Administration

Job Market

- Registered Nurse
  Median Wage: $68,682
  % Growth: 26%
- Nurse Practitioner
  Median Wage: $107,827
  % Growth: 50%
- Nurse Anesthetist
  Median Wage: $154,856
  % Growth: 23%

Courses: Nursing Science - Certified Nurse Aide

Principles of Health Science Course Number: 6401 Offered in: 9-12 Credits: 1 credit Prerequisites: None	This introductory course exposes students to the health care industry. Students will gain an overview of the health care industry including exercise science and wellness, certified nursing, medical assisting, emergency medical services, and ethical and legal concerns in the industry.
Medical Terminology Course Number: 6411 Offered in: 10-12 Credits: 1 credit Prerequisites: Principles of Health Science	This course introduces students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.
Anatomy & Physiology Course Number: 3266 Offered in: 10-12 Credits: 1 credit Prerequisites: Medical Terminology	This course allows students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.
Practicum in Health Science Course Number: 6419 Offered in: 11-12 Credits: 2 credits Prerequisites: Anatomy & Physiology	This course gives students practical applications of previously studied knowledge and skills, with a focus on earning the Certified Nurse Aide certification. Students will work through curriculum and apply practical skills while earning hours that count toward the CNA certification. The course will prepare students to enter the medical field upon graduation and/or pursuing post-secondary education goals.

Nursing Science - Emergency Medical Technician

Students work in the Health Science Laboratories, in true-to-life simulations, including a full-scale ambulance simulator, to learn the skills necessary to work as an Emergency Medical Technician. Students work not just in the campus labs but in off-campus health care facilities to earn hours and develop practical knowledge for entry into the Health Science industry. Students that complete this Program of Study can earn their Texas EMT-B license.

Course Sequence:

- Principles of Health Science
- Medical Terminology
- Anatomy & Physiology
- Emergency Medical Technician

Industry-Based Certification:

- Emergency Medical Technician - Basic

Career & Technical Student Organization (CTSO)

- HOSA is a global student-led organization recognized by the U.S. Department of Education and the Department of Health and Human Services and several federal and state agencies. HOSA's mission is to impower HOSA-Future Health Professionals to become leaders in the global health community, through education, collaboration, and experience. HOSA actively promotes career opportunities in the health industry and to enhance the delivery of quality health care to all people.

For more information, go to hosa.org

Postsecondary Opportunities

- Associate's Degree
  - Registered Nursing
- Bachelor's Degree
  - Nurse Informatics
- Master's / Doctoral Degrees
  - Nurse Practitioner
  - Nursing Administration

Job Market

- Registered Nurse
  Median Wage: $68,682
  % Growth: 26%
- Nurse Practitioner
  Median Wage: $107,827
  % Growth: 50%
- Nurse Anesthetist
  Median Wage: $154,856
  % Growth: 23%

Courses: Nursing Science - Emergency Medical Technician

Principles of Health Science Course Number: 6401 Offered in: 9-12 Credits: 1 credit Prerequisites: None	This introductory course exposes students to the health care industry. Students will gain an overview of the health care industry including exercise science and wellness, certified nursing, medical assisting, emergency medical services, and ethical and legal concerns in the industry.
Medical Terminology Course Number: 6411 Offered in: 10-12 Credits: 1 credit Prerequisites: Principles of Health Science	This course introduces students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.
Anatomy & Physiology Course Number: 3266 Offered in: 10-12 Credits: 1 credit Prerequisites: Biology and a second Science credit	This course allows students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.
Emergency Medical Technician Course Number: 6414 Offered in: 11-12 Credits: 2 credits Prerequisites: Biology, Principles of Health Science, Med Terms	This course is a preparation course for certification as an EMT-Basic. The course includes all the skills necessary to provide emergency medical care at a basic life support level with either an emergency service or other specialized service. Extended learning experiences are a part of the class through partnerships with industry professionals.

Plant Science

Students work in the Greenhouse and Floral Design Lab learning about all the aspects of horticulture and the floral industry. Students maintain and operate different plants in the greenhouse and make professional floral arrangements in the lab, working toward the Principles of Floral Design Certification and/or the Texas State Florist's Association Level 1 Floral Certification.

