

Buna High School



Course Catalog 2021-2022

BUNA HIGH SCHOOL COURSE CATALOG

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All programs are subject to change pending course enrollment, future curriculum alignment, and final administrative approval. These requirements may also change pending decisions by the State Board of Education and the Texas Education Agency.

Courses presented in this catalog are those offered for the 2021-2022 school year. Courses may be eliminated due to lack of student requests, conflicts with other courses in the master schedule and/or staffing concerns.

It is the responsibility of the student, not that of school personnel, to ensure that all requirements for graduation are met.

LANGUAGE ARTS

ENGLISH

English I

Prerequisite: None

Required Course

English I shall include concepts and skills in writing, language, literature and reading. Grammar is applied in studying language and writing mechanics with emphasis on compositions, such as essays, narratives, and expository writing assignments. The literature will include short stories, plays, essays, and novels. Technology skills will be incorporated.

Grade Level: 9

Credit: 1

English I –Honors

Prerequisite: None

Honors Criteria

This course has a more rigorous academic approach. It is designed to meet the needs of students academically capable and interested in working to their fullest potential. Students are encouraged to think, research, and write independently and creatively. Students will be required to read at least twelve major works combined with writing assignments of various formats. Technology skills will be incorporated.

Grade Level: 9

Credit: 1

GPA: Advanced

English II

Prerequisite: English I or Honors English I

Required Course

English II combines the study of world literature and written composition. Several literary genres are introduced to show how ideas and experiences find expression in various ways. Frequent and regular writing assignments further develop skills introduced in English I and the thesis approach is applied to longer papers. The focus is on persuasive essays as well as more in depth research assignments.

Grade Level: 10

Credit: 1

***English II –Honors**

Prerequisite: English I or Honors English I

Honors Criteria

Honors English II is designed to offer further experience in literature, composition, and language. Students will participate in an in-depth study of world literature. Frequent and regular writing assignments further develop skills introduced in English I and the thesis approach is applied to longer papers. Skills need to excel on the SAT exam and the Advanced Placement exams will be emphasized.

Grade Level: 10

Credit: 1

GPA: Advanced

English III

Prerequisite: English II or Honors English II

Required Course

English III includes concepts and skills in writing, language, literature and reading, along with a focus in literary analysis. Frequent writing assignments further develop skills taught in previous courses and the thesis approach is applied to a research paper and other writings. Speaking skills are also enhanced by participation in discussions and presentations. Students read extensively in multiple genres from American literature, discussing literary elements and interpreting possible influences from historical contexts.

Grade Level: 11

Credit: 1

***English III Honors (English Language & Composition)**

Prerequisite: English II or Honors English II

Honors Criteria

This course continues to emphasize composition skills through regular and frequent writing assignments. The thesis approach is applied to long papers and a research paper. Selections from American literature are

Grade Level: 11

Credit: 1

GPA: Advanced

studied in depth through interpretation, analysis, comparison, and literary criticism. Students complete a summer assignment and read a minimum of fifteen major works throughout the year.

English IV

Prerequisite: English III or Honors English III

Required Course

English IV includes concepts and skills in writing, language, literature and reading. This course combines instruction in composition with the study of British literature. Language and writing skills are enhanced through regular and frequent writing assignments.

Grade Level: 12

Credit: 1

*** English IV Honors (English Literature & Composition)**

Prerequisite: English III or Honors English III

Honors Criteria

The English IV-Honors class teaches skills in analyzing the rhetoric of prose passages and asks students to demonstrate their skills in composition by writing essays in various rhetorical modes. The class teaches students to read selected poems and passages analytically and to write critical or analytical essays based on given critical statements, poems, and prose passages that are one of the following: narrative, expository, or persuasive.

Grade Level: 12

Credit: 1

GPA: Advanced

English Remediation (STAAR EOC)

Admin. Recommendation

This course is designed to assist students in expected English STAAR competencies.

Grade Level: 9-12

Credit: .5-1

Texas College Bridge English

Texas College Bridge is a user-friendly platform that provides individualized support to help 11th and 12th grade students strengthen their math and English skills prior to enrolling in college. Students receive additional college support to help them complete college transition milestones.

