ENGLISH LANGUAGE ARTS

ENGLISH I
Grade: 9-12  Credits: 1  Prerequisites: None
This course offers a guided exploration of literature across genres in preparation of the STAAR EOC - ENGLISH I. Students will learn how to incorporate the elements of reading, writing, conventions, research, and listening/speaking in the process of both studying professional works as well as creating original works.

ENGLISH II
Grade: 10-12  Credits: 1  Prerequisites: English I
This course offers an exploration of WORLD literature across cultures in preparation of the STAAR EOC ENGLISH II. Students will learn how to incorporate the elements of reading, writing, conventions, research, and listening/speaking in the process of both studying professional works as well as creating original works.

ENGLISH III
Grade: 11-12  Credits: 1  Prerequisites: English II
This course offers an exploration of literature across the AMERICAN timeline. Students will learn how to incorporate the elements of reading, writing, conventions, research, and listening/speaking in the process of both studying professional works as well as creating original works.

ENGLISH IV
Grade: 12  Credits: 1  Prerequisites: English III
This course offers an exploration of literature across the BRITISH timeline. Students will learn how to incorporate the elements of reading, writing, conventions, research, and listening/speaking in the process of both studying professional works as well as creating original works.

MATHMATICS

ALGEBRA I
Grade: 9-12  Credits: 1  Prerequisites: None
This course provides a foundation for problem solving and abstract thinking skills. The basic understanding of number operations, quantitative reasoning, patterns, relationships and algebraic thinking, geometry, measurement, and probability and statistics, are essential foundation for all work in high school mathematics. This course includes the study of real numbers, equations, inequalities, polynomials, graphing, symbolic reasoning, and function concepts in preparation of the STAAR EOC - ALGEBRA I.

GEOMETRY
Grade: 9-12  Credits: 1  Prerequisites: Algebra I
This course is designed to develop the student’s logic and reasoning abilities. It includes plane, solid, coordinate, and transformation geometry and provides the study of basic definitions, postulates and theorems with proofs, transformations, congruencies, similarities, coordinate geometry, area, and volume.

MATH Applications in Agriculture, Food, and Natural Resources
Grade: 10-12  Credits: 1  Prerequisites: Algebra I
Mathematical Applications in AFNR is designed to build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and 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. Students will select from tools such as physical objects; manipulatives; technology, including graphing calculators, data collection devices, and computers; and paper and pencil and from methods such as algebraic techniques, geometric reasoning, patterns, and mental math to solve problems.

ALGEBRA II
Grade: 10-12  Credits: 1  Prerequisites: Alg I, Geom (or concurrent enrollment w/teacher approval)
This course is designed to provide students with a systematic development of real and complex number systems. Emphasis will be placed on relations and functions, polynomials, matrices and determinants, quadratic functions, exponential and logarithmic functions, and sequences and series.

PRE-CALCULUS
Grade: 11-12  Credits: 1  Prerequisites: Geometry, Algebra II
In this course, students use symbolic reasoning and analytical methods to represent mathematical situations, to express generalizations, and to study mathematical concepts and the relationships among them. Students use functions, equations, and limits as useful tools for expressing generalizations and as means for analyzing and understanding a broad variety of mathematical relationships. Students also use functions as well as symbolic reasoning to represent and connect ideas in geometry, probability, statistics, trigonometry, and calculus and to model physical situations.
Mathematics

Calculus
Grade: 11-12 Credits: 1 Prerequisites: Alg.1, Alg. II, Geometry, and Pre-Calculus
The course will cover topics, concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically and verbally and to make connections among these representations.

Statistics
Grade: 9-12 Credits: 1 Prerequisite: Alg. 1
Students will work with probability, data collections descriptive and inferential statistics, probability and technological tools to analyze statistics.

Science

Biology
Grade: 9-12 Credits: 1 Prerequisites: None
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 concepts in preparation of the STAAR EOC - BIOLOGY. 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
Grade: 10-12 Credits: 1 Prerequisites: Biology, ALG I
This course allows students to 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.

Honors Chemistry
Grade: 10-12 Credits: 1 Prerequisites: Biology, Alg I 85+ avg
This accelerated course prepares students for the AP CHEMISTRY exam. 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
Grade: 11-12 Credits: 1 Prerequisites: Biology, concurrent or completion of Algebra II
In this course, 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. Students who successfully complete Physics will acquire factual knowledge within a conceptual framework, practice experimental design and interpretation, work collaboratively with colleagues, and develop critical thinking skills.

