Career & Technology

It is the policy of BCISD not to discriminate on the basis of race, color, national origin, sex or disability in its vocational programs, services or activities as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 504 of Rehabilitation Act of 1973, as amended.

Business and Industry Endorsement
Agriculture

Principles of Agriculture Food and Natural Resources (PAFNR) **Credit: 1**

This basic course is designed to provide an introduction to global agriculture. The course includes instructional units in agricultural career development, leadership, communications, personal finance and mechanized agriculture. This basic course is designed to enhance the understanding of agricultural science. The course includes soils, plants, animals, agricultural construction, food science, supervised agricultural experience programs and leadership. Grade: 9 – 12

Agricultural Mechanics and Metal Technology *prerequisites: PAFNR* **Credit: 1**

To be prepared for careers in agricultural power, structural, and technical systems, students need to attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings. This course is designed to develop an understanding of agricultural mechanics relating to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete and metal working techniques. Grade 10 – 12

Advanced Animal Science *prerequisites: PAFNR, Livestock Prod.* **Credit: 1**

Prerequisite: Minimum of one credit from courses in Agriculture, Food and Natural Resources cluster.

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. Scientific inquiry, science and social ethics and science models will also be discussed. Grade: 11 - 12 (Note: Advanced Animal Science can count as a science credit)

Small Animal Management *prerequisites: PAFNR* **Credit: .5 Fall**

To be prepared for careers in the field of animal science, students need to enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills in a variety of settings. Suggested small animals which may be included in the course of study include, but are not limited to, small mammals, amphibians, reptiles, avian, dogs, and cats. Grade: 10 – 12

Equine Science *prerequisites: PAFNR* **Credit: .5 Spring**

To be prepared for careers in the field of animal science, students need to enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. Suggested animals which may be included in the course of study include, but are not limited to, horses, donkeys, and mules. Grade: 10 – 12

Principles and Elements of Floral Design *prerequisites: PAFNR* **Credit: 1**

To be prepared for careers in floral design, students need to attain academic skills and knowledge as well as technical knowledge and skills related to horticultural systems and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply and transfer their knowledge and skills and technologies in a variety of settings. This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Grade: 9 – 12 (Note: Floral Design can count as a fine arts credit)

Business and Industry Endorsement
Agriculture continued

Wildlife Fisheries and Ecology Management *prerequisites: PAFNR* **Credit: 1**

To be prepared for careers in natural resource systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the management of game and non-game wildlife species, fish, and aqua crops and their ecological needs as related to current agricultural practices. Grade: 10 - 12

Livestock Production *prerequisites: PAFNR* **Credit: 1**

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

Agricultural Structure Design/Lab *prerequisites: PAFNR, Ag. Mech, Welding I/II with approval* **Credit: 2**

To be prepared for careers in mechanized agriculture and technical systems, students attain knowledge and skills related to agricultural facilities design and fabrication. Students explore career opportunities, entry requirements, and industry expectations. To prepare for success, students reinforce, apply, and transfer their academic knowledge and technical skills in a variety of settings. Grade: 11 – 12 (Articulated with WCJC for juniors and seniors) (Note: $5.00 lab fee and welding certification test available)

Mathematical Applications in Agriculture, Food, and Natural Resources *prerequisites: PAFNR* **Credit: 1**

You will gain hands-on skills in math using agriculture as the tool. Work in the shop and learn how math and engineering work together to build metal and wood products. Learn how the food industry applies math on a daily basis to figure how much food products are sold and at what price. This course will incorporate algebra, geometry and data analysis for the various Agriculture industries. Grade: 11-12 (Note: Mathematical Applications in Agriculture, Food, and Natural Resources can count as a math credit)

Business and Industry Endorsement
Information Technology

Digital and Interactive Media **Credit: 1**

Mobile Application Development will foster students' creativity and innovation by presenting opportunities to design, implement, and deliver meaningful projects using mobile computing devices. Students will collaborate with one another, with their instructor, and with various electronic communities to solve problems presented throughout the course. Data analysis will include the identification of task requirements, planning search strategies, and the use of software development concepts to access, analyze, and evaluate information needed to program mobile devices By using software design knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create a solution, and evaluate the results. Students will learn to become good digital citizens by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of mobile application development through the study of development platforms, programming languages, and software design standards. Grade: 10 - 12

Principles of Audio Video Technology - Media Technology **Credit: 1**

Intro to Media Technology is a fun and exciting course designed to provide hands-on training in video and television production. This course will provide a background on television production history and includes hands-on basic training in the use of camera operation, direction, lighting, sound and editing. Students will write, direct, produce and edit their own productions and will be prepared for the more challenging productions created in Audio Video Production and Advanced Audio Video Production. Grade: 10 - 12