Grade Level: 11-12

Credit: 1

Professional Communications (Speech)

Prerequisite: None

Required Course

Speech is a one-semester course that affords a general base of communication competencies and skills. Areas of study include: interpersonal communication, the art of listening, speech presentation, debate, radio, television, oral interpretation, and theater.

Grade Level: 9-12

Credit: .5

FOREIGN LANGUAGE

Spanish I

Prerequisite: None

Required

The Spanish I course introduces the student to the Spanish culture and language as well as provide a basic understanding of Hispanic life and customs. Students will learn pronunciation rules and basic vocabulary necessary for daily living as well as specialized vocabulary associated with various occupations. The course also includes geography of the Hispanic world. If this course is successfully completed in middle school, high school credit is granted.

Grade Level: 9-11

Credit: 1

Spanish II

Prerequisite: Spanish I

Required

Level II Spanish is a continuation of Spanish I. This course continues to teach an expanded vocabulary for daily living, and also includes geography, customs and culture of the Hispanic world.

Grade Level: 10-12

Credit: 1

***Spanish III**

Grade Level: 11 - 12

Prerequisite: Spanish I, Spanish II

Credit: 1

GPA: Advanced

Level III Spanish is designed to target language proficiency through hands on activities of normal daily situations. The oral proficiency objectives are: The use of social conventions; communication about ideas, feelings, and attitudes; acquisition of information, and negotiation of changes in others' thoughts and actions.

***Spanish IV**

Prerequisite: Spanish I, Spanish II, Spanish III

Grade Level: 12

Credit: 1

GPA: Advanced

The curriculum of this course is designed to meet the needs of students who are interested in learning to communicate in a world language at an advanced level. Additionally, students will be exposed to the cultural similarities and differences as they relate to Spanish-speaking countries. The class focuses on four content areas: speaking, listening, reading, and writing. Students will acquire a working knowledge of thematic vocabulary and advanced grammatical structures to enhance their ability to communicate in all four content areas of a second language.

Special Topics in Language and Culture

Prerequisite: Spanish I and Committee Recommendation

Grade Level: 10-12

Credit: 1

In the Special Topics in Language and Culture course students demonstrate novice level communication skills acquired in a LOTE level I course, develop a greater understanding of other cultures, make connections to other disciplines, draw comparisons between languages and cultures, and effectively engage in global communities.

MATHEMATICS

Math Lab (Taken concurrently with Algebra 1)

Admin. Recommendation

Grade Level: 9

Credit: 1

This course is intended to assist underprepared mathematics students. The basic understandings will stimulate students to think about their approach to mathematical learning.

Algebra I

Prerequisite: None

Grade Level: 9-10

Credit: 1

Required Course

Algebra I includes operations with real numbers, solving linear equations and inequalities in one or two variables, operations with polynomials, and factoring polynomials, as well as working with rational expressions, and solving and graphing quadratic equations.

***Algebra I – Honors**

Prerequisite: None

Grade Level: 9-10

Credit: 1

Honors Criteria

GPA: Advanced

Algebra I Honors is an in depth study of radicals and their operations, factoring polynomials, and solving and graphing quadratic equations.

Geometry

Prerequisite: Algebra I

Grade Level: 9-12

Credit: 1

Required Course

Geometry is a systematic development of plane geometry from the essential unified terms, postulates, and theorems as stated in the text. Only plane and solid, metric and non-metric concepts are developed having transitive property as the format of proofs. The course involves developing deductive thinking using many laws to develop argumentative proofs. Specific topics include parallel lines, planes, and developing a formal understanding of proofs as related to diagrams.

***Geometry - Honors**

Grade Level: 9-12

Prerequisite: Algebra I or Honors Algebra I
Honors Criteria/Rubric
Geometry is the study of points, lines, and planes and the relationships of plane figures. Properties of angles, triangles, and quadrilaterals are examined and used extensively. Finding the volume and surface area of three dimensional figures is included. Emphasis is placed on logical or inductive reasoning.

Credit: 1

GPA: Advanced

Algebra II

Prerequisite: Algebra I, Geometry

Algebra II is designed for students showing an advanced aptitude toward mathematics. The content of this course includes topics related to linear equations and inequalities, quadratic systems, polynomial functions, conics, logarithms, rational expressions and functions.