Honors Physics
Grade: 11-12 Credits: 1 Prerequisites: ALG I 85+ avg
This accelerated course requires critical thinking skills to successfully prepare students for the AP PHYSICS exam. In this course, 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.

Social Studies

World History
Grade: 9-10 Credits: 1 Prerequisites: None
This course is a survey of the history of humankind. 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.

World Geography
Grade: 9-10 Credits: 1 Prerequisites: None
In World Geography Studies, 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. Students analyze how location affects economic activities in different economic systems. Students identify the processes that influence political divisions of the planet and analyze how different points of view affect the development of public policies.
Social Studies

UNITED STATES HISTORY
Grade: 11-12  Credits: 1  Prerequisites: None
In this course, students will study the emergence of the United States as a world power, demonstrate an understanding of issues and events in U.S. history, analyze geographic influences on the historical development of the U.S., identify economic and social influences on the development and growth of the U.S., demonstrate an understanding of political influences on historical issues and events, and use critical thinking skills to analyze social studies information. STAAR EOC U.S. HISTORY objectives will be practiced in preparation for the test.

UNITED STATES GOVERNMENT
Grade: 12  Credits: .5  Prerequisites: None
In this course, students will study the foundations of the U.S. political system, development of the U.S. governmental system, structures and functions of the three branches of our government, and participation and decision making in civic affairs. A study of current national and international events will be included in the curriculum.

ECONOMICS
Grade: 12  Credits: .5  Prerequisites: None
This course is designed to provide an opportunity for students to study the basic principles of the American free enterprise system. In addition, the role of government in the American economic system as well as a comparative study of economic systems will be included for students to examine and analyze. The rights and responsibilities of consumers and the importance of consumer education in the areas of credit, savings, and taxation will be discussed.

AGRICULTURE SCIENCE & TECHNOLOGY

PRINCIPLES OF AGRICULTURE, FOOD, AND NATURAL RESOURCES
Grade: 8-12  Credits: 1  Prerequisites: NONE
This is a prerequisite course that enhances the agricultural comprehension of young adults. This course includes agricultural career development, leadership, communications, and personal finances. This course provides an overview of soil and plants, animals, and agricultural construction.

LIVESTOCK PRODUCTION
Grade: 10-12  Credits: 1  Prerequisites: Prin of Ag
To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. Animal species to be addressed in this course may include, but are not limited to, beef cattle, dairy cattle, swine, sheep, goats, and poultry.

Veterinary Medical Applications Grade: 11-12
Credit: 1  Prerequisite: Prin of AFNR, Livestock Production
To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge and acquire knowledge and skills related to animal systems. Topics covered in this course include but are not limited to, veterinary practices as they relate to both large and small animal species.

Advanced Animal Science
Grade: 11-12  Credit: 1  Prerequisites: Biology, Chemistry or IPC, Alg. 1, Geometry, Livestock Production, Vet Med Apps (Counts as a 4th science credit)
This course will include topics of animal reproduction, selection and grading, anatomy and physiology, growth and development, and animal industry standards. Instruction is designed to allow for the application of scientific and technological aspects of animal science.

AGRICULTURAL MECHANICS AND METAL TECHNOLOGIES
Grade: 9-12  Credits: 1  Prerequisites: Prin of Ag
This exploratory course introduces students to agricultural mechanics with emphasis on basic theory and technical skill development. The course develops an understanding of tool operations, electrical wiring, plumbing, carpentry, and metalworking techniques.

AGRICULTURAL FACILITIES DESIGN & FABRICATION
Grade: 11-12  Credits: 1  Prerequisites: Ag Mech & Metal
To be prepared for careers in mechanized agriculture and technical systems, students attain knowledge and skills related to agricultural facilities design and fabrication. Students explore career opportunities, entry requirements, and industry expectations. To prepare for success, students reinforce, apply, and transfer their academic knowledge and technical skills in a variety of settings.

PRACTICUM IN AGRICULTURE
Grade: 12  Credits: 2  Prerequisites: min.1 cr from Ag cluster
The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the manufacturing cluster. The practicum is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. This course is offered as a double-blocked class period.

PHYSICAL EDUCATION

FOUNDATIONS OF PERSONAL FITNESS
Grade: 12  Credits: 1  Prerequisites: None
This course presents 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 their health. Skills taught in this course include the process of becoming fit as well as achieving some degree of fitness within the class. The concept of wellness, or striving to reach optimal levels of health, is the cornerstone of this course and is exemplified by students designing their own personal fitness program.

