FUNCTIONAL ACADEMICS MATH
Grade Placement: 9-12
Prerequisite: ARD Committee Decision
Credit/GP: 1-2 / Modified Course #:
These courses provide math instruction to students at their assessed level. Students will develop skills in areas of Math that correspond (by scaffolding down to pre-requisite skills) to TEKS objectives for the mainstream math classes.
Functional Academics Algebra I
Functional Academics Geometry
Functional Academics Math
Functional Consumer Math

FUNCTIONAL ACADEMICS ENGLISH
Grade Placement: 9-12
Prerequisite: ARD Committee Decision
Credit/GP: 1-2 / Modified Course #:
These courses provide English language arts instruction to students at their assessed level. Students will develop skills in areas of English that correspond (by scaffolding down to pre-requisite skills) to TEKS objectives for the mainstream English classes.
Functional Academics English I
Functional Academics English II
Functional Academics English III
Functional English

FUNCTIONAL ACADEMICS SOCIAL STUDIES
Grade Placement: 9-12
Prerequisite: ARD Committee Decision
Credit/GP: 1 / Modified Course #:
These courses provide instruction in a variety of Social Studies areas to students at their assessed level. Students will develop skills in areas of social studies that correspond (by scaffolding down to pre-requisite skills) to TEKS objectives for the mainstream Social Studies classes.
Functional Academics World Geography
Functional Academics World History
Functional Academics US History

FUNCTIONAL ACADEMICS BIOLOGY
Grade Placement: 11
Prerequisite: ARD Committee Decision
Credit/GP: 1 / Modified Course #:
This course provides instruction in Biology. Students will work on their assessed level (by scaffolding down to pre-requisite skills.) Skills taught will reflect pre-requisite skills for the mainstream TEKS for Biology.

FUNCTIONAL LIVING
Grade Placement: 9-12
Prerequisite: ARD Committee Decision
Credit/GP: 1-2 / Standard Course #:
This course is designed to increase the functional independence of self-contained students. The course provides instruction in self care tasks and simple housekeeping tasks.

DAILY LIVING
Grade Placement: 9-12
Prerequisite: ARD Committee Decision
Credit/GP: 1-2 / Standard Course #:
This course provides individualized experience to integrate the domestic, recreation, leisure and school community domains. Students investigate, through activity-based sessions, a variety of activities associated with the daily living experience.

SEN SORY STIMULATION
Grade Placement: 9-12
Prerequisite: ARD Committee Decision
Credit/GP: 1-2 / Standard Course #:
This course provides exposure to a wide variety of auditory, visual, kinesthetic, and oral stimuli to increase responsiveness and develop communication for students who have significant physical and cognitive disabilities.

WORK EXPERIENCE
PRE-VOC I
Grade Placement: 9-12
Prerequisite: ARD Committee Decision
Credit/GP: 1-2 / Modified Course #:
This class is designed to teach basic office skills such as learning to use a shredder, collator, stapler, and hole punch for teachers at LHS with close supervision.

PRE-VOC II
Grade Placement: 10-12
Prerequisite: PRE-VOC I or CET or ARD Committee Decision
Credit/GP: 1-2 / Modified Course #:
This class is designed to teach basic office skills and learn to operate a copier. Students must be able to do all tasks included in PRE-VOC I with limited supervision.

PRE-VOC III
Grade Placement: 10-12
Prerequisite: PRE-VOC I or CET or ARD Committee Decision
Credit/GP: 1-2 Modified Course #:
This class is designed to teach office management with minimal supervision. Students will learn office tasks, including copying, using fax, and other office machines. Multi tasking is required.

CAREER EXPLORATION TRAINING (CET)
Grade Placement: 9-12
Prerequisite: ARD Committee Decision
Credit/GP: 1-2 / Standard Course #:
The CET class is designed to assist students in the development of employability skills. The students are taught skills in the classroom as well as in the community that will aid in the transition from school to work. Students are supervised at all times by special education staff members. Areas of employment include work - why, how, when, where; job interviews, how to manage money and time, transportation issues, and independent living possibilities.

VOCATIONAL EDUCATIONAL TRAINING (VET)
Grade Placement: 10-12
Prerequisite: ARD Committee Decision
Credit/GP: 1-2 / Standard Course #:
The students volunteer at different sites in the community and are supervised by special education staff at all times. The students receive no pay but do get high school credits applied toward their graduation requirements. Students are able to develop an understanding of career choices and gain essential job skills necessary for success and employability at a job. Students must be at least 16 years old.

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19-20 LUFKIN HIGH SCHOOL ADVANCED ACADEMICS

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EUROPEAN HISTORY AP
Grade Placement: 11-12
Prerequisite: Credit/GP: 1, Weighted /Course #: H4AEH0
AP European History focuses on developing students' abilities to think conceptually about European history from approximately 1450 to the present and apply historical thinking skills as they learn about the past. Five themes of equal importance provide areas of historical inquiry for investigation throughout the course. These require students to reason historically about continuity and change over time and make comparisons among various historical developments in different times and places.

SOCIOLOGY
Grade Placement: 9-12
Prerequisite: None
Credit/GP: 1/2 / Standard / Course#: H6N005
Sociology is a nine week elective course for all levels. It is an introductory course in the study of human relationships and social problems.

PERSONAL FINANCIAL LITERACY
Grade Placement: 10-12
Prerequisite: None
Credit/GP: 1/2 / Standard / Course#: H6N005
Personal Financial Literacy is a one-half credit elective course that will develop citizens who have the knowledge and skills to make sound, informed financial decisions that will allow them to lead financially secure lifestyles and understand personal financial responsibility. This interactive and research-based 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 post-secondary education and training.

EOC SOCIAL STUDIES
Grade Placement: 12
Prerequisite: Credit/GP: 1/2 / Local / Course I: H0NI25
This course is offered for the student who has not met "Approaches Grade Level" on U.S. History EOC. Emphasis is placed on practice testing, test analysis, skill review, and individualized instruction. The EOC retake will be given in December, May, and July.

APPLIED SOCIAL STUDIES
Grade Placement: 9-12
Prerequisite: ARD committee Decision
Credit/GP: 1/2 / Modified
Applied social studies classes offer instruction to students at their assessed level. Students will develop skills in the social sciences that correspond to TEKS objectives for the student's present level of performance. These courses develop an understanding of people, places and environments at local, regional, national and international levels from the spatial and ecological perspectives of geography, offer students an overview of the entire history of humankind, and further the study of the history of the United States from Reconstruction to the present.

SOCIOLOGY DUAL CREDIT
Grade Placement: 10
Prerequisite: Passing TSI Reading or Writing score
Credit/GP: 1/ Weighted
Sociology, an elective course, is an introductory study in social behavior and organization of human society. This course will describe the development of the field as a social science by identifying methods and strategies of research leading to an understanding of how the individual relates to society and the ever changing world. Students will also learn the importance and role of culture, social structure, socialization, and social change in today's society. This course adheres to Angelina College curriculum and requirements for SOCI 1301.

PSYCHOLOGY DUAL CREDIT
Grade Placement: 10
Prerequisite: Passing TSI Reading or Writing score
Credit/GP: 1/ Weighted
In Psychology, an elective course, students study the science of behavior and mental processes. Students examine the full scope of the science of psychology such as the historical framework, methodologies, human development, motivation, emotion, sensation, perception, personality development, cognition, learning, intelligence, biological foundations, mental health, and social psychology. This course adheres to Angelina College curriculum and requirements for PSYC 1301.

OTHER COURSES

ACADEMIC DECATHLON I, IIII
Grade Placement: 10-12
Prerequisite: None
Credit/GP: 1/Local
This local credit class is open to those students who wish to compete in the United States Academic Decathlon. The class, which will be offered during the fall term only, may be repeated up to three times. In the class, students will prepare to compete in three practice meets and the regional meet.

LIBRARY/MEDIA CENTER STUDENT ASSISTANT
Grade Placement: 12
Prerequisite: Selection by Librarian
Credit/GP: NA
This course is designed to stimulate and guide students in all phases of library experiences. All student Media Center aids will acquire specialized skills and knowledge relating to various library procedures while helping to maintain efficient working order in the media center. Students will show proficiency in information technology, filing, book shelving, audiovisual/computer technical skills, and current software. In addition, students will assist with displays, special projects, and moving large numbers of textbooks to and from the bookroom.

STUDENT OFFICE AIDE
Grade Placement: 12
Prerequisite: Selection Credit/GP: No Credit
This course is designed to stimulate and guide students in enhancing skills needed in the work force. Seniors will have hands-on experience and show proficiency in filing, telephone etiquette, personal and interpersonal skills, and typing speed. Students will work at and ADDRESS the public as representatives of Lufkin High School.

LEARNING FRAMEWORKS DUAL CREDIT
Grade Placement: 9
Prerequisite: ECHS Acceptance
Credit/GP: 1/2 / Weighted / Course #: A study of the research and theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for this introductory college level course. Traditional study skills including strategies, notetaking, reading, test preparation are the focus of this course. This course adheres to Angelina College curriculum and requirements for SOCI 1301.
and advanced college courses by making demands on them equivalent to the AP U.S. History course.

Prerequisite: World History
Grade Placement: 11

U.S. HISTORY SINCE RECONSTRUCTION

Prerequisite: World History
Credit/GP: 1/2, 1/2 /Weighted /Course #: H3N005 (all year course)

In this course, which is the second part of a two-year study of U.S. History since Reconstruction, students will be introduced to the industrialization of the United States, the growth of cities, the concentration of wealth and power, and the relationships between economic, social and cultural developments. The objective is to provide students with an understanding of the economic, social, and cultural changes that have occurred in the United States since Reconstruction and to help them develop the skills necessary to evaluate the impact of those changes on contemporary society.

Credit/GP: 1/2, 1/2 /Weighted /Course #: H3A010 (all year course)

Students enrolled in US History - Dual Credit will be required to meet standards of both AP U.S. History and AP World History courses, as well as, History 1301 and 1302 as set by Angelina College. This course is a year long, credit bearing course in which students are responsible for a week's homework and material, unless otherwise noted. Contact the Counseling Office for further information.

U.S. HISTORY AP PreAP

Grade Placement: 10

Prerequisite: World History
Credit/GP: 1/2, 1/2 /Weighted /Course #: H2J000 (all year course)

This course is designed for students who have achieved a high level of history and English skill. In addition to the elements listed in the World History course, there will be an emphasis on reading, writing, and research. In this course students will be required to perform at a level that surpasses the expected norm of regular World History.

GOVERNMENT AP

Grade Placement: 12

Prerequisite: U.S. History
Credit/GP: 1/2, 1/2 /Weighted /Course #: H4A005/H4AASS (all year course)

AP Government gives students a thorough understanding of the principles and structure of government and a deep understanding of American politics. The course is taught at an accelerated pace and requires outside reading and studying. The curriculum includes all elements of the Advanced Placement U.S. Government course. Credit/GP: 1/2, 1/2 /Weighted /Course #: H4A005 (all year course)

ECONOMICS

Grade Placement: 12

Prerequisite: U.S. History
Credit/GP: 1/2, 1/2 /Weighted /Course #: H5N005 (all year course)

Economics with emphasis on the free enterprise system and its benefits is the culmination of the economic content and concepts studies from kindergarten through required secondary courses. The focus is on the principles of capitalism, its underlying principles and ideas, and the form of government it created. Analysis of the major concepts of capitalism, federalism, checks and balances, popular sovereignty, and individual rights are included in the study. Also, the U.S. system of government is compared with other political systems.

