

Buna High School



Course Catalog
2017-2018

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 2017-2018 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 – Pre-AP

Prerequisite: None

Honors Criteria/Rubric

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 Pre-AP 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 – Pre-AP

Prerequisite: English I or Pre-AP English I

Honors Criteria/Rubric

Pre-AP 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 (English Language & Composition) - Advanced Placement**

Prerequisite: English II or Pre-AP English II
Honors Criteria/Rubric

Grade Level: 11
Credit: 1
GPA: Advanced

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 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. This course prepares students for the AP exam, which will be offered at the end of the year.

English IV

Prerequisite: English III or Pre-AP English III
Required Course

Grade Level: 12
Credit: 1

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.

*** English IV (English Literature & Composition) - Advanced Placement**

Prerequisite: English III or Pre-AP English III
Honors Criteria/Rubric

Grade Level: 12
Credit: 1
GPA: Advanced

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. Students may receive three or six hours of college credit upon completion of the AP exam. Students are responsible for test fees. Examinations will be given on the high school campus.

Professional Communications (Speech)

Prerequisite: None
Required Course

Grade Level: 9-12
Credit: .5

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.

FOREIGN LANGUAGE

Cultural Spanish

Prerequisite: None

This is an introductory course to the Spanish language and its culture.

*This course DOES NOT count as a foreign language credit. It is intended to help prepare students for Spanish I.

Grade Level: 9-10
Credit: 1

Spanish I

Prerequisite: None
Required

Grade Level: 9-11
Credit: 1

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.

Spanish II

Prerequisite: Spanish I
Required

Grade Level: 10-12
Credit: 1

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.

***Spanish III**

Prerequisite: Spanish I, Spanish II

Grade Level: 11 - 12

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

***STUDENTS MUST TAKE 4 MATH COURSES TO EARN AN ENDORSEMENT, WITH ONE OF THEM BEING ALG. II.**

Strategic Learning for High School Math (Innovative CTE course)

Grade Level: 9

Credit: 1

This course is intended to create strategic mathematical learners from 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 meets every day and 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/Rubric

GPA: Advanced

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

Geometry

Grade Level: 9-12

Prerequisite: Algebra I

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

Credit: 1

Honors Criteria/Rubric

GPA: Advanced

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.

Algebraic Reasoning

Grade Level: 11-12

Prerequisite: Algebra I

Credit: 1

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.

Algebra II

Grade Level: 10-12

Prerequisite: Algebra I, Geometry

Credit: 1

Required for Distinguished Level of Achievement 2017-2018

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.

***Algebra II – Pre- AP**

Grade Level: 10-12

Prerequisite: Algebra I and Geometry

Credit: 1

Honors Criteria/Rubric

GPA: Advanced

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.

Pre-Calculus

Grade Level: 11-12

Prerequisite: Algebra II and Geometry

Credit: 1

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

***Pre-Calculus – Pre-AP**

Grade Level: 11-12

Prerequisite: Algebra II and Geometry

Credit: 1

Honors Criteria/Rubric

GPA: Advanced

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.

***Calculus - Advanced Placement**

Grade Level: 12

Prerequisite: Pre-Calculus

Credit: 1

Honors Criteria/Rubric

GPA: Advanced

AP calculus includes 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.

Financial Mathematics

Prerequisite: Algebra I

Grade Level: 11

Credit: 1

Financial Mathematics is a course about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors.

SCIENCE

***STUDENTS MUST TAKE 4 SCIENCE COURSES TO EARN AN ENDORSEMENT.**

Biology

Prerequisite: None

Grade Level: 9

Credit: 1

Required

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

Grade Level: 9

Credit: 1

Honors Criteria/Rubric

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

Required

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

Grade Level: 11-12

Credit: 1

Honors Criteria/Rubric

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
Honors Criteria/Rubric

Grade Level: 11-12
Credit: 1
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

Prerequisite: Biology, Chemistry

Grade Level: 11-12
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

Prerequisite: 3 Science, 3 Math Courses

Grade Level: 12
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

Prerequisite: None
Required Course

Grade Level: 10
Credit: 1

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**

Prerequisite: None
Honors Criteria/Rubric

Grade Level: 10
Credit: 1
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

Prerequisite: World History
Required Course

Grade Level: 11
Credit: 1

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**

Prerequisite: World History

Honors Criteria/Rubric

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.