ATHLETICS I-IV
Grade: 9-12  Credits: 1  Prerequisites: Physical Eval
This is a highly accelerated course to prepare boys and girls for UIL competition in sports. Activities include: football, volleyball, cross country, basketball, softball, baseball, tennis, golf, and track & field.

FOREIGN LANGUAGE

SPANISH I
Grade: 9-12  Credits: 1  Prerequisites: None
This course will enable students to learn vocabulary and language structures needed to communicate about daily experiences. An emphasis on listening, oral proficiency and language study skills provides the non-native speaker opportunities to establish a good foundation for further language study.

SPANISH II
Grade: 9-12  Credits: 1  Prerequisites: Spanish I
This course is an intermediate course that will enable students to master simple expressions and vocabulary to conduct daily conversation on
familiar topics. It is a continuation of the development of the fundamental Spanish language skills.

SPANISH III
Grade: 10-12 Credits: 1 Prerequisites: Spanish II
This course is a demanding course that continues the development of proficiency in all four fundamental language skills. Students will work toward mastery of all basic grammar structures and proficiency in many advanced structures. Students should expect much of the class to be conducted in Spanish.

SPANISH IV Grade: 11-12 Credits: 1 Prerequisites: Spanish III
This course covers the equivalent of a college level course in advanced Spanish composition and conversation. Students will read and discuss literary selections in order to improve speaking and reading skills. Grammar and vocabulary will be refined to accomplish a variety of communication tasks including writing and speaking in formal and informal registers. Students should expect the entire class to be conducted in Spanish.

FINE ARTS

ART I
Grade: 9-12 Credits: 1 Prerequisites: None
This course is an introduction to the basic elements of art designed for the beginning art student. Students will be provided with opportunities to put skills and information to form through a variety of media. Topics of study include, but are not limited to, basic drawing, line, shape/volume, texture, illusion of space, illusion of movement, value, and color.

ART II
Grade: 9-12 Credits: 1 Prerequisites: Art I
This course is designed for those students who wish to extend their studies from Art I. Emphasis of study will be on the principles of design, including, but not limited to, unity, focal point, scale/proportion, balance, and rhythm.

ART III
Grade: 10-12 Credits: 1 Prerequisites: Art II
This course allows students to develop aesthetic and cultural awareness through exploration, leading to creative expression. Students rely on personal observations and perceptions, which are developed through increasing visual literacy and sensitivity to surroundings, communities, memories, imaginings, and life experiences as sources for thinking about, planning, and creating original artworks. Students communicate their thoughts and ideas with innovation and creativity.

ART IV
Grade: 11-12 Credits: 1 Prerequisites: Art III
This course is designed primarily for the advanced student who has a sincere interest in the study of art. Art IV enables students to gain a better understanding of his/her creative development through trial and error experiments. Students will learn to incorporate their individual drawing styles, aesthetic viewpoints, elements and principles of compositional design and explore a variety of media and techniques to create visually dynamic compositions.

TEATRE I
Grade: 9-12 Credits: 1 Prerequisites: None
Through the foundations: inquiry and understanding strand, students develop a perception of self, human relationships, and the world using elements of drama and conventions of theatre. Through the creative expression strand, students communicate in a dramatic form, engage in artistic thinking, build positive self-concepts, relate interpersonally and integrate knowledge with other content areas in a relevant manner. Through the historical and cultural relevance strand, students increase their understanding of heritage and traditions in theatre and the diversity of world cultures as expressed in theatre. Through the critical evaluation and response strand, students engage in inquiry and dialogue, accept constructive criticism, revise personal views to promote creative and critical thinking, and develop the ability to appreciate and evaluate live theatre.

Theatre II Grade 10-12 Credits 1 Prerequisite: Theatre I
Students explore further into acting concepts and skills; Theatre production concepts and skills; and aesthetic growth through appreciation of theatrical events. Students perform various dramatic contests, events, and read and discuss plays.

TECHNOLOGY

PRINCIPLES OF INFORMATION TECHNOLOGY
Grade: 9-12 Credits: 1 Prerequisites: NONE
This course will enable students to develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment. This course is designed to be an introduction to a wide variety of technology subjects, such as: Career Skills, Word Processing, Spreadsheets, Databases, and Professional Presentations.

PRINCIPLES OF ARTS, AUDIO/VISUAL TECHNOLOGY, & COMMUNICATIONS
Grade: 9 Credits: 1 Prerequisites: NONE
Careers in the Arts, Audio/Video Technology, and Communications career cluster require, in addition to creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.
Graphic Design & Illustration I
Grade: 10-12 Credits: 1 Prerequisites: Pr A/V Tech
Graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design. Students will apply journalistic ethics and standards. Students accepted into the course will assume the responsibilities of reporting, photography, layout, advertising, and producing the school yearbook.