AP Economics

Grade Placement: 12

Prerequisite: U.S. History
Credit/GP: 1/2, 1/2 /Weighted /Course #: H5A005/H5AASS (all year course)

AP Microeconomics will give students a thorough understanding of the basic principles concerning production, consumption, and distribution of goods and services in the United States, and a comparison with those in other countries around the world.

MACRO-ECONOMICS AP

Grade Placement: 12

Prerequisite: U.S. History
Credit/GP: 1/2, 1/2 /Weighted /Course #: H5A005/H5AASS (all year course)

AP Macroeconomics will give students a thorough understanding of the dynamics of the economy and economic growth, both in the United States and the world. The course is designed to develop critical thinking and quantitative reasoning skills.

HONOR GRADUATES

Students who select these classes should be prepared for an increase in work load and study time outside of class.

PreAP, AP, and dual credit classes are weighted for GPA purposes. In order to receive weighted credit, a student must be in the AP class on campus for the entire semester. A student entering an AP class after the first day of the spring semester will not receive weighted credit. Since the student does not participate in the research-intensive course outside the classroom, the student’s grade may be changed to reflect a regular-level course. Credit for PreAP and dual credit classes approved by Lufkin ISD will receive weighted credit when transferred grades from another district. Students and parents must sign a unilateral contract for participation in PreAP and AP classes.

If a student is changed from a PreAP or AP class to a regular-level class, no credit will be awarded. Credit/GP: 1/2, 1/2 /Weighted /Course #: H5A005/H5AASS (all year course)

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INFORMATION FOR NCAA CERTIFICATION
1) Graduated from high school.
2) College-bound student-athletes first entering an NCAA Division I college or university prior to August 1, 2016, must earn a grade point average of at least 2.0 (on a 4.0 scale) in a core curriculum of at least 16 academic courses which were successfully completed during grades 9-12. (Only courses approved on Lufkin High School’s "List of NCAA Approved Course"
can be used to calculate GPA for the NCAA).
3) College-bound student-athletes first entering an NCAA Division II college or university on or after August 1, 2016, will need to meet new academic standards to receive athletic aid (scholarship), practice or compete during their first year including a grade point average of at least 2.3.
Ten of the 16 core courses must be complete before the seventh semester (senior year) of high school and seven of the 10 core courses must be in English, Math, or Science.

CREDIT BY EXAMINATION I
(Examination for Acceleration)
Credit By Exam is available to students taking classes in Math, Science, Science, Foreign Language, Philosophy, or Nondisciplinary Religion.

CREDIT AWARDED FROM SHS

Beginning school year 2003-04, students desiring to receive credit from private schools must take Credit By Examination from Texas Tech, or the University of Texas. The grade of 70 or above on the examination. No honors or nonhonors will be posted on the transcript and included in the student’s GPA. All grades will be given the regular weight with the exception of Algebra I, which will be weighted as a pre-AP grade. Incoming ninth grade students will need to test during the summer prior to their ninth grade year. The student will incur the cost of the exam.

COURSES THAT AWARD E. WAIVERS
Band, Cheer and Drill Team (during the fall term) and Athletics fulfill PE requirements.

Career and/or Educational Choices:
Lufkin High School Go Center
The Center is located in room W-117.

Students can learn about the college admissions process, search colleges and majors, and learn about financial aid options. Students can also access the internet to register for college admission tests (SAT/ACT), and college applications. Scholarship opportunities are also available or can be accessed.

Technical School

Credit/GP: 1 / Course #:H1N000
Grade Placement: 10-12
Prerequisite: None

Other Sciences

ENVIRONMENTAL SCIENCES

AP BIOLOGY II
Grade Placement: 11-12
Prerequisite: Biology I and Chemistry I or Physics I
Credit/GP: 1 / Weighted /Course #: S4S60
Bio 2 II is recommended for students who desire a detailed study in an advanced science. The class follows the content requirements prescribed by the College Board: Students are responsible for detailed analytical lab work and extensive reading in the basic topics of biology. Students are expected to take the AP Biology Exam.

AP ENVIRONMENTAL SCIENCE
Grade Placement 11-12 (10th Grade with Chemistry Co Requisite)
Prerequisite: Algebra I and Biology I and Chemistry I
Credit/GP: 1 / Weighted /Course #: S6AEN0
Environmental Science is a recommended for students who desire a detailed study in an advanced science. It follows the content requirements prescribed by the College Board. Students are responsible for detailed analytical lab work and extensive reading in the basic topics of the environmental sciences. Students are expected to take the AP Environmental Science Exam.

ENVIRONMENTAL SYSTEMS
Grade Placement 11-12
Prerequisite: Biology I and Chemistry I or Physics I
Credit/GP: 1 / Standard /Course #: S6EN0

Social Studies

OTHER SCIENCES

WORLD GEOGRAPHY
Grade Placement: 9
Prerequisite: Credit/GP: 1 / Standard /Course #: H1N000

In World Geography, students examine people, places and environments at local, regional, national, and international levels from the spatial and functional perspectives of geography. A significant portion of the course centers around the physical processes that shape patterns in the physical environment; the characteristics of major land forms, climates and vegetation. Content from The World in Process, and social processes that shape cultural patterns of regions; types and patterns
INTEGRATED PHYSICS & CHEMISTRY (IPC)
Grade Placement: 9-10
Prerequisite: None
Credit/GP: 1 / Standard
Course #: S3N000
IPC is an introductory class that is limited to the 9th or 10th grade year. This class gives students basic information about how their world works. The class integrates the disciplines of physics and chemistry in the following topics: motion, waves; energy transformations; properties of matter; changes in matter; and solution chemistry.

CHEMISTRY I
Grade Placement: 10-12
Prerequisite: Algebra I and Biology
Credit/GP: 1 / Standard /Course #: S3N000
Chemistry allows students to study a variety of topics directly relating to their understanding of the chemical world. Topics studied include: characteristics of matter, energy transformations during physical and chemical changes, atomic structure, periodic table of elements, behavior of gases, bonding, nuclear fusion and fission, oxidation-reduction reactions, chemical equations, solutes, properties of solutions, acids and bases, and chemical reactions. Students who anticipate studying advanced science at LHS or in college should consider Chemistry I Pre-AP.

CHEMISTRY I PreAP
Grade Placement: 10-12
Prerequisite: Biology
Credit/GP: 1 / Weighted /Course #: S3P000
Chemistry I Pre-AP is recommended for students who anticipate studying advanced science, especially Chemistry AP. The class will discuss all the topics listed under Chemistry I, but will do more intensive laboratory and field activities including synthesis-type lab work. This class will use selected AP lab procedures and AP testing format.

AP CHEMISTRY II
Grade Placement: 11-12; 10- With instructor approval
Prerequisite: Algebra II and Chemistry I
Credit/GP: 1 / Weighted /Course #: S5ACH0
Chemistry II AP is recommended for students who desire a detailed study in an advanced science. The class follows the content requirements prescribed by the College Board. Students are responsible for detailed analytical lab work and extensive reading in the basic topics of physics. Students are expected to take the AP Chemistry Exam. Many colleges grant college credit for acceptable AP Exam scores.

PHYSICS I
Grade Placement: 10-12
Prerequisite: Algebra I and Biology
Credit/GP: 1 / Standard /Course #: S4N000
Physics is required for all students who complete IPC in 2011-2012, 2012-2013, and 2013-2014. Physics allows students to study a variety of topics directly relating to their understanding of the world. Topics studied include: laws of motion, changes within physical systems and conservation of energy and momentum, force, thermodynamics, characteristics and behavior of waves, electricity, and quantum physics. Students who plan to study advanced science at LHS or in college should consider Physics I Pre-AP.

PHYSICS I PreAP
Grade Placement: 11-12 (10 with instructor approval)
Prerequisite: Algebra II and Biology
Credit/GP: 1 / Weighted /Course #: S4P000
Physics I Pre-AP is recommended for students who anticipate studying advanced science, especially Physics AP. The class will discuss all the topics listed under Physics I, but will do more intensive laboratory and field work using synthesis-type lab work. This class will use selected AP lab procedures and AP testing format.

AP PHYSICS II
Grade Placement: 11-12
Prerequisite: Pre-Calculus and Physics
Credit/GP: 1 / Weighted /Course #: S5APHO
AP Physics II is recommended for students who desire a detailed study in an advanced science. The class follows the content requirements prescribed by the College Board. Students are responsible for detailed analytical lab work and extensive reading in the basic topics of physics. Students are expected to take the AP Physics Mechanics Exam. Many colleges grant college credit for acceptable AP Exam scores.

FORENSIC SCIENCE
Grade Placement: 11-12
Prerequisite: Biology & Chemistry. Completion of Anatomy and Physiology preferred.
Credit/GP: 1 / Standard /Course #: S6NF50
Forensic science is a structured and scientific approach to the investigation of crimes, and the psychology of criminalist behavior. Students will learn basic terminology and investigative procedures related to crime scene, question building, investigating, criminal behavior characteristics, truth detection methodology, and scientific procedures used to solve crimes. Students will have the opportunity to collect and analyze evidence through case studies and mock crime scenes. Lab activities will be based on crime scene scenarios and analyzing fingerprints, ballistics, and blood spatter. Students will learn about the history, legal aspects, ethics, and job related skills necessary for a career in forensic science or related fields.

BIOLOGY I
Grade Placement: 9-11
Prerequisite: None
Credit/GP: 1 / Standard /Course #: S2N000 (All Year Course)
Topics studied include: structure and function of cells and viruses, growth and development of organisms, cells, tissues, and organs, nucleic acids and genetics, biological evolution, taxonomy, metabolism and energy transfer in living organisms, living systems, homeostasis, ecosystems, and plants and the environment. Biology I is a foundation class for all students interested in the health sciences. Students who anticipate studying advanced science at LHS or in college should consider Biology I Pre-AP.

BIOLOGY I PreAP
Grade Placement: 9-11
Prerequisite: None
Credit/GP: 1 / Weighted /Course #: S2P000 (All Year Course)
Biology I Pre-AP is recommended for students who anticipate studying advanced science, especially Biology AP. The class will discuss all the topics listed under Biology I, but will do more intensive laboratory and field activities including synthesis-type lab work. This class will use selected AP lab procedures and AP testing format.

APPLIED SCIENCE
Grade Placement: 9-12
Prerequisite: AFO,AIR, Agricultural Science, or ARD Committee Decision
Credit/GP: 1 / Modified
Applied science courses offer instruction to students at their assessed level. Students will develop skills in areas of science that correspond to TEKS objectives for the student’s present level of performance. These courses develop and understand of principles of biology, physics, and chemistry.

College/University
• Offers undergraduate and graduate degrees in a variety of fields. Doctoral programs vary from school to school.
• May provide pre-professional degree.

College Entrance Tests
ACT Assessment: The academic test covers four areas - English, mathematics, reading, and science reasoning. They are designed to assess the student's educational development and readiness to handle college - level work.
SAT I (Scholastic Aptitude Test): This measures your reasoning skills. This 3-hour test measures reading, writing and math skills. Most Texas four-year colleges require the ACT or SAT for entrance. SAT II Subject Achievement Test (Optional): One-hour examination per subject test. Some highly competitive colleges require achievement test scores.

Colleges grant college credit for acceptable AP Exam scores.

Dual Credit Courses
Dual Credit Sociology-SOCI 1301
Dual Credit Spanish I-SPAN 2301
Dual Credit Learning Frameworks PSYCS1300

See your counselor for any and all questions concerning scheduling.