Audio Video Production/Lab I prerequisites*: Principles of Audio Video Technology with passing final avg.* **Credit**: **2**

The course offers the student an opportunity to develop skills in a variety of areas which include: scripting storylines, writing news copy, developing plot lines for production videos, camera operation with shoulder-mount digital camcorders, computer editing using Adobe Creative Suite. Additional projects may include production of daily/weekly newscasts and additional promotional videos for Bay City High School and Bay City ISD. All elements of video production are covered during the year.
Grade Level: 10-12

Business and Industry Endorsement
Information Technology continued

Audio Video Production/Lab II *prerequisites: Audio Video Production I* **Credit: 1**

The course offers the student an opportunity to develop skills in a variety of areas which include: scripting storylines, writing news copy, developing plot lines for production videos, camera operation with shoulder-mount digital camcorders, computer editing using Adobe Creative Suite. Additional projects may include production of daily/weekly newscasts and additional promotional videos for Bay City High School and Bay City ISD. All elements of video production are covered during the year.
Grade Level: 11-12

Animation (2019-2020) **Credit: 1**

Careers in animation span all aspects of motion graphics. Within this context, in addition to developing technical 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 history and techniques of the animation industry. Grade Level: 10-12

Graphic Design & Illustration (2018-2019) **Credit: 1**

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within the context, in addition to developing 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 fundamental elements and principles of visual art and design. Grade Level: 10-12

Business and Industry Endorsement
Business Management & Administration/Finance

Principles of Business, Marketing, and Finance **Credit: 1**

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies 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. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing, and finance. Grade: 9-10

Business Information Management I **Credit: 1**

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and in the workplace and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software. Grade Level: 9-12

Business Management **Credit: 1**

You need a strong foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent managers, employees, and entrepreneurs. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate management decisions.
Grade: 11-12

Money Matters **Credit: 1**

Students will investigate global economics with emphasis on the free enterprise system and its impact on consumers and businesses. Students apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to set long-term financial goals based on those options. Students will determine methods of achieving long-term financial goals through investment, tax planning, asset allocation, risk management, retirement planning, and estate planning. Grades: 10-12

Accounting I **Credit: 1**

Accounting introduces general accounting concepts, principles and procedures and emphasizes the need for i\financial records. This course develops the skills, knowledge and attitudes necessary to conduct personal business or to further an education in the field of business or accounting. Math skills are necessary. This course would be considered great preparation for those considering a business major in college. Grade: 10 – 12. (Note: Accounting is articulated with WCJC for grades 11-12)

Business and Industry Endorsement
Business Management & Administration/Finance continued

Career Preparation I students must provide transportation **Credit: 2**
Extended Career Preparation I* **Credit: 1**

Career Preparation provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. This instructional arrangement should be an advanced component of a student's individual program of study. Students are taught employability skills, which include job-specific skills applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Career preparation is relevant, rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.
*Extended Career Preparation I will be taken concurrently with Career Preparation I. Grade: 11 – 12

Career Preparation II *prerequisite: Career Preparation I* students must provide transportation **Credit: 2**
Extended Career Preparation II* **Credit: 1**

Career Preparation II develops essential knowledge and skills through classroom technical instruction and on-the-job training in an approved business and industry training area. Students will develop skills for lifelong learning, employability, leadership, management, work ethics, safety, and communication as a group; however, each student will have an individual training plan that will address job-specific knowledge and skills. Approved training sponsors will provide paid occupational training for a student. The training sponsor will assist the teacher in providing the necessary knowledge and skills for the student's specific career preparation.
*Extended Career Preparation II will be taken concurrently with Career Preparation II. Grade: 12

Public Services Endorsement
Hospitality & Tourism

Culinary Arts **Credit: 2**

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification, a Texas culinary specialist certification, or any other appropriate industry certification. This course may be offered as a laboratory-based or internship course. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations. Grade: 10 – 12

Business and Industry Endorsement
Manufacturing
Architecture & Construction

Principles of Manufacturing **Credit: 1**

In Principles of Manufacturing, students gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. Knowledge and skills in the proper application of principles of manufacturing, the design of technology, the efficient production of technology, and the assessment of the effects of technology prepare students for success in the modern world. The study of technology allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing setting. In addition to general academic/technical knowledge and skills, students gain an understanding of career opportunities available in manufacturing and what employers require to gain/ maintain employment in these careers. Grade: 9 – 12