Grade Level: 10-12

Credit: 1

***Algebra II - Pre- AP**

Prerequisite: Algebra I and Geometry

Honors Criteria

Algebra II Honors extends the Algebra II curriculum by providing opportunities to solve algebraic problems on a higher level. The main emphasis will be on functional relationships and problem solving in real life situations. This course should prepare students to take Pre-Calculus the following year.

Grade Level: 10-12

Credit: 1

GPA: Advanced

Pre-Calculus

Prerequisite: Algebra II and Geometry

Students will study the basic concepts of trigonometry, analysis and analytical geometry.

Grade Level: 11-12

Credit: 1

***Pre-Calculus - Pre-AP**

Prerequisite: Algebra II and Geometry

Honors Criteria

In this course graphing functions (polynomial, rational, exponential, logarithmic, and functions involving radicals) are taught. Extensive use of the graphing calculator is a part of this course.

Grade Level: 11-12

Credit: 1

GPA: Advanced

***Independent Study in Math**

Prerequisite: Pre-Calculus

Honors Criteria

Independent Study in Math focuses on calculus concepts and skills associated with the limit of a function; the derivative and application of derivatives; integration and techniques of integration; along with application of integrals.

Grade Level: 12

Credit: 1

GPA: Advanced

Algebraic Reasoning

Prerequisite: Algebra I

Algebraic Reasoning will broaden student knowledge of functions and relationships, including linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value, and logarithmic functions.

Grade Level: 11-12

Credit: 1

Texas College Bridge Math

Texas College Bridge is a user-friendly platform that provides individualized support to help 11th and 12th grade students strengthen their math and English skills prior to enrolling in college. Students receive additional college support to help them complete college transition milestones.

Grade Level: 11-12

Credit: 1

SCIENCE

Biology

Prerequisite: None
Required

Grade Level: 9
Credit: 1

Biology is an introduction survey course of the plant and animal kingdoms, anatomy and physiology, ecology, and principles of heredity. Laboratory work involving dissection and identification of representative animals and plants are included in the course.

***Biology – Honors**

Prerequisite: None
Honors Criteria

Grade Level: 9
Credit: 1
GPA: Advanced

This is an intensive course for above-average, highly motivated students, emphasizing a molecular approach to the study of biology themes which include: biochemistry, cells, heredity, molecular biology, evolution, plants and animals.

IPC (Integrated Physics and Chemistry)

Prerequisite: Biology

Grade Level 10
Credit: 1

This course integrates the study of chemistry and physics, and covers topics such as motion, energy, waves, and the study of matter and the changes it undergoes.

Chemistry

Prerequisite: Algebra I, Biology

Grade Level: 10-11
Credit: 1

Chemistry includes the fundamental laws and theories of general chemistry and their applications that are necessary for further work in science and related subjects. It is a basic course concerned with matter and its changes, atomic structure, periodicity, physical states, solutions, and carbon compounds. The laboratory emphasizes basic chemical apparatus and experimenting procedure.

***Chemistry – Honors**

Prerequisite: Biology
Honors Criteria

Grade Level: 11-12
Credit: 1
GPA: Advanced

AP chemistry students will be given the opportunity to expand their understanding of chemical processes based on knowledge of chemical terms and reactions. They will learn to critically approach and experiment by learning all procedures to make chemicals and/or equipment, to decide on proper procedures, to successfully perform the experiments and to record and evaluate data. They will be able to mathematically predict chemical reactions and to test these predictions in laboratory procedures under various conditions.

Physics

Prerequisite: Algebra I, Biology, Chemistry

Grade Level: 11-12
Credit: 1

This is a first year, algebra-based introductory physics course dealing with a broad range of topics, including the study of motion, energy, waves, electromagnetism, atomic and simple modern physics. Even though we are mainly interested in the *concepts* behind certain physical phenomena, a good background in Algebra and Geometry is very helpful. Conceptual understanding through labs, hands-on activities, projects, and problem-solving exercises is emphasized.

***Physics - Honors**

Prerequisite: Algebra I, Biology, and Chemistry
Honors Criteria/Rubric

Grade Level: 11-12
Credit: 1
GPA: Advanced

This course covers topics in mechanics, electricity and magnetism, includes laboratory activities, problem solving, and independent projects, and is intended for college-bound students who are planning to major in science, engineering or medicine. Higher level mathematical skills are required.