Course Sequence:

- Principles of Agriculture, Food, & Natural Resources
- Floral Design
- Advanced Floral Design
- Advanced Plant & Soil Science
  OR
- Greenhouse Operation & Production

Industry-Based Certification:

- Principles of Floral Design Certification
- Texas State Florist's Association Level 1 Floral Certification

Career & Technical Student Organization (CTSO)

- Future Farmers of America (FFA) - is a dynamic youth organization that changes lives and prepares members for premier leadership, personal growth and career success through agriculture education. FFA develops members' potential and helps them discover their talent through hands-on experiences, which give members the tools to achieve real-world success.

For more information, go to ffa.org

Postsecondary Opportunities

- Associate's Degree
  - Ornamental Horticulture
- Bachelor's Degree
  - Applied Horticulture
  - Turf & Turfgrass Management
- Master's / Doctoral Degrees
  - Graphic Design
  - Inter / Multimedia

Job Market

- Biological Technician
  Median Wage: $42,931
  % Growth: 17%
- Landscaping Supervisor
  Median Wage: $44,408
  % Growth: 19%
- Soil & Plant Scientist
  Median Wage: $54,662
  % Growth: 21%

Courses: Plant Science

Principles of Agriculture, Food & Natural Resources Course Number: 6100 Offered in: 9-12 Credits: 1 credit Prerequisites: None	This course allows students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. To prepare for success, students need opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings.
Floral Design Course Number: 6140 Offered in: 10-12 Credits: 1 credit Prerequisites: None	This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Students will acquire technical knowledge and skills related to horticultural systems, career opportunities, entry requirements, and industry expectations.
Advanced Floral Design Course Number: 6141 Offered in: 11-12 Credits: 1 credit Prerequisites: Floral Design	This course builds on students' knowledge from Floral Design and introduces them to more advanced floral design concepts, with an emphasis on specialty designs and specific occasion planning. This course focuses on providing students with a thorough understanding of the design elements and planning techniques used to produce unique specialty floral designs that support the goals and objectives of a specific occasion or event.
Advanced Plant & Soil Science Course Number: 6131 Offered in: 11-12 Credits: 1 credit Prerequisites: Advanced Floral Design	This course provides a way of learning about the natural world. Students learn how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. Students learn the technical skills related to plant and soil science and the workplace, including aspects regarding career opportunities and industry expectations.
Greenhouse Operation & Production Course Number: TBD Offered in: 11-12 Credits: 2 credits Prerequisites: Advanced Floral Design	This course is designed to develop an understanding of greenhouse production techniques and practices. Students prepare for careers in horticulture systems by developing knowledge and skills regarding career opportunities, entry requirements, and industry expectations. Students work in both classroom and laboratory settings to apply their knowledge and skills to the development and maintenance of an on-campus greenhouse operation.

Programming & Software Development

Students work in the Computer Science Lab in a variety of computer languages designed to assist in developing and designing operating systems-level software. Students create their own material, as well as work with real-life situations, to apply their learning to potential scenarios faced in the industry. Students completing this Program of Study may become C++ Certified Associate Programmers and/or Certified Entry-Level Python Programmers.

Postsecondary Opportunities

- Associate's Degree
  - Computer Programming
- Bachelor's Degree
  - Computer Science
  - Management Information Systems
- Master's / Doctoral Degrees
  - Computer Science
  - Information Science

Job Market

- Computer Programmer
  Median Wage: $79,893
  % Growth: 9%
- Software Systems Developer
  Median Wage: $103,334
  % Growth: 25%
- Software Application Developer
  Median Wage: $104,499
  % Growth: 30%

Course Sequence:

- Computer Science I
- Computer Science II
- AP Computer Science Principles
- AP Computer Science A (Math/LOTE)

Industry-Based Certification:

- C++ Certified Associate Programmer
- Certified Entry-Level Python Programmer (PCEP)

Career & Technical Student Organization (CTSO)

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For more information, go to skillsusa.org

Courses: Programming & Software Development

Computer Science I Course Number: 6376 Offered in: 9-12 Credits: 1 credit Prerequisites: None	This course is designed to foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Using computer science knowledge, students will select the technology appropriate for the task, synthesize knowledge, create a solution, and evaluate the results, all while learning to be good digital citizens.
Computer Science II Course Number: 6377 Offered in: 10-12 Credits: 1 credit Prerequisites: Computer Science I, Algebra I	This course allows students to collaborate with one another, their instructor and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students gain an understanding of computer science through the study of technology operations, systems, and concepts.
AP Computer Science Principles Course Number: 6371 Offered in: 10-12 Credits: 1 credit Prerequisites: Algebra I	This course is an introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge.
AP Computer Science A (Math / LOTE) Course Number: 6367 / 6382 Offered in: 10-12 Credits: 2 credit Prerequisites: AP Computer Science Principles	This course is an advanced college-level computing course that allows students to design a program, develop the algorithms it needs, and write code to implement it. Students also test program code and correct errors, as well as document and explain how program code works. This course is two credits, one semester for Math credit and the other semester for LOTE credit.