Be Sure to Take Advantage of All the Resources Available To You in The GO Center
success in this course. Class time will be fully utilized and homework will be given daily.

College Preparatory Math
Grade Placement: 12
Prerequisite: None
Credit/GP: 1 / Standard / Course #: M5CP0
This course is intended for 12th grade students whose performance on an EOC exam does not meet college readiness standards or, coursework, college entrance exam (SAT/ACT), or college placement exam (TSI) indicates the student is not ready for college-level coursework. College Preparatory Math is designed to help students meet college placement requirements (TSI testing) and to be ready for entry-level college math coursework. Students will study linear, quadratic, polynomial, rational, and radical expressions, equations, and functions as well as probability and statistics. This course may count as a 4th mathematics credit for students graduating on the Foundation High School Program.

CALCULUS
Grade Placement: 12
Prerequisite: Pre-Calculus or Pre-Calculus PreAP
Credit/GP: 1 / Standard / Course #: M6NSD
Calculus is a full term 18 week course and will include topics in both differential and integral calculus but is not as rigorous as Calculus I AP. It is intended for the student who is trying to acquire background for college calculus but is not interested in advanced placement. Business applications of calculus will be introduced where applicable. An extensive working knowledge of algebra and pre-calculus is required. Calculators will be used, and experience with them is a must. Class time will be fully utilized and homework will be given daily.

CALCULUS I AP Year-Long
Grade Placement: 11-12
Prerequisite: Pre-Calculus Credit/GP: 2 / Weighted Course #: M6A100 Fall/M6A100 Spring
Calculus I AP is intended for students who are capable of college level coursework and includes topics in both differential and integral calculus. An extensive working knowledge of algebra and pre-calculus is required. Graphing calculators will be used and prior experience with them is a must. Class time will be fully utilized and homework will be given daily.

CALCULUS II AP
Grade Placement: 12
Prerequisite: Calculus I Credit/GP: 1 / Weighted/ Course #: M7A000
Calculus II is an extension and enhancement of Calculus I AP. It is intended for students who are capable of college-level mathematics. Not only will Calculus II include topics in both differential and integral calculus, it also includes vectors, but it will include extensions and additional topics, as well as, related applications. An extensive working knowledge of algebra, pre-calculus and calculus is required. Graphing calculators will be used, and prior experience with them is a must. Consistent independent study will be required for success in this course. Class time will be fully utilized and homework will be given daily.

AP COMPUTER SCIENCE PRINCIPLES
Grade Placement: 9-12
Prerequisite: Algebra I  Credit/GP: 1 / Weighted / Course #: M0ACP0
AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles will give students the opportunity to use technology to address real-world problems and build relevant solutions. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science.

AP COMPUTER SCIENCE A
Grade Placement: 10-12
Prerequisite: Computer Science I PreAP, Algebra I, and Geometry
Credit/GP: 1 / Weighted / Course #: M0ACS0
This is a full term 18 week course. Through the study of technology, students will learn to make informed decisions about technology and its applications. The efficient acquisition of information includes the identification of task requirements, the use of search strategies, and the use of technology to access, analyze, evaluate, and interpret information. AP Computer Science A emphasizes programming methodology and procedures. It includes a study of algorithms, data structures, functions, and recursions. Consistent independent study will be required for success in this course. Class time will be fully utilized and homework will be given daily.

MATH LAB MGR/TUTOR
Grade Placement: 12
Prerequisite: Algebra II, approved application, recommendation of at least 1 Math teacher, and approval of facilitator.
Credit/GP: 1 / 2 to 1 / Local Course #: M9NL10
Math Lab is designed for those students who are interested in working with Math teachers as a student assistant. Some of the duties students will perform are peer tutoring, setting up math labs, demonstration of manipulatives, and student interaction. This course may serve as the fourth math credit.

All courses teach science as a way of learning about the natural world and the processes of science has built a vast body of changing and increasing knowledge described in physical, mathematical, and conceptual models. Courses demonstrate nature as a vast system with an infinite number of subsystems made up of cycles, structures and processes that constantly interact with each other and influence each other. In order to help students understand science, classes use field and laboratory experiences to make learning meaningful. Each student will have the opportunity to choose one-on-one with transfer students. Students who have a strong desire to help others in learning mathematics will be accepted in this program.
GEOMETRY PreAP
Grade Placement: 9-10
Prerequisite: Algebra I
Credit/GP: 1 / Standard /Course #: M4P000
Geometry Pre-AP is a full term 18 week enriched and very fast-paced rigorous course. Students will be expected to have a thorough mastery of all arithmetic skills and Algebra I. Algebra I skills will not be retaught. Technology will be an integral part of this course. Students should have a graphing calculator. Students taking this course will be treated as independent thinkers and problem solvers. Geometric relationships, real-life situations and logical reasoning will be stressed as well as all Geometry concepts and TEKS. Independent study and research will be required. Due to the large number of concepts covered, class time may not be available for reviewing for tests. Consistent independent study and research will be required. Additional emphasis will be placed on proofs, the application of skills, and the generalization of rules. Individual and group projects will be required. Class time will be fully utilized, and homework will be given daily.

ALGEBRA II
Grade Placement: 11-12
Prerequisite: Geometry
Credit/GP: 1 / Standard /Course #: M4N000
Algebra II is a fast paced full term 18 week course. Technology will be an integral part of this course. A graphing calculator will be needed on a regular basis. Students must be proficient in all areas of arithmetic and Algebra I skills. In Algebra II, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I. Students will broaden their knowledge of quadratic functions, exponential functions, and systems of equations. Students will study logarithmic, square root, cubic, cube root, absolute value, rational functions, and their related equations. Students will connect functions to their inverses and associated equations and solutions in both mathematical and real-world situations. In addition, students will extend their knowledge of data analysis and numeric and algebraic methods. Some independent study and research will be required. Class time will be fully utilized, and homework will be given daily.

FINITE MATH
Grade Placement: 11-12
Prerequisite: Algebra II
Credit/GP: 1 / Weighted /Course #: M5PDC0
Finite math is a study in the mathematics of finance. The course is intended for students who are interested in pursuing areas of business in college. The course includes topics in mathematical functions and graphs, as well as, linear systems of equations, matrices, linear programming, permutations, combinations, and numerous applications. A graphing calculator is required. This is a dual credit enrollment course and will follow the Angelina College syllabus, for which students are responsible for books and tuition unless otherwise noted. Class time will be fully utilized and homework will be given daily.

PRE-CALCULUS
Grade Placement: 11-12
Prerequisite: Algebra II
Credit/GP: 1 / Standard /Course #: M3N000
Pre-Calculus includes the study and usage of functions. This will consist of all trigonometric functions, polynomials, logarithms, and an extension of those functions studied in Algebra II. Students need to be proficient in arithmetic, Geometry, Algebra II, and be familiar with the graphing calculator. Class time will be fully utilized, and homework will be given daily.

MATHMATICAL MODELS WITH APPLICATIONS
Grade Placement: 10-12, Teacher/Math Dept. Recommendation
Prerequisite: Algebra I
Credit/GP: 1 / Standard /Course #: M3N000
In the full term 18 week Mathematical Models with Applications course, students will continue to build on their mathematics foundations with limited calculator use. Students will use mathematical methods to model and solve real-life applied problems involving money, data, chance, patterns, music, design, and science. (This course is not open to students with previous credit in Algebra II) Class time will be fully utilized and homework will be given daily.

STATISTICS
Grade Placement: 11-12
Prerequisite: Algebra II
Credit/GP: 1/2 / 1 / Standard /Course #: M6AST0
In Statistics, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I. Students will broaden their knowledge of variability and statistical processes. Students will study sampling and experimentation, categorical and quantitative data, probability and random variables, inference, and bivariate data. Students will connect data and statistical processes to real-world situations. In addition, students will extend their knowledge of data analysis.

AP STATISTICS
Grade Placement: 11-12
Prerequisite: Algebra II with teacher recommendation
Credit/GP: 1 / Weighted /Course #: M6AST0
AP Statistics provides college level work in statistics and will also include the topics of data analysis, probability and interdisciplinary applications. Technology will be an integral part of the course (graphing calculator will be used and required). The syllabus will be built around four broad conceptual themes: 1) Exploring Data: describing patterns and departures from patterns; 2) Sampling and Experimentation: planning and conducting a study; 3) Anticipating Patterns: exploring random phenomena using probability and simulation; 4) Statistical Inference: estimating population parameters and testing hypotheses.

FOUNDATION GRADUATION PLAN
For students entering 9th grade in 2014-2015 and thereafter
The Foundation High School Program seal will be affixed to the student’s academic achievement record (transcript) under this plan. NOTE: Parents and students must meet with a counselor after the second year of high school to be approved for the foundation plan. The following courses are required for graduation:

1. English Language Arts________________________4.0 credits
2. Mathematics______________________________3.0 credits
3. Science______________________________3.0 credits
4. Other Languages________________________2.0 credits
5. Social Studies____________________________4.0 credits
6. Physical Education________________________1.0 credits
7. Fine Arts_____________________________1.0 credits
8. Professional Communication (speech)____________0.5 credits
9. Technology Application (BIM I)________________1.0 credits
10. State Electives____________________________2.5 credits
11. State or Local Electives______________________9.0 credits

TOTAL 31.0 credits
ADVANCED JOURNALISM: NEWSPAPER
Grade Placement: 10-12
Prerequisite: Selection
Credit/GP: 1 / Standard /Course #: JNNP0 (I), JNNP0 (II), JNNP0 (III)

Students further enhance journalistic writing styles, ethics and standards. Writing, technology, and visual and electronic media are used as tools for learning. Students will refine and enhance their journalistic skills, research self-selected topics, and plan, organize and prepare projects. Students will publish the student newspaper. Panther Growls and manage panthergrowls.com, the online student newspaper.

GRAPHIC DESIGN AND ILLUSTRATION/YEARBOOK
Grade Placement: 11-12
Prerequisite: Selection
Credit/GP: 1 / Standard Course #: JNYB0(I), JNYB0(II), JNYB0(III)

Students will learn journalistic ethics and standards. Writing, technology, and visual and electronic media are used as tools for learning. Students will refine and enhance their journalistic skills, research self-selected topics, and plan, organize and prepare projects. Students will publish the student yearbook, The Fang. The student will apply professional communication strategies to individual and group projects and implement critical and problem solving skills. The student will develop workplace employability skills and understand business ethics.

DESKTOP PUBLISHING
Grade Placement: 11-12
Prerequisite: Selection
Credit/GP: II Standard / Course #: JNDP0

This course is for students interested in learning the use of computer programs to incorporate text, graphics and page layout to design newsletters, advertisements, greeting cards, T-shirts, and other projects. Good imagination, keyboarding, writing, art skills are a plus. Analytical skills are a must.

APPLIED MATH
Grade Placement: 9-12
Prerequisite: ARD Committee Decision
Credit/GP: 1 / Weighted (All Year Course)
Course #: M2N000

Prerequisite: Completion of Algebra I. This is an accelerated course which emphasizes basic algebraic concepts and extends higher level thinking skills. Students will become familiar with the graphing calculators in their study of algebraic concepts and use them to investigate problem-solving situations. This course is designed to prepare students for entry into the AP Mathematics program. Students will be expected to have a thorough knowledge of all arithmetic skills. Technology will be an integral part of this course. Students must have a graphing calculator. Students taking this course will be treated as independent thinkers and problem solvers. Functional relationships, real-life situations and logical reasoning will be stressed as well as all Algebra 1 concepts and TEKS. Independent study and research will be required. Due to the large number of concepts covered, class time may not be available for reviewing for tests. Consistent independent study in all required for success in this course. Class time will be fully utilized, and homework will be given daily.