Grade Level: 11

Credit: 1

GPA: Advanced

Economics

Prerequisite: World History, US History

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.

Grade Level: 12

Credit: .5

***Economics - Honors**

Prerequisites: World History, US History

Honors Criteria/Rubric

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.

Grade Level: 12

Credit: .5

GPA: Advanced

Government

Prerequisites: World History, US History

Required Course

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.

Grade Level: 12

Credit: .5

***Government – Honors**

Prerequisite: World History, US History

Honors Criteria/Rubric

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.

Grade Level: 12

Credit: .5

GPA: Advanced

Personal Financial Literacy

Prerequisite: None

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.

Grade Level: 10-12

Credit: .5

FINE ARTS

MUSIC

Band

Prerequisite: Audition, Band Director Approval

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.

Grade Level: 9-12

Credit: 1

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 deals with physical fitness and lifetime physical activities. This course emphasizes the importance of a well-rounded program of physical fitness in everyday life. Some activities provided are running, basketball, dodge ball, softball, relays, and football.

Girl's Junior Varsity Athletics

Grade Level: 9-10

Girl's Varsity Athletics

Grade Level: 10-12

Boy's Junior Varsity Athletics

Grade Level: 9-10

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.

Health Education

Grade Level: 10-12

Prerequisite: None

Credit: .5

Required Course

Students will comprehend concepts related to health promotion and disease prevention; demonstrate the ability to access valid health information and health-promoting products and services; demonstrate the ability to practice health-enhancing behaviors and reduce health-related risks; analyze the influence of culture, media, technology, and other factors on health; demonstrate the ability to use interpersonal communication skills to enhance health; and demonstrate the ability to advocate for personal, family, and community health.

CAREER & TECHNOLOGY

AGRICULTURE

Principles of Agriculture, Food, and Natural Resources

Prerequisite: None

Grade Level: 9-10

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

Grade Level: 10-12

Prerequisite: Principles of Agriculture

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)

Grade Level: 10-12

Prerequisite: Principles of Agriculture

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)

Grade Level: 10-12

Prerequisite: Principles of Agriculture

Credit: .5

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

Advanced Animal Science

Grade Level: 12

Prerequisite: Principles of Agriculture. Lower level animal science

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.

Wildlife, Fisheries, and Ecology Management

Grade Level: 10-12

Prerequisite: Principles of Agriculture

Credit: 1

This course examines the management of game and non-game wildlife species, fish, and aquacrops and their ecological needs as related to current agricultural practices.

Range Ecology and Management

Grade Level: 10-12

Prerequisite: Principles of Agriculture

Credit: 1

This course is designed to develop students' understanding of rangeland ecosystems and sustainable forage production.

Forestry and Woodland Ecosystems

Grade Level: 10-12

Prerequisite: Principles of Agriculture

Credit: 1

This course examines current management practices for forestry and woodlands. Special emphasis is given to management as it relates to ecological requirements and how these practices impact the environment.

Floral Design

Grade Level: 9-12

Prerequisite: None; \$20 fee

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 Practicum (AFNR)

Grade Level: 11-12

Prerequisite: Principles of Agriculture, Floral Design;\$20 fee

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.

TRADE & INDUSTRIAL

WELDING

Introduction to Welding

Grade Level: 9-12

Prerequisite: Principles of Agriculture, Food, and Natural Resources

Credit: 1

Introduction to welding will provide an introduction to welding technology with an emphasis on basic welding laboratory principles and operating procedures.

Agricultural Mechanics and Metal Technology

Grade Level: 10-12

Prerequisite: Principles of Agriculture, Food, and Natural Resources

Credit: 1

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.