Graphic Design & Illustration II
Grade: 11-12 Credits: 1 Prerequisites: Graphic Design I
Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an advanced understanding of the industry with a focus on mastery of content knowledge and skills. Students accepted into the course will assume the responsibilities of leading the yearbook student-staff in reporting, photography, layout, advertising, and producing the school yearbook.

INTRODUCTION TO CULINARY ARTS
Grade: 9-10 Credits: 1 Prerequisites: Pr Hospitality
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. Introduction to Culinary Arts will provide insight into food production skills, various levels of industry management, and hospitality skills. This is an entry level course for students interested in pursuing a career in the food service industry.

CULINARY ARTS
Grade: 10-12 Credits: 2 Prerequisites: Intro Culinary
Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. This course is offered as a double-blocked class period.

ADVANCED CULINARY ARTS
Grade: 10-12 Credits: 2 Prerequisites: Culinary Arts
Advanced Culinary Arts 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. This course is offered as a double-blocked class period.

PRINCIPLES OF EDUCATION & TRAINING
Grade: 9-10 Credits: 1 Prerequisites: None
This course is designed to introduce learners to the various careers available within the education and training career cluster. Students use self-knowledge and educational and career information to analyze various careers within the education and training career cluster. Students will also gain an understanding of the basic knowledge and skills essential to careers within the education and training career cluster. Students will develop a graduation plan that leads to a specific career choice in the student’s interest area.

HUMAN GROWTH & DEVELOPMENT
Grade: 10-12 Credits: 1 Prerequisites: Pr of Education
This course is an examination of human development across the lifespan with emphasis upon 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.

Cross-Age Tutoring
Grade: 9-12 Credits: 1 Prerequisites: None
The course offers students an opportunity to improve life skills and academic skills. The student tutors meet their tutees four times a week to teach them basic concepts. Students are placed as tutors of elementary students, enabling them to make a difference in their own lives.

INSTRUCTIONAL PRACTICES IN EDUCATION
Grade: 11-12 Credits: 2 Prerequisites: Hum.Growth
This course is a field-based internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators or trainers in direct instructional roles with elementary school, middle school, and high school aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel.

PRACTICUM IN EDUCATION & TRAINING
Grade: 11-12 Credits: 2 Prerequisites: Hum.Growth
Practicum in Education and Training is a field-based internship that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood education 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 complete other responsibilities of classroom teachers, trainers, paraprofessionals, or other educational personnel.

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Health Science
Principles of Health Science
Grade: 9-12 Credits: 1 Prerequisites: NONE
This course provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the healthcare industry. The health science industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students will identify the employment opportunities, technology, and safety requirements of each system. Students are expected to apply the knowledge and skills necessary to pursue a health science career through further education and employment.

HEALTH SCIENCE THEORY
Grade: 10-12 Credits: 1 Prerequisites: Prin Hlth Sci; Biology
The Health Science Theory course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development.

PRACTICUM IN HEALTH SCIENCE
Grade: 12 Credits: 2 Prerequisites: Pr Hlth Sci, Bio, Hlth Sci Theory
The Practicum is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Students will acquire the classroom, laboratory, and clinical experience necessary to fulfill the requirements needed to take the certification exam to become a certified nurse’s assistant. This course is offered as a double-blocked class period. See the school nurse for details.

Endorsements
Arts & Humanities Endorsement
- Art
- Spanish
- Theatre

Public Services Endorsement
- Health Science
- Education & Training

STEM Endorsement
- Science
- Math

Business & Industry Endorsement
- Agricultural Mechanics
- Animal Science
- Graphic Design
- Culinary Arts

Multidisciplinary Studies Endorsement

DUAL CREDIT COURSES
Dual Credit courses allow students to earn college credit while in high school. These courses fulfill high school course requirements, appear on the high school transcript and are used in calculating grade point averages. These courses are taught 100% online by San Antonio College faculty. Students must maintain a “C” or better average. Students in 9th grade are limited to ONE dual credit course in the SPRING semester only. Students in 10th and 11th grade may take TWO dual credit courses each semester. Students in 12th grade may take TWO dual credit courses in the FALL and THREE in the SPRING. Please see the counselor for a list of available dual credit courses
Students must:
- Apply to SAN ANTONIO COLLEGE in the Alamo Colleges system
- Take and submit qualifying entrance scores to the college * TSI Scores *
- Present the required documents by the advertised deadline

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