ALGEBRA I EOC
Grade Placement: 10-12
Prerequisite: Failure to meet passing standards of Alg. I EOC
Credit/GP: 1 / Standard Course #: MNRP0

This course is designed for students who were not successful in Algebra 1 as a freshman, or were not successful on the Algebra I EOC. If the student did not meet level II satisfactory scoring this course is designed to help the student become successful. At the end of the course the student will take the Algebra I EOC again. This full term (18 week) course includes all aspects of the full year Algebra 1 course; students will become more familiar with the graphing calculators, and standardized test taking skills will be taught. Class time will be fully utilized, and homework will be given daily.

ALGEBRA I PreAP
Grade Placement: 8-9
Prerequisite: Credit/GP: 1 / Weighted (All Year Course)
Course #: M1P000

This course is a 36 week enriched and accelerated fast-paced rigorous course which emphasizes basic algebraic concepts and extends higher level thinking skills. Students will become familiar with the graphing calculators in their study of algebraic concepts and use them to investigate problem-solving situations. This course is designed to prepare students for entry into the AP Mathematics program. Students will be expected to have a thorough knowledge of all arithmetic skills. Technology will be an integral part of this course. Students must have a graphing calculator. Students taking this course will be treated as independent thinkers and problem solvers. Functional relationships, real-life situations and logical reasoning will be stressed as well as all Algebra 1 concepts and TEKS. Independent study and research will be required. Due to the large number of concepts covered, class time may not be available for reviewing for tests. Consistent independent study in all required for success in this course. Class time will be fully utilized, and homework will be given daily.

MATHEMATICS

APPLIED MATH
Grade Placement: 9-12
Prerequisite: ARD Committee Decision
Credit/GP: 1 / Modifiers
Course #: M2N000

Prerequisite: Failure to meet passing standards of Alg. I EOC. This is an accelerated course which emphasizes basic algebraic concepts and extends higher level thinking skills. Students will become familiar with the graphing calculators in their study of algebraic concepts and use them to investigate problem-solving situations. This course is designed to prepare students for entry into the AP Mathematics program. Students will be expected to have a thorough knowledge of all arithmetic skills. Technology will be an integral part of this course. Students must have a graphing calculator. Students taking this course will be treated as independent thinkers and problem solvers. Functional relationships, real-life situations and logical reasoning will be stressed as well as all Algebra 1 concepts and TEKS. Independent study and research will be required. Due to the large number of concepts covered, class time may not be available for reviewing for tests. Consistent independent study in all required for success in this course. Class time will be fully utilized, and homework will be given daily.

ALGEBRA I
Grade Placement: 9
Prerequisite: None
Credit/GP: 1 / Standard /Course #: M1N000

In this 36-week course students will build on the knowledge and skills for mathematics in Grades 6-8, which provide a foundation in linear relationships, number and operations, and proportionality. Students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated rates. Students will connect functions and their associated solutions in both mathematical and real world situations. Students will use technology to collect and explore data and analyze statistical relationships. In addition, students will study polynomials of degree one and two, radical expressions, sequences, and laws of exponents. Students will generate and solve linear systems with two equations and two variables and will create new functions through transformations. Content will be presented using a variety of teaching methods incorporating different manipulative activities to provide the student with skills necessary for solving real world applications and mastery of the STAAR Algebra I End of Course Exam. Students will use the graphing calculator often. Class time will be fully utilized, and homework will be given daily.

GEOMETRY
Grade Placement: 10-12
Prerequisite: Algebra I
Credit/GP: 1 / Standard /Course #: M2N000

Geometry is an 18 week course that is academically challenging and accessible to all students with the appropriate algebra knowledge and skills. In Geometry, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I to strengthen their mathematical reasoning skills in geometric contexts. Within the course, students will begin to focus on more precise terminology, symbolic representation, and the development of proofs, explore concepts covering coordinate and transformational geometry, logical argument and constructions, proof and congruence, similarity, proof, and (trigonometry, two- and three-dimensional figures, circles, and probability. Probability and statistics have been added to the geometry curriculum to ensure students have proper exposure to these topics before pursuing their post-secondary education. Students will have some access to technology that allows geometric constructions, coordinate graphing, algebraic analysis, and computation. A graphing calculator will be used daily. Class time will be fully utilized, and homework will be given daily.

Graphing, algebraic analysis, and computation. A graphing calculator will be used daily. Class time will be fully utilized, and homework will be given daily.
COMMUNICATION APPLICATIONS FOR DEBATEERS

JOURNALISM

DEBATE I

PROFESSIONAL COMMUNICATIONS

AUDIO/VIDEO PRODUCTION I

PROFESSIONAL COMMUNICATIONS DUAL CREDIT

VISUAL MEDIA ANALYSIS AND PRODUCTION

JOURNALISM COURSES

Audio/Video Production

Audio Video Production I

Audio Video Production II

Audio Video Production III

Audio/Video Production IV

Audio/Video Production V

Audio/Video Production VI

Audio/Video Production VII

Audio/Video Production VIII

Audio/Video Production IX

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Finance

Insurance Operations

Accounting I

Accounting II

Management of Hospitality and Tourism

Hotel Management

Travel and Tourism

Introduction to Culinary Arts

Culinary Arts 1

Culinary Arts 2

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<td><strong>Education and Training</strong></td>
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<td><strong>English Credit to earn an endorsement under the Foundation High School and College Readiness Standards (CCRS), the Texas Essential Knowledge and Skills (TEKS) reading and writing processes to prepare for career and college coursework. Students will engage in a concentrated study of analytical reading, and writing processes to prepare for career and college coursework.</strong></td>
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<td><strong>NOTE: Students will complete a summer reading assignment prior to entering this course.</strong></td>
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<td><strong>ENGLISH III AP</strong></td>
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ENGLISH I
Grade Placement: 9
Prerequisite: None
Credit/GP: 1 / Standard /Course #: E1N000 (all year course)

Students enrolled in English I will continue to develop and sustain the foundational linguistic skills: reading, writing, speaking, and listening. Students will recognize and analyze genre-specific characteristics, structures, and purposes within and across increasingly complex traditional, contemporary, classical and diverse texts and determine how the characteristics influence and communicate meaning. Texts analyzed will include short stories, arguments, informational texts, poetry, and drama. In addition, students will respond to the texts they analyze through writing, collaboration, and oral communication. Students will write expository essays, arguments, poetry, and dramas in order to facilitate their understanding of the texts they analyze. Students will also learn grammar such as parts of speech and functions as well as other conventions of English in order to revise and edit their own writing to ensure clarity, coherence, organization, and sentence fluency.

LUFKIN HIGH SCHOOL
Foundation Plan
Distinguished Level of Achievement
For students entering 9th grade in 2014-2015 and thereafter

The Distinguished High School Program seal will be affixed to the student’s academic achievement record (transcript) under this plan. The student must also obtain an endorsement to complete the Distinguished Graduation Plan. See Endorsements for additional information. The following courses are required for graduation:

1. English Language Arts ______ 4.0 credits
   English I, II, III, & IV (ESOL I & II may be substituted for English Language Learners)

2. Mathematics ______ 4.0 credits
   Must include Algebra I and Geometry, Algebra 2, & Advanced Math

3. Science ______ 4.0 credits
   Must include Biology (IPC and two advanced sciences OR three advanced sciences for Distinguished.)

4. Other Languages ______ 2.0 credits
   Must be in the same language

5. Social Studies ______ 4.0 credits
   World Geography (9), World History (10), US History (11), & Government/Economics (12)

6. Physical Education ______ 1.0 credits
   Students may earn no more than four (4) state credits in physical education (additional credits will be local electives). Substitutions for physical education credits are: Marching Band (fall term), Drill Team (fall term), Cheer, and Athletics.

7. Fine Arts ______ 1.0 credits

8. Professional Communication (speech) ______ 0.5 credits

9. Technology Application (BIM I)_________ 1.0 credits

10. Distinguished Electives ______ 1.0 credits

11. State Electives ______ 4.5 credits

12. State or Local Electives ______ 5.0 credits

TOTAL ______ 31.0 credits
**Distinguished Level of Achievement: 31 Credits**

Eligible for Top 10% Automatic Admission

**Algebra II**

**Endorsements**

**Multi-Disciplinary Studies**

**Arts & Humanities**

**Industry**

**Graduation Building Block**

0 credits: **PHYSICAL EDUCATION**

0 credits: **FINE ARTS**

0.5 credits: **PROF. COMMUNICATION**

4.5 credits: **STATE ELECTIVES**

5.0 credits: **STATE OR LOCAL ELECTIVES**

**Languages Other Than English**

**SPANISH I (Novice Progress Checkpoint)**

Grade Placement: 9-12

Prerequisite: None

Credit/GP: 1/Standard /Course #: L1NSP0

Using age appropriate activities, students develop the ability to perform the tasks of the novice language learner. The novice language learner, when dealing with familiar topics, should understand short utterances when listening and respond orally with learned material; produce learned words, phrases, and sentences when speaking and writing; detect main ideas in familiar material when listening, and reading; make lists, copy accurately, and write from dictation; recognize the importance in communication to know about the culture; and recognize the importance of acquiring accuracy of expression by knowing the components of the language including grammar. This is a full term course.

**SPANISH II (Completion of Novice Progress Checkpoint)**

Grade Placement: 9-12

Prerequisite: Spanish I

Credit/GP: 1/Standard /Course #: L2NSP0

Spanish II will expand upon the tasks and knowledge of the novice language learner as presented in Spanish I. This is a full term course.

**SPANISH III Pre AP (High Novice Progress Checkpoint)**

Grade Placement: 9-11

Prerequisite: Spanish I

Credit/GP: 1/Weighted /Course #: L3PSP0

For advanced language learners who seek to complete AP testing in Spanish Language and/or Spanish Literature. Students should be able to handle a variety of simple communicative tasks in various tenses (past, present, and future). Conversation includes topics necessary for survival and straightforward social situations. Listening skills will include understanding of longer utterances. Students will produce sentence and paragraph length discourse when writing and speaking. They will be able to detect main ideas and some details when listening and reading. This is a full term course.

**SPANISH III Pre AP (Intermediate Progress Checkpoint)**

Grade Placement: 9-12

Prerequisite: Spanish II or Spanish for Spanish Speakers I

Credit/GP: 1/Weighted /Course #: L3PSP0

For advanced language learners who seek to complete AP testing in Spanish language and literature while in high school. Entering students should be able to handle a variety of skills in listening, speaking, reading, and writing. Students will learn to ask for and give information; develop culturally appropriate social skills; learn to communicate meaning in more complicated practical and social situations; meet practical and social writing needs; use components of language, including grammar, accurately. Use literature, newspapers, and the web for experience with authentic materials in Spanish. This is a full term course. This course adheres to Angelina College curriculum and requirements for SPAN 2311. Angelina College course bypass must be met to enroll into SPAN 2311.