Welding I (\$50 Fee)

Grade Level: 10 - 12

Prerequisites: Introduction to Welding
Agricultural Mechanics and Metal Technology

Credits: 1-2

Welding provides the knowledge, skills, and technologies required for employment in metal technology systems. Students develop knowledge and skills related to this system in order to apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer their knowledge and skills to a variety of settings and problems.

Welding II (\$50 Fee)

Grade Level: 11 - 12

Prerequisite: Welding I

Credits: 2-3

Advanced Welding builds on knowledge and skills developed in Welding. Students will develop advanced welding concepts and skills as they relate to personal and career development. This course integrates 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.

ARCHITECTURE AND CONSTRUCTION

Principles of Architecture

Grade Level: 9-10

Prerequisite: None

Credit: 1

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.

Architectural Design I

Grade Level: 10-12

Prerequisite: Principles of Architecture and Construction

Credit: 1

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.

Architectural Design II

Prerequisite: Algebra I, Geometry, Architectural Design I

Grade Level: 10-12

Credit: 2

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.

Practicum in Architectural Design

Prerequisite: Algebra I, Geometry, Architectural Design II

Grade Level: 12

Credit: 2

Practicum in Architectural Design is an occupationally specific course designed to provide technical instruction in architectural design. Safety and career opportunities are included in addition to work ethics and architectural design study.

TRANSPORTATION

Principles of Transportation

Grade Level: 9 - 12

Prerequisite: None

Credit: 1

In Principles of Transportation, students gain knowledge and skills in the safe application, design,

production, and assessment of products, services, and systems. Students should apply knowledge and skills in the application, design, and production of technology as it relates to the transportation, distribution, and logistics industries.

Energy and Power of Transportation

Grade Level: 10 - 12

Prerequisite: Principles of Transportation

Credit: 1

Students will understand the interaction between various vehicle systems, the logistics used to move goods and services to consumers, and the components of transportation infrastructure. Performance requirements will include academic and technical skills. Students prepared to meet the expectations of employers in this industry must be able to interact and relate to others and understand the technologies used in order to provide products and services in a timely manner.

Automotive Technology I

Prerequisites: Principles of Transportation

Grade Level: 10 - 12

Auto I

Credits: 2

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.

Automotive Technology II

Grade Level: 10 - 12

Prerequisites: Auto I and Auto II

Credits: 2

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.

COMPUTER TECHNOLOGY/BUSINESS

BIM (Business Information Management)

Grade Level:9

Required Course

Credit: 1

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.

AP Computer Science I & II

Grade Level: 10-12

Prerequisite: BIM

Credit: 1

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.

Principles of Applied Engineering (Robotics1)

Grade Level: 9-12

Teacher Recommendation

Credit: 1

Principles of Applied Engineering provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships.

Engineering Design and Presentation I (Robotics2)

Grade Level: 9-12

Teacher Recommendation

Credit: 1

This course is a continuation of knowledge and skills learned in Principles of Applied Engineering. 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.

AC/DC Electronics (Robotics3)

Grade Level: 9-12

Teacher Recommendation

Credit: 1

This course focuses on the basic electricity principles of alternating current/direct current circuits. Students will demonstrate knowledge and applications of circuits, electronic measurement, and electronic implementation.

Robotics I (Robotics4)

Grade Level: 12

Teacher Recommendation

Credit: 1

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.

Money Matters

Grade Level: 9

Prerequisite: BIM

Credit: 1

Required Course

Students will investigate global economics with emphasis on the free enterprise system and its impact on consumers and businesses. Students apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to set long-term financial goals based on those options. Students will determine methods of achieving long-term financial goals through investment planning, tax planning, asset allocation, risk management, retirement planning, and estate planning.

Video Game Design I (Innovative CTE Course)

Prerequisite: BIM

Grade Level: 10-12

Credit: 1

The student will be provided the opportunity to design, program, and create a functional video game. This course will introduce basic programming language and skills that are essential to developing a video game. Topics covered are mathematics, physics, design, and computer programming.