***Anatomy and Physiology of Human Systems - Honors**

Prerequisite: Biology, Chemistry

Grade Level: 11-12
Credit: 1

Honors Criteria

GPA: Advanced

In this course, students conduct laboratory investigations and fieldwork, use scientific methods during investigations, and make informed decisions using critical thinking and problem solving. Topics will be presented through an integration of Biology, Chemistry, and Physics. Students will study the structures and functions of the human body and body systems and will investigate the body's responses to forces, maintenance of homeostasis, electrical interactions, transport systems, and energy systems.

Forensic Science

Grade Level: 11-12

Prerequisite: Biology, Chemistry or IPC

Credit: 1

Forensic Science is a course that uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes.

Earth and Space Science

Grade Level: 11 - 12

Prerequisite: Biology, Chemistry or IPC

Credit: 1

ESS is a capstone course designed to build on students' prior scientific and academic knowledge and skills to develop understanding of Earth's system in space and time.

SOCIAL STUDIES

World History

Grade Level: 10

Prerequisite: None

Credit: 1

Required Course

This course is a survey of world civilization from early classical civilization to today's societies and global problems. Note taking, book reports, and research topics are required.

***World History - Honors**

Grade Level: 10

Prerequisite: None

Credit: 1

Honors Criteria

GPA: Advanced

This course presents world history conceptually, emphasizing the social and cultural perspective in order to achieve an understanding of the multiplicity of world cultures. It incorporates a study of world history that investigates people, events, and cultures that have shaped or changed the way that people live on this planet.

United States History

Grade Level: 11

Prerequisite: World History

Credit: 1

Required Course

US history is a survey of American history from 1885 to the present. Requirements include a weekly current events study, book reports, note taking, and a willingness to take part in group activities.

***United States History - Honors**

Grade Level: 11

Prerequisite: World History

Credit: 1

Honors Criteria

GPA: Advanced

Honors US history is a rigorous study of American history from Pre-Colonial times to the present. The course prepares students for college level history including research and computer-aided study.

Economics

Grade Level: 12

Prerequisite: World History, US History

Credit: .5

Required Course

Economics is a survey of our economic system. Topics include business forms, monetary and fiscal policy, and the American consumer with emphasis on personal finance. Requirements include: note-taking, research project, and the study of American economic concepts.

***Economics - Honors**

Prerequisites: World History, US History
Honors Criteria

Grade Level: 12
Credit: .5
GPA: Advanced

Honors economics is a one semester college text based course using college testing format of multiple choice and essay questions. A research project is required as well as independent and computer-aided study.

Government

Prerequisites: World History, US History
Required Course

Grade Level: 12
Credit: .5

This general course in American Government assists students in preparation for citizenship responsibilities in our democratic society. Included in this course is the study of voting, court systems and procedures, as well as comparative political systems.

***Government - Honors**

Prerequisite: World History, US History
Honors Criteria

Grade Level: 12
Credit: .5
GPA: Advanced

Honors government is a one semester college text based course using college testing format of multiple choice and essay questions. A research project is required as well as independent and computer-aided study.

Personal Financial Literacy

Prerequisite: None

Grade Level: 10-12
Credit: .5

Personal Financial Literacy is designed to be an interactive and research-based course. The course will teach students to apply critical-thinking and problem-solving skills to analyze decisions involving earning and spending, saving and investing, credit and borrowing, insuring and protecting, and college and postsecondary education and training.

FINE ARTS

MUSIC

Band

Prerequisite: Audition, Band Director Approval

Grade Level: 9-12
Credit: 1

The concert and marching band is designed to challenge those students with high musical standards. The band performs at concerts, marches at football games and in parades, and competes in UIL activities. Each semester of marching band may be substituted for 1/2 physical education credit.

Instrumental

Prerequisite: Enrollment in band, Band Director Approval

Grade Level: 9-12
Credit: 1

This course allows time to practice existing assignments in band such as all region music, solo and ensemble music, memorization of football music, and practicing concert contest music, and is recommended for all concert and marching band students.