**SPANISH IV Pre AP (High Intermediate Progress Checkpoint)**

Grade Placement: 9-12

Prerequisite: Spanish III Pre-AP or Spanish for Spanish Speakers II

Credit/GP: 1 / Weighted /Course #: L4PSP0

Spanish IV Pre-AP will expand upon the tasks and knowledge of intermediate and low-advanced language learners as well as providing continued exposure to literature. Students will learn to ask and answer questions which require advanced vocabulary and grammar. Students will give oral presentations and written opinions. Students will write multiparagraph essays using appropriate syntax and conventions of language. They will understand more advanced dialogues, reports, news, poetry and prose when listening or reading. This is a full term course.

**SPANISH V AP LANGUAGE (Advanced Progress Checkpoint)**

Grade Placement: 11-12

Prerequisite: Spanish IV Pre-AP

Credit/GP: 1 / Weighted /Course #: L5ASP0

An AP Spanish Language course is comparable to an advanced level (fifth or sixth semester or the equivalent) college Spanish Language course. This course focuses on the use of Spanish for active communication, encompassing aural/oral skills, reading comprehension, grammar, and composition. The course objectives are to help the student comprehend formal and informal spoken Spanish; acquire vocabulary and understand the structures of newspaper and magazine articles, as well as, modern literature in Spanish; compose expository passages; and express ideas orally with accuracy and fluency. This course seeks to develop language skills that are useful in themselves and that can be applied to various activities and disciplines, rather than to the mastery of any specific subject matter. Students receive extensive training in the organization and writing of compositions as an integral part of this AP course. This is a full term course.

**SPANISH VI AP LITERATURE**

Grade Placement: 11-12

Prerequisite: Spanish V AP

Credit/GP: 1 / Weighted /Course #: L6ASP0

An AP Spanish Literature course is comparable to a third year college course. Introduction to Hispanic Literature. It is based on a required reading list. The works on the list are of literary significance and represent various historical periods, literary movements, genres, geographic areas, and population groups within the Spanish speaking world. The objective of this course is to help the student interpret and analyze literature in Spanish. This is a full term course.

**SPANISH FOR SPANISH SPEAKERS I**

Grade Placement: 9-12

Prerequisite: None

Credit/GP: 2/Standard (equivalent to Spanish I and II)

Course #: L2NSS0/L2NSS2

Spanish for Spanish Speakers is an accelerated course for high school Spanish speakers who are conversant in their native language but may have had little or no formal instructional training in the language. Stress will be placed upon reading skills and grammar skills. It is the equivalent of Spanish I and II for non-native speakers. This course is linked to TEKS objectives. This is a full term course.

**SPANISH FOR SPANISH SPEAKERS II**

Grade Placement: 9-12

Prerequisite: Spanish For Spanish Speakers I

Credit/GP: 1 / Standard (equivalent to Spanish II)

Course #: L3NSS0

Spanish for Spanish Speakers II will provide more opportunities for Spanish speaking students who have little or no formal instruction in their native language other than Spanish for Spanish Speakers I. This course responds to the need for further development in vocabulary, spelling, grammar, reading, and writing activities for the Spanish speaking student. Spanish for Spanish Speakers II is also an exploration of the history, culture, literature and diversity of the Spanish speaking world. SIS II will be linked to the TEKS objectives. This is a full term course.
**TECHNICAL THEATRE I**
Grade Placement: Recommendation Required for Grade 9
Prerequisite: None
Credit/GP: 1 / Standard / Course #: P1NIS5 (1st) / P2NIS5 (2nd) / P3NIS5 (3rd)

The primary function of the Technical Theatre class is to create sets for the Theatre Department's productions; students will be directly involved with constructing the sets. The students will be taught safe use tools, as well as, construction and carpentry techniques. Students must be willing to use power tools, including drills and a variety of saws. Other areas of technical theatre will be studied, as the production schedule permits, set design, costume design, make-up application, lighting, and sound.

**TECHNICAL THEATRE II**
Grade Placement: 9-12
Prerequisite: Technical Theatre I and Selection
Credit/GP: 1 / Standard / Course #: P2NTT5 / P3NTT5

This course is for students who will continue the construction and design techniques on more advance levels.

**THEATRE PRODUCTION I-IV**
Grade Placement: 11-12
Prerequisite: Theatre Arts I-IV
Credit/GP: 1 / Standard / Course #: Theatre production classes focus on performance aspects of theatre and allow students who have completed Theatre Arts I-IV to continue advancing their skills as actors. Students are also introduced to theatre directing in this class.

**DANCE I**
Grade Placement: 9-10
Prerequisite: No prior dance experience
Credit/GP: 1 / Standard / Course #: P1RPF0

This is an introduction to basic kinds of dance including ballet, modern, tap, jazz, and also drill team fundamentals. This class is designed for students with no prior dance instruction.

**HEALTH I**
Grade Placement: 9-12
Prerequisite: None
Credit/GP: 1 / 2 Standard / Course #: P5N005

Health is a nine weeks course presenting phases of physical, mental, and social health. This is a required course.

**HEALTH II**
Grade Placement: 10-12
Prerequisite: Health I
Credit/GP: 1 / 2 Standard / Course #: P6N005

This course is designed to help students who are interested in the allied health fields of Physical Therapy, Athletic Training, and Occupational Therapy.

**PE. FOUNDATIONS OF PERSONAL FITNESS**
Grade Placement: 9-12
Prerequisite: None
Credit/GP: 1 / 2 Standard / Course #: P0N1A5

This course is recommended prerequisite for all other physical education courses. Students will acquire the knowledge and skills for movement that provide the foundation for enjoyment, continued social development through physical activity, and access to a physically-active lifestyle. The student exhibits a physically-active lifestyle and understands the relationship between physical activity and health throughout the lifespan.

**PE. INDIVIDUAL SPORTS**
Grade Placement: 9-12
Prerequisite: P.E. I- A Foundations of Personal Fitness
Credit/GP: 1 / 2 Standard / Course #: P1NIS5 (1st) / P2NIS5 (2nd) / P3NIS5 (3rd)

Students will participate in a wide range of individual sports that can be pursued for a lifetime. The continued development of health-related PE. II TEAM SPORTS
Grade Placement: 9-12
Prerequisite: Foundations of Personal Fitness
Credit/GP: 1 / 2 Standard / Course #: P1NIS5 (1st) / P2NIS5 (2nd) / P3NIS5 (3rd)

Students enrolled in Team Sports are expected to develop health related fitness and an appreciation for teamwork, fair play, and social development through physical activity.

**RECREATION AND LEISURE**
Grade Placement: 9-12
Prerequisite: ARD Committee Decision
Credit/GP: 1 / 2 Standard / Course #: R1RPF0/R1RPS0

This course is designed to enhance the physical abilities of special needs students. This course will work on improving gross motor skills, balance, coordination, agility, and strength through a variety of simple conditioning activities and games.

**ADAPATIVE PE**
Grade Placement: 9-12
Prerequisite: ARD Committee Decision
Credit/GP: 1 / 2 Standard / Course #: R1RPF0

This course is designed to meet the needs of students with significant physical and mental handicaps. The class focuses on flexibility, strength and independent movement.

**ATHLETICS**
Grade Placement: 9-12
Prerequisite: Selection by Coaches
Credit/GP: 1 / 2-1 Standard / Course #: R1RPF0/R1RPS0

This course is designed to meet the needs of students with significant physical and mental handicaps. The class focuses on flexibility, strength and independent movement.

**CAREER & TECHNOLOGY EDUCATION**

**AGRICULTURE, FOOD AND NATURAL RESOURCES**

**PRINCIPLES OF AGRICULTURE, FOOD AND NATURAL RESOURCES**
Grade Placement: 9-12
Prerequisite: None
Credit/GP: 1 / Standard / Course #: CONP5

This course allows students to develop knowledge and skills related to animal systems and the workplace. Animal species addressed in this course may include: beef cattle, dairy cattle, swine, sheep, goats, and poultry.

**LIVESTOCK PRODUCTION**
Grade Placement: 10-12
Prerequisite: None
Credit/GP: 1 / Standard / Course #: CONLP5

To prepare for careers in the field of animal science, students need to enhance academic knowledge and skills, and acquire knowledge and skills related to animal systems and the workplace. Small animals which may be included in this course: small mammals, amphibians, reptiles, avian, dogs and cats.

**SMALL ANIMAL MANAGEMENT**
Grade Placement: 9-12
Prerequisite: None
Credit/GP: 1 / 2 Standard / Course #: CONSA5

To prepare for careers in the field of animal science, students need to enhance academic knowledge and skills, and acquire knowledge and skills related to animal systems and the workplace. Suggested animals which may be included: horse, donkeys and mules.

**EQUINE SCIENCE**
Grade Placement: 10-12
Prerequisite: None
Credit/GP: 1 / 2 Standard / Course #: CONEQ5

To prepare for careers in the field of animal science, students need to enhance academic knowledge and skills, and acquire knowledge and skills related to animal systems and the workplace. Suggested animals which may be included: horse, donkeys, and mules.

**ADVANCED ANIMAL SCIENCE**
Grade Placement: 12
Prerequisite: Recommended to have a minimum of one credit from a course in the Agriculture, Food and Natural Resources cluster - Livestock Production is preferred but not mandatory
Credit/GP: 1 / Standard / Course #: CONAA0

To prepare 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. This course examines the interrelatedness of human, scientific and technological dimensions of livestock production. This course is recommended for students in grade 12. To receive credit in science, students must meet the 40% laboratory and fieldwork requirement.

**PROFESSIONAL STANDARDS in AGRIBUSINESS**
Grade Placement: 9-12
Prerequisite: None
Credit/GP: 1 / Standard / Course #: CONP5

This course primarily focuses on leadership, communication, employer-employee relations, and problem solving as they relate to agribusiness.

**ENERGY AND NATURAL RESOURCES TECHNOLOGY**
Grade Placement: 10-12
Prerequisite: None
Credit/GP: 1 / Standard / Course #: CONETS

This course is designed to explore the interdependency of the public and natural resources systems related to energy production. Renewable, sustainable and environmentally friendly practices will be explored.

**ADVANCED ENERGY AND NATURAL RESOURCES**
Grade Placement: 10-12
Prerequisite: Agriculture, Food and Natural Resources Cluster
Credit/GP: 1 / Standard / Course #: CONET5

This course examines the interrelationship of environmental issues and production agriculture. Students examine sustainable resources and green technologies which will provide environmental benefits.

**FOOD TECHNOLOGY AND SAFETY**
Grade Placement: 10-12
Prerequisite: None
Credit/GP: 1 / Standard / Course #: CONFW5

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.

**FORESTRY AND WILDLANDS ECOSYSTEMS**
Grade Placement: 10-12
Prerequisite: None
Credit/GP: 1 / Standard / Course #: CONFS5

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.

**LANDSCAPE DESIGN MANAGEMENT**
Grade Placement: 10-12
Prerequisite: None
Credit/GP: 1 / 2 Standard / Course #: CONLDS5

This course is designed to develop an understanding of the techniques and practices utilized in the landscape design, landscape construction and turf grass management industry.
Horticuture Science
Grade Placement: 10-12
Prerequisite: None
Credit/GP: 1 / Standard /Course #: CONH05
This course is designed to develop an understanding of horticultural practices that relate to vegetable, fruit, and nut production, as well as the propagation techniques used in ornamental plant production.

Agricultural Mechanics and Metal Technologies
Grade Placement: 10-12
Prerequisite: None
Credit/GP: 1 / Standard /Course #: CONAM5
This course is designed to develop an introductory understanding of agricultural mechanics as it relates to safety, skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, masonry and metal techniques and practices.