Video Game Design II (Innovative CTE Course)

Prerequisite: Video Game Design I

Grade Level: 10-12

Credit: 1

Students will dive into the inner workings of a fully functional role-playing game (RPG) by customizing playable characters, items, maps, and chests and eventually applying customizations by altering and enhancing the core game code.

Teen Leadership (Innovative CTE Course)

Grade Level: 9-12

Prerequisite: None

Credit: 1

This course provides an opportunity to study, practice, and develop group and individual leadership and organizational skills. These skills include the structure of leadership, organization and managerial skills, citizenship, goal setting, group processes, and communication.

Networking

Grade Level: 10-12

Prerequisite: BIM, Teacher Recommendation

Credit: 1

Students will develop knowledge of the concepts and skills related to data networking technologies and practices in order to apply them to personal or career development.

COMMUNICATION AND MEDIA SYSTEMS

Graphic Design and Illustration (Yearbook)

Grade Level: 10-12

Prerequisite: Teacher Approval

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.

Audio/Video Production (Broadcast Journalism)

Grade Level: 10-12

Prerequisite: Teacher Approval

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) Grade Level: 10-12

Prerequisite: Teacher Approval

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.

HEALTH SCIENCE

Medical Terminology

Grade Level: 10-12

Prerequisite: BIM

Credit: 1

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.

Principles of Health Science

Grade Level: 11

Prerequisite: BIM

Credit: 1

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).

***Health Science Theory**

Grade Level: 12

Prerequisite: Principles of Health Science, Biology

Credits: 1

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.

***Health Science Clinical**

Grade Level: 12

Prerequisite: Principles of Health Science, Biology

Credits: 1

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.

*These courses must be taken together.

Health Informatics

Grade Level: 11-12

Prerequisite: BIM, Medical Terminology

Credit: 1

This course is designed to provide knowledge of one of the fastest growing areas in both academic and professional fields. Students will effectively design, develop, and use technologies such as electronic medical records, patient monitoring systems, and digital libraries, while managing the vast amount of data generated by these systems.

HOSPITALITY AND TOURISM

Principles of Hospitality and Tourism

Grade Level: 9-12

Prerequisite: None

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

Grade Level: 10-12

Prerequisite: Recommended Principles of Hospitality and Tourism

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

Grade Level: 10-12

Prerequisite: Recommended Principles of Hospitality and Tourism and
Introduction to Culinary Arts

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

Grade Level: 12

Prerequisite: Recommended Culinary Arts

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.

CAREER PREPARATION

Work Program—TICP Lab and OJT

Grade Level: 11-12

Prerequisites: Must be 16 yrs. of age & have approved job
Teacher recommendation by application
Student contract required

Credits: 3

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.

Cosmetology (Southeast Texas Career Institute-Silsbee)

Grade Level: 11-12

Prerequisite: Your own transportation: Payment required

Credits: 3

This course is a planned 1500 clock hour, two-year sequence of classroom and laboratory instruction, 1000 laboratory clock hours, plus 500 academic hours are awarded upon completion of the 1000 laboratory hours. Instruction is designed to provide job-specific training for entry-level employment in cosmetology careers.

This course meets the Texas Department of Licensing and Regulations Commission requirements for licensure upon passing the state exam.

BUNA HIGH SCHOOL
LAMAR STATE COLLEGE-ORANGE
DUAL CREDIT/ONLINE CLASSES

Students must meet the prerequisite requirements for each course.

English-	English I and II
History-	World History
Mathematics-	Algebra II

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

Students must have parent/guardian permission (signed contract).

Students must have school approval (Recommended 3.0 GPA).

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

See the counselor for more information.

FALL SEMESTER

English 1301
History 1301
Government 2301
College Algebra

SPRING SEMESTER

English 1302
History 1302
Macroeconomics 2301

*These courses are subject to change.