Choir

Prerequisite: None

Grade Level: 9-12
Credit: 1

Choir is a general choral music class that includes music theory, music history and literature.

ART

Art I

Prerequisite: None

Grade Level: 9-12

Credit: 1

Art I is an introduction to the art elements and design principles through the use of basic art mediums. Art I also includes an introduction to art history and art appreciation.

Art II

Prerequisite: Art I

Grade Level: 10-12

Credit: 1

Teacher Recommendation

Art II contains extended projects using more involved art technique with an emphasis on personal style.

Art history and appreciation are taught in relationship to student projects.

Art III

Prerequisite: Art II

Grade Level: 11-12

Credit: 1

Teacher Recommendation

Art III is an in depth course structured for the serious art student. Advanced drawing, printmaking, painting, and design in 2 and 3-D are included. Art history and appreciation are taught in relationship to students' projects.

Art IV

Prerequisite: Art III

Grade Level: 12

Credit: 1

Teacher Recommendation

Art IV enables the serious art student to develop personal technique and appreciation, while reinforcing concepts of previous art training. Scholarship and advanced placement portfolios are developed for college and art appreciation. Students also study art history extensively.

PHYSICAL EDUCATION

Students must have one credit of P.E. or Athletics or two first semesters of marching band to meet graduation requirements.

Physical Education

Prerequisite: None

Grade Level: 9-12

Credit: 1

Physical Education is designed to teach sustainable fitness through core strength and conditioning, regardless of fitness level, body composition, or athletic ability.

Girl's Freshman Athletics

Grade Level: 9

Girl's Varsity Athletics

Grade Level: 10-12

Boy's Freshman Athletics

Grade Level: 9

Boy's Varsity Athletics

Grade Level: 10-12

Prerequisite: Coach Recommendation

Credit: 1

Athletics is a voluntary program in conjunction with UIL. A student chooses to participate in a sport and is accepted into the athletic period by the head coach or athletic director. Students must meet the requirements and expectations of the coaches involved. Grade assessment is subjective and based on observation of attitude, behavior, and work ethic. Students that quit a sport in season will be given the lowest passing grade of 70. Students that display serious behavior/attitude problems while representing their school may be given a grade lower than passing.

Lifetime Nutrition and Wellness

Prerequisite: None

Grade Level: 9-12

Required Course

Credit: .5

Lifetime Nutrition and Wellness is a lab course that allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services, and health sciences.

CAREER & TECHNOLOGY

AGRICULTURE, FOOD & NATURAL RESOURCES

ANIMAL SCIENCE

Principles of Agriculture, Food, and Natural Resources

Prerequisite: None

Grade Level: 9-12

Credit: 1

To be prepared for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations in the field of agriculture.

Livestock Production

Prerequisite: Principles of Agriculture

Grade Level: 10-12

Credit: 1

Animal species to be addressed in this course may include, but are not limited to, beef cattle, dairy cattle, swine, sheep, goats, and poultry.

Small Animal Management (1st Semester)

Prerequisite: Principles of Agriculture

Grade Level: 10-12

Credit: .5

Suggested small animals which may be included in the course of study include, but are not limited to, small mammals, amphibians, reptiles, avian, dogs, and cats.

Equine Science (2nd Semester)

Prerequisite: Principles of Agriculture

Grade Level: 10-12

Credit: .5

Students will learn to reinforce, apply, and transfer their knowledge and skills about a variety of horses, donkeys, and mules.

Veterinary Medical Application

Prerequisite: Principles of Agriculture, Lower level animal science

Grade Level: 12

Credit: 1

Veterinary Medical Applications covers topics relating to veterinary practices, including practices for large and small animal species.

Agricultural Leadership, Research, and Communications (Innovative CTE)

Prerequisite: Principles of Agriculture

Grade Level: 10-12

Credit: 1

This course will focus on challenging AFNR students to use higher level thinking skills, develop leadership abilities, employ standard research principles, and communicate agricultural positions effectively with all stakeholders.

Advanced Animal Science

Prerequisite: Principles of Agriculture, Lower level animal science

Grade Level: 12

Credit: 1

This course will allow students to attain academic skills and knowledge in advanced animal science, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards.

PLANT SCIENCE

Floral Design

Prerequisite: None; (\$40 fee \$20/semester)

Grade Level: 9-12

Credit: 1

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.