Agricultural Power Systems
Grade Placement: 10-12
Prerequisite: None
Credit/GP: 2 / Standard /Course #: CONPW0
This course is designed to develop an understanding of power and control systems used in agricultural industries. Subjects will include: internal combustion engines, electric motors, hydraulics, pneumatics, control systems used in agricultural industries. Subjects will include:

BUSINESS MANAGEMENT AND EDUCATION

Principles of Business, Marketing and Finance
Grade Placement: 9-11
Prerequisite: None
Credit/GP: 1 / Standard /Course #: CINBM5
Students gain knowledge and skills in economics and private enterprise systems, the impact of global business, marketing of goods and services, advertising and product pricing. Students analyze the sales process and financial management principles.

Touch System Data Entry
Grade Placement: 9-12
Prerequisite:
Credit/GP: 1/2 / Standard /Course #: CINTS5
Students apply technical skills to address business applications of emerging technology through data input, formatting and printing documents, developing correct techniques for the touch system of operating the keyboard to develop speed and accuracy. Students enhance reading, writing, computing, communication and reasoning skills and apply them to the business environment.

Business Information Management I
Grade Placement: 9-12
Prerequisite:
Credit/GP: 1 / Standard /Course #: CINB10
BIM introduces students to information systems and communication technology in a business environment, and builds a foundation of computer skills necessary for success in a technologically driven society. Utilizing Microsoft Office 2010 software, students will develop word processing, spreadsheet, database, desktop publishing and slideshow presentation skills. Throughout the course, there is an emphasis on career exploration, digital literacy, effective electronic research, communication skills and current issues related to the impact of information and communication technology.

Business Information Management II
Grade Placement: 11-12
Prerequisite: Business Information Management I
Credit/GP: 1 / Standard /Course #: CINB20
This course is designed specifically for students who are self motivated and interested in becoming a certified Microsoft Office Specialist (MOS) in one or more Microsoft Office programs Word, Excel and PowerPoint. Students will be required to work at a fast pace and at an advanced level increasing their knowledge and proficiency in one or more Microsoft Office programs. In-class training is conducted online and in the CTE computer lab. Once students reach a 90% passing rate on each training exam, they are then eligible to take an official MOS examination test. Successful candidates will receive an official MOS certification from Microsoft Office.

Business Law
Grade Placement: 11-12
Prerequisite: None
Credit/GP: 1 / Standard /Course #: CINBL5
Students analyze the social responsibility of business and industry regarding the significant issues relating to the legal environment, business ethics, consumer laws, contracts, negotiable instruments, personal property, sales and warranty rights.

Kantori IV
Grade Placement: 12
Prerequisite: Audition and Selection
Credit/GP: 1 / Standard
Course #: F4NK05 (Fall), F4NK50 (Spring)
Kantori IV is for Kantori Mixed Choir. Students in Kantori should have the necessary skills to compete at an award-winning level in All-State, UIL Solo & Ensemble and Solo & Ensemble competitions. Students will demonstrate basic performance techniques and concert behavior in formal and informal settings, accurate intonation and rhythm, an understanding of advanced musical ideas, and will sight-read complex melodies. Students will perform a variety of moderately difficult to difficult musical repertoire representing genres and styles from diverse cultures. Auditioning for Region, Area, and State Choir is strongly encouraged, as well as participation in the UIL Solo & Ensemble contest. Attendance at concerts and pre-scheduled after-school rehearsals is mandatory.

Women's Choir I
Grade Placement: 9
Prerequisite: Audition and Selection
Credit/GP: 1 / Standard
Course #: F1NWF0 (Fall), F1NWS0 (Spring)

Women's Choir II
Grade Placement: 10
Prerequisite: Audition and Selection
Credit/GP: 1 / Standard
Course #: F2NWF0 (Fall), F2NWS0 (Spring)

Women's Choir III
Grade Placement: 11
Prerequisite: Audition and Selection
Credit/GP: 1 / Standard
Course #: F3NWF0 (Fall), F3NWS0 (Spring)

Women's Choir IV
Grade Placement: 12
Prerequisite: Audition and Selection
Credit/GP: 1 / Standard
Course #: F4NWF0 (Fall), F4NWS0 (Spring)

Music Theory (Level IV)
Grade Placement: 12
Prerequisite: Audition/Selection
Credit/GP: 1 / Standard /Course #: F8NMT0
The course in Music Theory is an advanced study of musical analysis and composition. Through the study of various compositions, students will learn about various musical elements, including metric, rhythm, harmony, orchestration, chord progressions, and advanced harmonies leading toward a final composition using a simple binary or ternary form. The course will also include a basic overview of the major historical periods of music including, but not limited to, the Renaissance, Baroque, Classical, Romantic, Impressionistic, and 20th century music. This class is designed for students with a strong musical background who are capable of college level performance.

Music History
Grade Placement: 9-12
Prerequisite: None
Credit/GP: 1 / Standard /Course #: F1NMH0
The course in Music History is a very broad study of multiple aspects of music. Through the review of a multitude of compositions from around the world and across multiple centuries, students will learn the many influences affecting the development of music styles and functions in our western culture. Topics may include, but are not limited to, Renaissance, Baroque, Classical, Romantic, and 20th century periods, as well as the development of pop, jazz, blues, rap, country, and many other forms of secular music. This course is designed for students with limited or no background in music.

Theatre Arts I
Grade Placement: 9-12
Prerequisite: None
Credit/GP: 1 / Standard /Course #: F1NTA0
A survey course, that provides the students with an intense sampling of all facets of theatre, with an emphasis being placed on actor training. The subject will cover the stage, stage terminology, structure of plays, and early theatrical history to vocal and movement training for the actor. Also, included will be acting, as well as stage design and construction, lighting, costume, and make-up.

Theatre Arts II
Grade Placement: 10-12
Prerequisite: Theatre Arts I and Selection
Credit/GP: 1 / Standard /Course #: F2NTA0
Designed to emphasize advanced study in two areas: acting and design. Course units will include the study of advanced acting techniques and application of the design elements for the stage through group and individual projects. Involvement in co-curricular productions, contests, and/or other such activities is an integral requirement of the class.

Theatre Arts III
Grade Placement: 11-12
Prerequisite: Theatre Arts II/Selection
Credit/GP: 1 / Standard /Course #: F3NTA0
Provides the advanced theatre students with extensive actor preparation, as well as, specialized training in areas of special interest to the individual students. Among these are theatre literature, design, directing, and play writing. Emphasis is on the refinement of skills. Involvement in co-curricular productions, contests, and/or other such activities is an integral requirement of the class.

Theatre Arts IV
Grade Placement: 12
Prerequisite: Theatre Arts III/Selection
Credit/GP: 1 / Standard /Course #: F4NTA0
Provides the advanced theatre students with extensive actor preparation, as well as, specialized training in areas of special interest to the individual students. Among these are theatre literature, design, directing, and play writing. Emphasis is on the refinement of skills. Involvement in co-curricular productions, contests, and/or other such activities is an integral requirement of the class.
**ART III COMMERCIAL PHOTOGRAPHY**

(ony may be taken for dual credit)

*Grade Placement: 11-12*

**Prerequisite: Art II Commercial Photography**

*Credit/GP: 1 / Standard /Course #: F0NAM0*

Students will be expected to develop an advanced understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs. Curricula includes advanced features of a digital single lens reflex camera (DSLR), studio lighting equipment, and photo editing software (Adobe Lightroom and Photoshop). Students will further explore careers in commercial photography, deliver visual presentations, display proficiency in photo editing, and complete professional quality “real world” photography assignments.

**BAND (Music Level I)**

*Grade Placement: 9*

**Prerequisite: 7-8 Band**

*Credit/GP: 1/2 / Standard /Course #: F1NB1S,F1NBS0(Fall),F1NBS0(Spring)*

Band is a full year laboratory for students of instrumental music. The music prepared by the band ranges from marches to symphonic arrangements, including both traditional and modern selections representing genres and styles from diverse cultures. Performances vary from informal to formal settings. This course also actively involves students with solo and small ensemble literature of moderately to moderately difficult levels.

**BAND (Music Level II)**

*Grade Placement: 10*

**Prerequisite: Band Music Level I**

*Credit/GP: 1-2 / Standard /Course #: F2NB1S,F2NBS0(Fall),F2NBS0(Spring)*

Band is a full year laboratory for students of instrumental music. The music prepared by the band ranges from marches to symphonic arrangements, including both traditional and modern selections representing genres and styles from diverse cultures. Performances vary from informal to formal settings. This course also actively involves students with solo and small ensemble literature of moderately difficult levels.

**BAND (Music Level III)**

*Grade Placement: 11*

**Prerequisite: Band Music Level II**

*Credit/GP: 1-2 / Standard /Course #: F3NB1S,F3NBS0(Fall),F3NBS0(Spring)*

Band is a full year laboratory for students of instrumental music. The music prepared by the band ranges from marches to symphonic arrangements, including both traditional and modern selections representing genres and styles from diverse cultures. Performances vary from informal to formal settings. This course also actively involves students with solo and small ensemble literature of moderately difficult levels.

**MENS CHOIR**

*Grade Placement: 9*

**Prerequisite: None**

*Credit/GP: 1 / Standard /Course #: F1NF0(Fall),F1NJS0*

The student is expected to play an instrument individually and perform a varied repertoire of music from memory and notation, representing styles from diverse cultures. Students will respond to and evaluate music and music performances.

**JV WOMENS CHOIR I**

*Grade Placement: 9*

**Prerequisite: None**

*Credit/GP: 1 / Standard /Course #: F1NF0(Fall),F1NJS0*

**JV WOMENS CHOIR II**

*Grade Placement: 10*

**Prerequisite: Treble Choir I**

*Credit/GP: 1 / Standard /Course #: F2NF0(Fall),F2NJS0*

**JV WOMENS CHOIR III**

*Grade Placement: 11*

**Prerequisite: None**

*Credit/GP: 1 / Standard /Course #: F3NF0(Fall),F3NJS0*

**JV WOMENS CHOIR IV**

*Grade Placement: 12*

**Prerequisite: None**

*Credit/GP: 1 / Standard /Course #: F4NF0(Fall),F4NJS0*

**MENS CHOIR**

*Grade Placement: 9*

**Prerequisite: None**

*Credit/GP: 1 / Standard /Course #: F1NF0(Fall),F1NJS0*

**MENS CHOIR**

*Grade Placement: 10*

**Prerequisite: None**

*Credit/GP: 1 / Standard /Course #: F2NF0(Fall),F2NJS0*

**MENS CHOIR**

*Grade Placement: 11*

**Prerequisite: None**

*Credit/GP: 1 / Standard /Course #: F3NF0(Fall),F3NJS0*

**MENS CHOIR Grade Placement: 12**

**Prerequisite: None**

*Credit/GP: 1 / Standard /Course #: F4NF0(Fall),F4NJS0*

Mens choir is a training level mixed choir designed to give students experiences in parts of a performing girls choir. Students will demonstrate basic performance techniques and concert behavior in formal and informal settings, accurate intonation and rhythm, an understanding of basic musical ideas, and will sight read simple melodies. Students will perform a variety of music to moderately difficult literature representing genres and styles from diverse cultures. Attendance at concerts and pre-scheduled afterschool rehearsals is mandatory.

**HUMAN RESOURCE MANAGEMENT**

*Grade Placement: 11-12*

**Prerequisite: None**

*Credit/GP: 1/2 / Standard /Course #: C1NHR5*

Students recognize, evaluate and prepare for a rapidly evolving global business environment that requires flexibility and adaptability. Students analyze the primary functions of human resource management, which include recruitment, selection, training, development and compensation.