Principles of Construction **Credit: 1**

Principles of Architecture and Construction will provide an overview to the various fields of architecture, interior design, construction science, and construction technology. Achieving proficiency in decision making and problem solving is an essential skill for career planning and lifelong learning. Students use self-knowledge, educational, and career information to set and achieve realistic

career and educational goals. Job-specific, skilled training can be provided through the use of training modules to identify career goals in trade and industry areas. Grade: 9-12

Construction Management *(offered 2017-2018)* **Credit: 2**

In Construction Management, students gain knowledge and skills specific to those needed to enter the work force as carpenters or building maintenance supervisors or build a foundation toward a postsecondary degree in architecture, construction science, drafting, or engineering. Construction Management includes the knowledge of the design techniques and tools related to the management of architectural and engineering projects. Grade: 10 – 12

Architectural Design *(offered 2016-2017)* *pre-requisite: Algebra1 and Geometry* **Credit: 1**

Students gain knowledge and skills specific to those needed to enter a career in architecture and construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, and landscape architecture. Architectural design includes the knowledge of the design, design history, techniques, and tools related to the production of drawing, renderings, and scaled models for commercial or residential architectural purposes. 11- 12 (Articulated with WCJC for 11th and 12th grade)

Welding *pre-requisite: Principles of Manufacturing* **Credit: 2**

Instruction is designed to provide job-specific training for entry-level employment in welding careers. First-year instruction includes blueprint reading, cutting and welding with oxygen and gas fuels. Arc welding will be introduced. Second year instruction enhances job-specific training for employment in welding careers. Students are encouraged take "Drafting Technology" either before or concurrent with welding class. Grade: 11 – 12

Welding II/Lab *pre-requisite: Welding* **Credit: 3**

Instruction is designed to provide job-specific training for entry-level employment in welding careers. First-year instruction includes blueprint reading, cutting and welding with oxygen and gas fuels. Arc welding will be introduced. Second year instruction enhances job-specific training for employment in welding careers. Students are encouraged take "Drafting Technology" either before or concurrent with welding class. Grade: 11 – 12

Science, Technology, Engineering & Mathematics Endorsement

Principles of Applied Engineering **Credit: 1**

This course will provide an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will use a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will have an understanding of the various fields and will be able to make informed decisions regarding a coherent sequence of subsequent courses. Further, students will have worked on a design team to develop a product or system. Students will use multiple software applications to prepare and present course assignments. Grade 9-10

Engineering Design & Presentation **Credit: 1**

Students will learn mechanical and architectural drafting using both instrument drawing and computer aided drafting (CAD). Students will learn orthographic projection, isometric and section drawing as well as, developing basic floor plans and elevations. Class emphasizes reading scales using equipment and language used by drafts persons, engineers and contractors. This course does not satisfy the Technology Applications requirement. Grade: 10 – 12 (*this is a Tech Prep Articulated Course that could become college credit.* See definitions)

Robotics and Automation *prerequisite: Engineering and Design Presentation* **Credit: 1**

Students enrolled in this course will demonstrate knowledge and skills necessary for the robotic and automation industry. Through implementation of the design process, students will transfer advanced academic skills to component designs in a project-based environment. Students will build prototypes or use simulation software to test their designs. Students explore career opportunities, employer expectations, and educational needs in the robotic and automation industry. Grade: 11-12

Science, Technology, Engineering & Mathematics Endorsement continued

Engineering Design and Problem Solving **Credit: 1**

Engineering design is the creative process of solving problems by identifying needs and then devising solutions. This solution may be a product, technique, structure, process, or many other things depending on the problem. Science aims to understand the natural world, while engineering seeks to shape this world to meet human needs and wants. Engineering design takes into consideration limiting factors or "design under constraint." Various engineering disciplines address a broad spectrum of design problems using specific concepts from the sciences and mathematics to derive a solution. The design process and problem solving are inherent to all engineering disciplines. Engineering Design and Problem Solving reinforces and integrates skills learned in previous mathematics and science courses. This course emphasizes solving problems, moving from well-defined toward more open ended, with real-world application. Students apply critical-thinking skills to justify a solution from multiple design options. Additionally, the course promotes interest in and understanding of career opportunities in engineering. This course is intended to stimulate students' ingenuity, intellectual talents, and practical skills in devising solutions to engineering design problems. Students use the engineering design process cycle to investigate, design, plan, create, and evaluate solutions. At the same time, this course fosters awareness of the social and ethical implications of technological development. Grade: 11-12

Principles of Technology *pre-requisite: Algebra 1 and a science credit* **Credit: 1**

Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Various systems will be described in terms of space, time, energy, and matter. Students will study a variety of topics that include laws of motion, conservation of energy, momentum, electricity, magnetism, thermodynamics, and characteristics and behavior of waves. Students will apply physics concepts and perform laboratory experimentations for at least 40% of instructional time using safe practices. Grade: 10-12

Business and Industry Endorsement Transportation, Distribution & Logistics

Principles of Transportation Systems **Credit: 1**

Students gain knowledge and skills in the safe application, design, production, and assessment of products, services, and systems. This knowledge includes the history, laws and regulations, and common practices used in the logistics of warehousing and transportation systems. Students should apply knowledge and skills in the application, design, and production of technology as it relates to the transportation, distribution, and logistics industries. This course allows students to reinforce, apply, and transfer their academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings.