Advanced Floral Design

Prerequisite: Principles of Agriculture, Floral Design (\$40 fee \$20/semester)

Grade Level: 10-12

Credit: 1

Students build on knowledge from the floral design course and are introduced to more advanced floral design concepts, with an emphasis on specialty designs and specific occasion planning.

Practicum in AFNR (2 Period Floral)

Prerequisite: Principles of Agriculture, Floral Design (\$40 fee \$20/semester)

Grade Level: 11-12

Credit: 2

The practicum is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories.

MANUFACTURING

WELDING

Introduction to Welding

Prerequisite: Principles of Agriculture, Food, and Natural Resources

Grade Level: 9-12

Credit: 1

This course will introduce welding technology with an emphasis on basic welding laboratory principles and operating procedures.

Welding I

Prerequisite: Intro. to Welding

Grade Level: 10-12

Credit: 2

Welding I provides the knowledge, skills, and technologies required for employment in metal technology systems. Students will develop knowledge and skills related to this system and apply them to personal career development.

Welding II (\$50 Fee)

Prerequisites: Introduction to Welding, Welding I

Grade Level: 11 - 12

Credits: 2-3

Welding II builds on the knowledge and skills developed in Welding I. Students will develop advanced welding concepts and skills as related to personal and career development. Students will integrate academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

Practicum in Manufacturing (\$50 Fee)

Prerequisite: Welding II

Grade Level: 12

Credits: 2-3

The Practicum in Manufacturing course 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.

ARCHITECTURE & CONSTRUCTION

ARCHITECTURAL DESIGN

Principles of Architecture

Prerequisite: None

This course covers basic fundamentals in lettering, instrument usage and various drafting practices found in industry. It includes manual drafting and the use of drafting equipment. This course prepares students for jobs in drafting-related fields.

Grade Level: 10-12

Grade Level: 9-12

Credit: 1

Computer Aided Drafting for Architecture

Prerequisite: Princ. of Architectural Design

Introduction to Computer Aided Design is an introduction to reading and interpreting working drawings for fabrication processes and associated trades. Students will learn sketching techniques to create pictorial and multiple-view drawings. Students will interpret working drawings including dimensions, notes, symbols, sections and auxiliary views.

Grade Level: 10-12

Credit: 1

Architectural Design I

Prerequisite: Computer Aided Drafting for Architecture

Students enrolled in this course will demonstrate knowledge and skills of the process of design as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students will transfer advanced academic skills to component designs. Additionally, students explore career opportunities in engineering, technology, and drafting and what is required to gain and maintain employment in these areas.

Grade Level: 10-12

Credit: 1

Architectural Design II

Prerequisite: Algebra I, Geometry, Architectural Design I

In Advanced Architectural Design, students gain advanced knowledge and skills specific to those needed to enter a career in architecture and construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, and landscape architecture. Advanced Architectural design includes the advanced knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for commercial or residential architectural purposes.

Grade Level: 10-12

Credit: 2

TRANSPORTATION, DISTRIBUTION & LOGISTICS

AUTOMOTIVE

Automotive Basics

Prerequisite: 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.

Grade Level: 9 - 12

Credit: 1

Small Engine Technology 1

Prerequisite: Automotive Basics

This course includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. Transportation Technology includes applicable safety and environmental rules and regulations. Students will gain knowledge and skills in the repair, maintenance, and diagnosis of transportation systems.

Grade Level: 10 - 12

Credit: 1

Automotive Technology I

Prerequisites: Principles of Transportation, Small Engine Tech.

Automotive services include knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. In Automotive Technology, students gain knowledge and skills in the repair and maintenance of vehicle systems.

Grade Level: 10 - 12

Credits: 2

Automotive Technology II

Prerequisites: Auto I

Automotive services include knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. In Advanced Automotive Technology, students gain advanced knowledge and skills in the repair and maintenance of vehicle systems.

Grade Level: 10 - 12

Credits: 2

SCIENCE TECHNOLOGY, ENGINEERING & MATHEMATICS

ENGINEERING

BIM (Business Information Management)

Required Course

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.