**VIRTUAL BUSINESS**

*Grade Placement: 11-12*

**Prerequisite: BCIS I**

*Credit/GP: 1/2 / Standard /Course #: C1NVB0*

Students will be able to provide administrative, creative and technical services using advanced technological modes of communication and data delivery. The student builds a functional website that incorporates the essentials of a virtual business.

**PRACTICUM IN BUSINESS MANAGEMENT Co-Op**

*Grades 11-12*

**Prerequisite:** Course Request

Credit/GP: 2-3 credits / Standard (Fall and Spring term)

Course #: CPNS0/CPNS0

This course is a junior/senior program in which the local businesses and the LISD work together to train students for career offices in architecture. In addition to computer applications and various technical skills, students will learn human relations, communication and other software skills. Students will have the opportunity to train and test for Microsoft Office certification. Membership in Business Professionals of America will provide the students the advantage of learning leadership skills while participating in service for the community. The program requires a full year commitment and one class per day.

**FINANCE**

**PRINCIPLES OF BUSINESS MARKETING AND FINANCE**

*Grade Placement: 9-10*

**Prerequisite: None**

*Credit/GP: 1 / Standard /Course #: C1NB5M*

Students gain knowledge and skills in economics and private enterprise systems, the impact of global business, marketing of goods and services, advertising and product pricing. Students analyze the sales process and financial management principles.

**MONEY MATTERS**

*Grade Placement: 9-12*

**Prerequisite: None**

*Credit/GP: 1 / Standard /Course #: C2NM5M*

Students study and understand the essentials of financial management and money matters as they relate to the value of money in a business environment that requires flexibility and adaptability. Students will determine methods of achieving long term financial goals through investment, tax planning, asset allocation, risk management, retirement and estate planning.

**INSURANCE OPERATIONS**

*Grade Placement: 10-12*

**Prerequisite: None**

*Credit/GP: 1 / Standard /Course #: C2NNS5*

Students will describe and understand all aspects of the insurance industry including liability, automobile, homeowners, commercial, life, disability, workers compensation, health, and title insurance policies within the industry. Students will explore careers, education requirements and insurance industry regulations.

**ACCOUNTING I**

*Grade Placement: 10-12*

**Prerequisite: None**

*Credit/GP: 1 / Standard /Course #: C7NA01*

Students will investigate the field of Accounting, and reflect on this knowledge as they engage in the process of recording, classifying and summarizing, accounting information. Students will formulate and interpret financial information for use in management decision making. Acc. 1 and 2 are laboratory courses featuring web-based interactive software that is accessible to the student at school and home.

**ACCOUNTING II**

*Grades 11-12*

**Prerequisite:** Accounting I

*Credit/GP: 1 / Standard /Course #: C7NA2O*

Students continue to investigate the field of accounting and how it is impacted by industry standards as well as economic, technological, international, social, legal and ethical factors. Students use equations, graphical representations, accounting tools strategies and systems in real-world situations to maintain, monitor, control, and plan the use of financial resources.

**MARKETING**

**ADVERTISING**

*Grade Placement: 10-12*

**Prerequisite: None**

*Credit/GP: 1/2 / Standard /Course #: C6NAD5*

Students will gain knowledge of techniques used in current advertising, including print, broadcast and digital media. This course explores the social, ethical and legal issues of advertising, historical influences, strategies, and media decision processes, as well as integrated marketing communications.

**ENTREPRENEURSHIP**

*Grade Placement: 10-12*

**Prerequisite: None**

*Credit/GP: 1 / Standard /Course #: C6NEN5*

Students will learn the principles necessary to begin and operate a business. Students will understand the importance of analyzing a business plan, determining the feasibility of research, and developing a plan to organize and promote the business, its products and services.
ARTS, AUDIO/VIDEO TECH. & COMMUNICATIONS

ANIMATION I
Grade Placement: 10-12
Prerequisite: None
Credit/GP: 1 / Standard /Course #: ANA000
Prerequisite: Selection
Credit/GP: 2 / Standard /Course #: J2NA0
This course is designed for students capable of college level performance. Two drawings (any level) and acceptable AP Portfolio scores. must be submitted and approved. Many colleges grant college credit for approved AP Portfolio scores.

ANIMATION II
Grade Placement: 11-12
Prerequisite: Recommended Principles of Law, Public Safety, Corrections and Security
Credit/GP: 1 / Standard /Course #: C9NPL0
This level III course focuses on a broad variety of design issues, including proficiency in graphic design, photography, collage, painting, etc. This course is designed for students capable of college level performance. Two art examples and the Art II teacher recommendation/contract form must be submitted and approved. Many colleges grant college credit for acceptable AP Portfolio scores.

AP ART III - 3-D DESIGN
Grade Placement: 10-12
Prerequisite: Samples/ Recommendation Credit/ GP: 1 / Weighted /Course #: F3A3D0
This level III course focuses on drawing a broad variety of 3 D designs. This course is designed for students capable of college level performance. Two art examples and the Art II teacher recommendation/contract form must be submitted and approved. Many colleges grant college credit for acceptable AP Portfolio scores.

ART II DRAWING
Grade Placement: 10-12
Prerequisite: Art I
Credit/ GP: 1 / Standard /Course #: F2NDR0
This level II course places an emphasis on drawing techniques using various media. Level II courses are designed for students who have been successful in Art I and are seriously interested in developing further skills in a particular area.

ART II PAINTING
Grade Placement: 10-12
Prerequisite: Art I
Credit/ GP: 1 / Standard /Course #: F2NPA0
This level II course places emphasis on painting techniques using various media and surfaces. Level II courses are designed for students who have been successful in Art I and are seriously interested in developing further skills in a particular area.

ART II SCULPTURE
Grade Placement: 10-12
Prerequisite: Art I
Credit/ GP: 1 / Standard /Course #: F2NSC0
This level II course focuses on sculpture and provides students with an overview of skills necessary for careers in the Arts, Audio/Video, and Communications Career Cluster. Students will be expected to develop an understanding of the industry with a focus on pre-production, production, post-production audio and video activities.

ART III COMMERCIAL PHOTOGRAPHY I
Grade Placement: 11-12
Prerequisite: None
Credit/ GP: 1 / Standard /Course #: F2NPC0
This course is designed for students who have been successful in Art I and are seriously interested in developing further skills in a particular area.

ART III COMMERCIAL PHOTOGRAPHY II
( may be taken for dual credit)
Grade Placement: 11-12
Prerequisite: Art II Photography
Credit/ GP: 1 / Standard /Course #: F3PFC0
Students will be expected to develop an advanced understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs. Curriculum includes advanced features of a digital single lens reflex camera (DSLR), studio lighting equipment, and photo editing software (Adobe Lightroom and Photoshop). Students will further explore careers in commercial photography, deliver visual presentations, display proficiencies in photo editing, and complete professional quality "real world" photography assignments.

AUDIO/VIDEO PRODUCTION I
Grade Placement: 10-12
Prerequisite: Selection
Credit/ GP: 2 / Standard /Course #: J2NA0
Students will be expected to develop advanced knowledge and skills needed for success in the Arts, Audio/Video technology and Communications Career Cluster. Students will be expected to develop an understanding of the industry with a focus on pre-production, production, post-production audio and video activities.

AUDIO/VIDEO PRODUCTION II
Grade Placement: 10-12
Prerequisite: Selection
Credit/ GP: 2 / Standard /Course #: J2NA0
Students will be expected to develop advanced knowledge and skills needed for success in the Arts, Audio/Video technology and Communications Career Cluster. Students will be expected to develop an understanding of the industry with a focus on pre-production, production, post-production audio and video activities.

AUDIO/VIDEO PRODUCTION III
Grade Placement: 11-12
Prerequisite: None
Credit/ GP: 1 / Standard /Course #: CGN000
This course covers all aspects of photography and is designed for students who have been successful in Art I and are seriously interested in developing further skills in a particular area.

ARTS, AUDIO/VIDEO TECH. & COMMUNICATIONS

ANIMATION I
Grade Placement: 10-12
Prerequisite: None
Credit/ GP: 1 / Standard /Course #: ANA000
Prerequisite: Selection
Credit/ GP: 2 / Standard /Course #: J2NA0
This course is designed for students capable of college level performance. Two drawings (any level) and acceptable AP Portfolio scores. must be submitted and approved. Many colleges grant college credit for approved AP Portfolio scores.

ANIMATION II
Grade Placement: 11-12
Prerequisite: Recommended Principles of Law, Public Safety, Corrections and Security
Credit/ GP: 1 / Standard /Course #: C9NPL0
This level III course focuses on a broad variety of design issues, including proficiency in graphic design, photography, collage, painting, etc. This course is designed for students capable of college level performance. Two art examples and the Art II teacher recommendation/contract form must be submitted and approved. Many colleges grant college credit for acceptable AP Portfolio scores.

AP ART III - 3-D DESIGN
Grade Placement: 10-12
Prerequisite: Samples/ Recommendation Credit/ GP: 1 / Weighted /Course #: F3A3D0
This level III course focuses on drawing a broad variety of 3 D designs. This course is designed for students capable of college level performance. Two art examples and the Art II teacher recommendation/contract form must be submitted and approved. Many colleges grant college credit for acceptable AP Portfolio scores.

ART II DRAWING
Grade Placement: 10-12
Prerequisite: Art I
Credit/ GP: 1 / Standard /Course #: F2NDR0
This level II course places an emphasis on drawing techniques using various media. Level II courses are designed for students who have been successful in Art I and are seriously interested in developing further skills in a particular area.

ART II PAINTING
Grade Placement: 10-12
Prerequisite: Art I
Credit/ GP: 1 / Standard /Course #: F2NPA0
This level II course places emphasis on painting techniques using various media and surfaces. Level II courses are designed for students who have been successful in Art I and are seriously interested in developing further skills in a particular area.

ART II SCULPTURE
Grade Placement: 10-12
Prerequisite: Art I
Credit/ GP: 1 / Standard /Course #: F2NSC0
This level II course focuses on sculpture and provides students with an overview of skills necessary for careers in the Arts, Audio/Video, and Communications Career Cluster. Students will be expected to develop an understanding of the industry with a focus on pre-production, production, post-production audio and video activities.

ART III COMMERCIAL PHOTOGRAPHY I
Grade Placement: 11-12
Prerequisite: Art I or History of Art AP
Credit/ GP: 2 / Standard (Fall and Spring term)
Course #: CPNF60/CPNAS60
Marketing Dynamics is a co-op program where students gain knowledge and skills that help them to be proficient in one or more of the marketing functional areas associated with distribution, financing, marketing information management, pricing, product planning, promotion, purchasing, risk management, and selling skills needed to help customers make satisfying buying decisions and to solve marketing problems. A student must work a minimum of 15 hours per week, be 16 years of age, maintain a good grade average, and commit to a total Fall/Spring course.

ART III COMMERCIAL PHOTOGRAPHY II
( may be taken for dual credit)
Grade Placement: 11-12
Prerequisite: Art II Photography
Credit/ GP: 1 / Standard /Course #: F3PFC0
Students will be expected to develop an advanced understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs. Curriculum includes advanced features of a digital single lens reflex camera (DSLR), studio lighting equipment, and photo editing software (Adobe Lightroom and Photoshop). Students will further explore careers in commercial photography, deliver visual presentations, display proficiencies in photo editing, and complete professional quality "real world" photography assignments.