Teaching & Training

Students work in the Teaching & Training Center, where they learn the skills necessary for advancement into the Education field. Students create instructional materials and learn about pedagogy in classroom settings, then apply that knowledge in real-world environments through partnerships with other campuses in SMCISD. Students completing this Program of Study may earn an Educational Aide I certificate.

Course Sequence:

- Principles of Education & Training
- Human Growth & Development
- Instructional Practices
- Practicum in Education & Training

Industry-Based Certification:

- Educational Aide I

Career & Technical Student Organization (CTSO)

- The Texas Association of Future Educators is a co-curricular statewide non-profit student organization created to allow young men and women an opportunity to explore the teaching profession. The organization was created in 1984 to provide the best and brightest high school and middle school students in Texas with the necessary knowledge to make informed decisions about pursuing careers in education.

For more information, go to tafeonline.org

Postsecondary Opportunities

- Associate's Degree
  - Teacher Education
- Bachelor's Degree
  - Education, General
  - Special Education
- Master's / Doctoral Degrees
  - Instruction & Learning
  - Educational Leadership & Administration

Job Market

- Classroom Teacher
  Median Wage: $54,392
  % Growth: 12%
- Special Education Teacher
  Median Wage: $56,720
  % Growth: 18%
- Elective Teacher
  Median Wage: $56,360
  % Growth: 9%

Courses: Teaching & Training

Principles of Education & Training Course Number: 6315 Offered in: 9-12 Credits: 1 credit Prerequisites: None	This course is designed to introduce students to the various careers within the Education field. Students use self-knowledge as well as educational and career information to analyze various careers and the societal influences on education and various school models. Additionally, students learn the role and responsibilities of a classroom educator. Students will develop a graduate plan that leads to a specific career choice of the student's interest.
Human Growth & Development Course Number: 6314 Offered in: 10-12 Credits: 1 credit Prerequisites: Principles of Education & Training	This course is an examination of human development across the lifespan with emphasis on research, theoretical perspectives, and common physical, cognitive, emotional, and social developmental milestones. The course covers material that is generally taught in a postsecondary, one-semester introductory course in developmental psychology or human development.
Instructional Practices Course Number: 6305 Offered in: 11-12 Credits: 2 credits Prerequisites: Human Growth & Development	This course is field-based and provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators in direct instructional roles with students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, and perform other duties of teachers.
Practicum in Education & Training Course Number: 6306 Offered in: 11-12 Credits: 2 credits Prerequisites: Instructional Practices	This course is field-based and provides students further knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students continue to work under the joint direction of their classroom teacher and exemplary educators in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and perform other duties of various educators.

CTE Electives – Non Programs of Study

The courses in this section are from the Career and Technical Education department and can be taken separate from a designated program of study.

Dollars & Sense Course Number: TBD Offered in: 9-12 Credits: 1/2 credit Prerequisites: None	This course focuses on consumer practices and responsibilities, money-management processes, decision-making skills, impact of technology, and preparation for management of finances in postsecondary life. Students will learn management of individual and family resources such as finances, food, clothing, shelter, health care, recreation, transportation, time, and human capital.
Engineering Mathematics Course Number: 6750 Offered in: 11-12 Credits: 1 credit Prerequisites: Algebra II	This course allows students to solve and model design problems. Students use a variety of mathematical methods and models to represent and analyze problems that represent a range of real-world engineering applications such as robotics, data acquisition, spatial applications, electrical measurement, manufacturing processes, materials engineering, mechanical drives, pneumatics, process control systems, and computers.
Professional Communication Course Number: TBD Offered in: 9-12 Credits: 1/2 credit Prerequisites: None	This course allows students to blend written, oral, and graphic communication in a career-based environment. Students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research. This builds the students creativity and provides a strong background in computer and technology applications and a proficiency in professional oral and written communication.
Statistics & Business Decision Making Course Number: 2612 Offered in: 11-12 Credits: 1 credit Prerequisites: Algebra II	This course is an introduction to statistics and the application of statistics to business decision making. Students will use statistics to make decisions based on scenarios from actual business environments. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid.

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San Marcos Consolidated ISD

631 Mill Street
San Marcos, TX 78667

(512) 393-6700
www.smcisd.net