Grade Level:9

Credit: 1

AP Computer Science I & II

Prerequisite: BIM

Teacher Recommendation

Students will learn common algorithms and will be able to analyze algorithm efficiency, ease of implementation, and maintenance in terms of execution speed and computer memory requirements. Students will be able to solve significant problems related to a variety of applications by designing and implementing appropriate data structures which allow efficient storage and manipulation of data.

Grade Level: 10-12

Credit: 1

Robotics 1

Teacher Recommendation

Students will 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.

Grade Level: 9-12

Credit: 1

Robotics 2

Prerequisite: Robotics I

Students will 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.

Grade Level: 10-12

Credit: 1

Engineering Design and Presentation (Robotics 3)

Prerequisite: Robotics 2, Algebra 1

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.

Grade Level: 10-12

Credit: 1

Engineering Design and Problem Solving (Robotics 4)

Prerequisite: Engineering Design and Presentation, Alg. 1, Geometry

This course will utilize the creative process of solving problems by identifying needs and then devising solution. The solution may be a product, technique, structure, or process depending on the problem. playable characters, items, maps, and chests and eventually applying customizations by altering and enhancing the core game code.

Grade Level: 12

Credit: 1

ARTS, A/V TECHNOLOGY & COMMUNICATIONS

DIGITAL COMMUNICATIONS

Principles of Arts, A/V Tech. & Communications

Prerequisite: None

Grade Level: 9-12

Credit: 1

Careers in the Arts, Audio/Video Technology, and Communications Career Cluster require a 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.

Audio/Video Production (Broadcast Journalism)

Prerequisite: Professional Communication

Grade Level: 10-12

Credit: 1

Students will learn the following: video editing, using video software, interviewing skills, digital video recording (video camera), video production, leadership skills, and journalism skills. BHSN News is news from a student's point of view – news about our school, our community and the nation. Students do not have to be on camera. There is a lot of work behind the scenes – from pre-production to the final show. This includes writing the script, running the camera, and editing the video using computer software. Students should be self-motivated and enthusiastic about preparing weekly news programs. Students will also be involved with producing videos for the community.

Advanced Audio/Video Production/Practicum (Broadcast Journalism)

Prerequisite: A/V Production

Grade Level: 11-12

Credit: 2

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing advanced 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 pre-production, production, and post-production activities. This course may be implemented in an advanced audio format or an advanced format, including both audio and video.

Printing and Imaging Technology I

Grade Level: 10-12

Credit: 1

This course will teach students all aspects of the printing industry including prepress, press, and finishing and bindery operations with a focus on digital prepress and publishing.

Printing and Imaging Technology II

Grade Level: 10-12

Credit: 1

Careers in printing span all aspects of the industry, including prepress, press, and finishing and bindery operations. In addition to developing advanced 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 printing industry with a focus on digital prepress and desktop digital publishing.

Graphic Design and Illustration (Yearbook)

Prerequisite: Teacher Approval

Grade Level: 10-12

Credit: 1

This course teaches publication skills through the production of the school yearbook. From marketing plans and activities to provide the necessary funds, to creative writing, to page layout and to the final desktop productions, students learn all aspects of publication.

DESIGN & MULTIMEDIA ARTS

Principles of Arts, A/V Tech. & Communications

Prerequisite: None

Grade Level: 9-12

Credit: 1

Careers in the Arts, Audio/Video Technology, and Communications Career Cluster require a 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.

Video Game Design

Prerequisite: Principles of Arts, A/V Tech. & Comm.

Grade Level: 10-12

Credit: 1

Video Game Programming expands on the foundation created in Video Game Design through programming languages such as: C#, XNA game studio, Java, and Android App. In this course, students investigate the inner workings of a fully functional role-playing game (RPG).

Video Game Programming

Prerequisite: Principles of Arts, A/V Tech. & Comm.

Grade Level: 10-12

Credit: 1

Video Game Programming expands on the foundation created in Video Game Design through programming languages such as: C#, XNA game studio, Java, and Android App. In this course, students investigate the inner workings of a fully functional role-playing game (RPG).

Advanced Video Game Programming

Prerequisite: Video Game Programming

Grade Level: 10-12

Credit: 1

Advanced Video Game Programming students will be introduced to mobile application design and programming using Java and Eclipse for Android devices. Time will be spent learning basic Java programming and working with Android Studio to develop real working apps.