AUDIO/VIDEO PRODUCTION I
Grade Placement: 10-12
Prerequisite: Selection
Credit/ GP: 2 / Standard /Course #: J2NA0
Students will be expected to develop advanced knowledge and skills needed for success in the Arts, Audio/Video technology and Communications Career Cluster. Students will be expected to develop an understanding of the industry with a focus on pre-production, production, post-production audio and video activities.

AUDIO/VIDEO PRODUCTION II
Grade Placement: 10-12
Prerequisite: Selection
Credit/ GP: 2 / Standard /Course #: J2NA0
Students will be expected to develop advanced knowledge and skills needed for success in the Arts, Audio/Video technology and Communications Career Cluster. Students will be expected to develop an understanding of the industry with a focus on pre-production, production, post-production audio and video activities.

AUDIO/VIDEO PRODUCTION III
Grade Placement: 11-12
Prerequisite: None
Credit/ GP: 1 / Standard /Course #: CGN000
This course covers all aspects of photography and is designed for students who have been successful in Art I and are seriously interested in developing further skills in a particular area.

ART III COMMERCIAL PHOTOGRAPHY I
Grade Placement: 11-12
Prerequisite: None
Credit/ GP: 1 / Standard /Course #: F2NPC0
This course is designed for students who have been successful in Art I and are seriously interested in developing further skills in a particular area.

ART III COMMERCIAL PHOTOGRAPHY II
( may be taken for dual credit)
Grade Placement: 11-12
Prerequisite: Art II Photography
Credit/ GP: 1 / Standard /Course #: F3PFC0
Students will be expected to develop an advanced understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs. Curriculum includes advanced features of a digital single lens reflex camera (DSLR), studio lighting equipment, and photo editing software (Adobe Lightroom and Photoshop). Students will further explore careers in commercial photography, deliver visual presentations, display proficiencies in photo editing, and complete professional quality "real world" photography assignments.
**HOSPITALITY AND TOURISM**

**PRINCIPLES OF HOSPITALITY AND TOURISM**
Grade Placement: 9-10
Prerequisites: None
Credit/GP: 1/Standard Course #: C2NHT5

This course acquaints students with the operation, marketing, and development systems of the health care industry.

**HEALTH SCIENCE**

**HEALTH SCIENCE I**
Grade Placement: 12
Prerequisite: Principles of Health Science, Medical Terminology/
fundamentals of health science and knowledge related to various health careers. Students will gain hands-on experiences for continued knowledge and skill development (Clinical Rotation).

**HEALTH SCIENCE II**
Grade Placement: 10
Prerequisite: Principles of Health Science, Medical Terminology/
principles and procedures of the health care industry. This course will focus on the health skills needed to participate in a learning experience that combines classroom studies and work experience. This course provides occupationally specific opportunities for students to participate in a learning experience that combines classroom studies and work experience. This course provides occupationally specific opportunities for students to participate in a learning experience that combines classroom studies and work experience.

**PRINCIPLES OF HEALTH SCIENCE**
Grade Placement: 9-10
Prerequisite: None
Credit/GP: 1/Standard Course #: CHN000

This course provides an overview of the therapeutic, diagnostic, and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases. Course will serve as a science credit. See page 32 for course taught as dual credit.

**INTRODUCTION TO CULINARY ARTS**
Grade Placement: 10-12
Prerequisite: None
Credit/GP: 1/Standard Course #: C2NRM0

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

**CULINARY ARTS**
Grade Placement: 10-12
Prerequisite: Hotel Mgt., Travel and Tourism I or, for Lifetime Nutrition and Wellness.
Credit/GP: 2/Standard Course #: CAN1FO/CAN1SO

Culinary Arts begins with the fundamentals and principles of the art of cooking. The course covers the basics of baking and includes management and production skills and techniques.

**PRACTICUM IN CULINARY ARTS**
Grade Placement: 12
Prerequisite: Course Request and Culinary Arts- Limited Seats
Credit/GP: 2/Standard Course #: CAN200

This course provides occupational specific opportunities for students to participate in a learning experience that combines classroom instruction with industry career experiences.

**MEDICAL TERMINOLOGY**

(Pair with Lifetime Wellness and Nutrition)
Grade Placement: 10-12
Prerequisite: None
Credit/GP: 1/Standard Course #: C2NHT5

Students develop knowledge and skills that will enable them to function effectively in various positions within this multifaceted industry. This course encompasses lodging, amusement, food and beverage service. Students explore career in the nation's largest private sector employment base.

**ANATOMY AND PHYSIOLOGY**
Grade Placement: 11-12
Prerequisite: Biology and Chemistry
Credit/GP: 1/Standard Course #: S6NHA0

Students study the anatomy and physiology of the human body and the interaction of body systems for maintaining homeostasis. Course will serve as a science credit. See page 32 for course taught as dual credit.

**MEDICAL MICROBIOLOGY**
Grade Placement: 10-12
Prerequisite: Successful Completion of Biology
Credit/GP: 1/Standard Course #: C2NMM5

Students explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug-resistant organisms, and emerging diseases. Course will serve as a science credit.

**PATHOPHYSIOLOGY**
Grade Placement: 10-12
Prerequisite: Successful Completion of Biology
Credit/GP: 1/Standard Course: CNSP5

Students study anatomy and physiology in order to understand the causes of disease and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology. Course will serve as a science credit.

**WORLD HEALTH RESEARCH**
Grade Placement: 11-12
Prerequisite: None
Credit/GP: 1/Standard Course #: CNSW10

This course examines major world health problems and emerging technologies as solutions to these medical concerns. This course is designed to improve students' knowledge of the cultural, infrastructural, political, educational and technological constraints and inspire ideas for appropriate technological solutions to global medical care issues.

**PRINTING AND IMAGING TECHNOLOGY II**
Grade Placement: 11-12
Prerequisite: Printing and Imaging Technology
Credit/GP: 2/Standard Course #: CGN100

This course lays the foundation for students to participate in a learning experience that combines classroom studies and work experience. This course provides occupationally specific opportunities for students to participate in a learning experience that combines classroom studies and work experience.

**PRACTICUM IN PRINTING AND IMAGING TECHNOLOGY**
Grade Placement: 11-12
Prerequisite: Advanced Printing and Imaging Technology
Credit/GP: 2/Standard Course #: CGN200/CGN300

This course will be required to learn personal and interpersonal skills to prepare for a rapidly evolving workplace environment in order to be successful in this class. Students will be required to read and write technical material, as well as, apply mathematical, computing, communication and reasoning skills to the technology environment.

**COMPUTER MAINTENANCE I**

(may be taken for dual credit)
Grade Placement: 11-12
Prerequisite: Principles of Information Technology
Credit/GP: 1/Standard Course #: CCN100

Students will learn the skills required to become a computer maintenance technician. Students will be required to learn electrical and electronic theory, computer hardware principles, and level one components related to the installation, diagnosis, service, and repair of computer systems. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment in order to be successful in this class. Students will be required to read and write technical material, as well as, apply mathematical, computing, communication, and reasoning skills to the technology environment.

**WEB TECHNOLOGIES**
Grade Placement: 11-12
Prerequisite: None
Credit/GP: 1/Standard Course #: CNW10

Through the study of web technologies and design, the student will learn to make informed decisions, in the field of information technology. Students acquire and utilize information in electronic formats such as text, audio, video, and graphics.

**RESEARCH IN INFORMATION TECHNOLOGY**
Grade Placement: 12
Prerequisite: Any two high school technology courses such as BIM 1, BIM II, Computer Maintenance, Telecommunications and Networking.
Credit/GP: 2/Standard Course #: C1NMM0

Students will learn advanced knowledge and skills in the application of technology in order to be successful in the technology-driven society. Students will learn the concepts and skills related to networking in order to be successful in the technology-driven society. Students will learn the concepts and skills related to networking in order to be successful in the technology-driven society.

**MANUFACTURING**

**INTRODUCTION WELDING**
Grade Placement: 10
Prerequisite: None
Credit/GP: 1/Standard Course #: CWN000

Welding provides the knowledge, skills and technologies required for employment in metal technology systems. Personal clothing required, safety equipment is provided by the instructor. Lab based instruction.

**WELDING I**

(may be taken for dual credit)
Grade Placement: 11-12
Prerequisite: Welding
Credit/GP: 1/Standard Course #: CWN10

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. Lab based instruction.
Architectural Design I (may be taken for dual credit)
Grade Placement: 10-12
Prerequisite: None
Credit/GP: 1 / Standard / Course #: CWN000
Students will gain knowledge and skills specific to those needed to enter a career in architecture and construction or prepare for a foundation towards a postsecondary degree in architecture, construction science, drafting, interior design and landscape architecture.

Architectural Design II (may be taken for dual credit)
Grade Placement: 11-12
Prerequisite: None
Credit/GP: 2 / Standard / Course #: CWN100
Students gain knowledge and skills specific to those needed to enter a career in architecture and construction or prepare for a foundation towards a postsecondary degree in architecture, construction science, drafting, interior design and landscape architecture. Also, students will develop a personal interior design portfolio.

Engineering Design and Presentation
Grade Placement: 12
Prerequisite: Advanced Architectural Design
Credit/GP: 1 / Standard / Course #: CDN200
This is an uncommonly 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, students will also gain knowledge and skills in the repair, maintenance and service of vehicle systems.

Building Maintenance Technology I
Grade Placement: 11-12
Prerequisite: None
Credit/GP: 2 / Standard / Course #: CBNS030
Students will transfer academic skills to design electronic components in a project-based environment. Students will build prototypes or use simulation to test their designs.

Science, Technology, Engineering, and Mathematics

Robotics I
Grade Placement: 10-12
Prerequisite: Robotics I
Credit/GP: 1 / Standard / Course #: CBNT000
Students will learn to apply engineering principles and technical skills to troubleshooting, repair and modify electronic components and equipment in a project-based environment.

Robotics II
Grade Placement: 10-12
Prerequisite: Robotics I
Credit/GP: 1 / Standard / Course #: CBNT000
Students will explore artificial intelligence and programming in the robotics and automation industry. Through implementation of the design process, students will transfer academic skills to component design using robotics hardware and software.

Engineering Design and Presentation
Grade Placement: 12
Prerequisite: Advanced Architectural Design
Credit/GP: 1 / Standard / Course #: CDN200
This is an uncommonly 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, students will also gain knowledge and skills in the repair, maintenance and service of vehicle systems.

Building Maintenance Technology I
Grade Placement: 11-12
Prerequisite: None
Credit/GP: 2 / Standard / Course #: CBNS030
Students will learn to apply engineering principles and technical skills to troubleshooting, repair and modify electronic components and equipment in a project-based environment.

Science, Technology, Engineering, and Mathematics

Robotics I
Grade Placement: 10-12
Prerequisite: Robotics I
Credit/GP: 1 / Standard / Course #: CBNT000
Students will explore artificial intelligence and programming in the robotics and automation industry. Through implementation of the design process, students will transfer academic skills to component design using robotics hardware and software.

Robotics II
Grade Placement: 10-12
Prerequisite: Robotics I
Credit/GP: 1 / Standard / Course #: CBNT000
Students will explore artificial intelligence and programming in the robotics and automation industry. Through implementation of the design process, students will transfer academic skills to component design using robotics hardware and software.

Engineering Design and Presentation
Grade Placement: 12
Prerequisite: Advanced Architectural Design
Credit/GP: 1 / Standard / Course #: CDN200
This is an uncommonly 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, students will also gain knowledge and skills in the repair, maintenance and service of vehicle systems.