HEALTH SCIENCE

NURSING SCIENCE

Medical Terminology

This course is designed to introduce 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.

Grade Level: 10-12

Credit: 1

Principles of Health Science

The Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. Students can earn their Certified Nurse Assistant certification (CNA) in the following course.

Grade Level: 11

Credit: 1

Health Science Theory & Clinical

Prerequisite: Principles of Health Science, Biology

Grade Level: 12

Credits: 2

The Health Science course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will have hands-on experiences for continued knowledge and skill development. The course may be taught by different methodologies such as clinical rotation and

career preparation learning.

HOSPITALITY & TOURISM

Principles of Hospitality and Tourism

Prerequisite: None

Grade Level: 9-12

Credit: 1

This course introduces students to an industry that encompasses lodging, travel and tourism, recreation, amusements, attractions, and food/beverage operations. Students will focus on communication, time management, and customer service that meet industry standards.

Introduction to Culinary Arts

Prerequisite: Recommended Principles of Hospitality and Tourism

Grade Level: 10-12

Credit: 1

This course will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations.

Culinary Arts

Prerequisite: Recommended Principles of Hospitality and Introduction to Culinary Arts

Grade Level: 10-12

Credit: 2

This course begins with the fundamentals and principles of the art of cooking and the science of baking and includes managements and production skills and techniques.

Advanced Culinary Arts

Prerequisite: Recommended Culinary Arts

Grade Level: 12

Credit: 2

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.

LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY

Principles of Law, Public Safety, Corrections, and Security

Prerequisite: None

Grade Level: 9-12

Credit: 1

This course introduces students to professions in law enforcement, protective services, corrections, firefighting, and emergency management services.

Law Enforcement I

Prerequisite: None

Grade Level: 9-12

Credit: 1

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 terminology and the classification and elements of crime.

CAREER PREPARATION

Student Leadership

Grade Level: 11-12

Requirements: Student Council Membership

Credit: 1

This course provides an opportunity to study, practice, and develop group and individual leadership and organizational skills. These skills are applied by dealing with peers, school administration, and the community through hands on leadership, project planning and implementation.

Work Program (Career Prep)

Grade Level: 11-12

Prerequisites: Must be 16 yrs. of age & have approved job

Credits: 3

Student contract required

The work program will provide students with real world, work-based experience and includes classroom instruction which will stress the areas of: work ethics, job application, interviewing skills, safety on the job, wages and salary, income tax, career goals, job projection, trends and work evaluation. Failure to maintain passing grades or an unapproved job will result in removal from the program.

BUNA HIGH SCHOOL
Lamar State College-Orange
DUAL CREDIT/ONLINE CLASSES

Students must meet the prerequisite requirements for each course.

<u>Course</u>	<u>Pre-requisite</u>
English 1301/1302	English I and II
British Literature	English I, II and III or 1301/1302
History 1301/1302	World History
Gov/Economics	U.S. History or History 1301/1302
College Algebra	Algebra II

Students must be accepted by LSC-O and meet their criteria. This includes appropriate test scores (SAT, ACT, TSI, or STAAR).

Students must have parent/guardian permission.

Students must have school approval (90 average).

It is recommended that students take no more than 2 dual credit courses per semester.

FALL SEMESTER

English 1301
 British Lit. 2322
 History 1301
 Government 2305
 Anatomy & Physiology (BIOL 2301)
 College Algebra (MATH 1314)

ELECTIVES

Principles of Accounting I (ACCT 2301)
 Intro. to Computing (COSCI301)
 Art Appreciation (ARTS1301)
 Introduction to Teaching (EDUC 1301)
 Psychology (PSYC 2301)
 Public Speaking (SPCH 1311)
 EMT Program

SPRING SEMESTER

English 1302
 British Lit. 2323
 History 1302
 Macroeconomics 2301
 Anatomy & Physiology (BIOL 2302)

Business Principles (BUSI 1301)
 Personal Finance (BUSI 1307)
 Music Appreciation (HUMA 1315)
 Nutrition & Diet Therapy (BIOL 1322)
 Sociology (SOCI 1301)

Pharmacy Tech Program