Small Engine Technology **Credit: 1**

This course is designed to provide training for entry-level employment in the small or marine engine technology industry. Engine Technology includes knowledge of the function, diagnosis, and service of the systems and components of all types of small and marine engines such as lawn mowers, motorcycle, irrigation, and in-board and out-board engines. Instruction includes the repair and service of cooling, air, fuel, lubricating, electrical, ignition, and mechanical systems and engine overhauls. In addition, students will receive instruction in safety, academic, and leadership skills as well as career opportunities. Grade: 10 - 12

Automotive Technology I **Credit: 2**

Instruction is designed to provide job-specific training for entry-level employment in the automotive engine repair and service career field. First-year instruction emphasizes use of repair manuals, service and/or repair of basic automobile components; fuel systems, engines, emission controls, power trains, chassis, electrical systems, brakes, hearing and air conditioning. Second-year instruction is designed to enhance job-specific employment training for in automotive engine repair and service fields. Grade: 11 - 12

Automotive Technology/Lab II *Prerequisite: Automotive Technology I* **Credit: 3**

Instruction is designed to provide job-specific training for entry-level employment in the automotive engine repair and service career field. First-year instruction emphasizes use of repair manuals, service and/or repair of basic automobile components; fuel systems, engines, emission controls, power trains, chassis, electrical systems, brakes, hearing and air conditioning. Second-year instruction is designed to enhance job-specific employment training for in automotive engine repair and service fields. Grade: 12

Public Service Endorsement
Health Science

Principles of Health Science **Credit: 1**

This course is designed to develop knowledge of the wide variety of health careers available, basic anatomy and physiology of the human body, human growth and development, medical terminology and CPR certification. It prepares the student for transition to clinical experiences in health care. Grade: 9 – 11

Health Science Theory/Clinic *prerequisite: Principles of HS* **Credit: 2**

This course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will have hands-on experiences for continued knowledge and skill development. Training is provided with businesses and industries where the student is provided the opportunity to explore a variety of health careers in a number of area training sites. Patient care skills are taught as well as safety, first aid, effective communication skills, ethical and legal responsibilities, teamwork, leadership and job-seeking skills. Grade: 10 – 12

Practicum in Health Science/Extended Practicum *prerequisite: Health Science Theory & Clinic* **Credit: 2/3**

The Practicum is designed to give students practical application of previously studied knowledge and skills. This occupationally specific course is designed to provide knowledge and skills for certification or licensure in an allied health career. ***Seniors may opt to complete certified pharmacy technician training during class time in the spring. This training costs $299 and enables the student to take the state certification exam (additional expense) upon high school graduation***. While going to area health care facilities, all students develop advanced skills and knowledge necessary for employment in the health care industry or for continued formal education in health careers. Grade: 11-12

Practicum in Health Science I *prerequisite: Practicum in Health Science* **Credit: 2**

The Practicum is designed to give students practical application of previously studied knowledge and skills. This occupationally specific course is designed to provide knowledge and skills for certification or licensure in an allied health career. ***Seniors may opt to complete certified pharmacy technician training during class time in the spring. This training costs $299 and enables the student to take the state certification exam (additional expense) upon high school graduation***. While going to area health care facilities, all students develop advanced skills and knowledge necessary for employment in the health care industry or for continued formal education in health careers. Grade: 12

Pharmacology **Credit: 1**

This course is designed to train students to pass the Pharmacy Technician Certification Board exam to obtain certification as a Certified Pharmacy Technician (CPht). A CPhT is an individual who works under the supervision of a licensed pharmacist by assisting in pharmacy activities not requiring the judgment of a pharmacist. This is a rich multi-media learning experience that virtually places the student in a real-world training environment. The lesson plan walks the student systematically through every topic required for certification such as basic terms, federal law affecting the pharmacy industry, various types of drugs, prescriptions, medication dosage forms, medical devices, drug interactions on the body's major systems, preparation procedures, pharmacy calculations, day-to-day pharmacy operations, and an overview of insurance claims. The cost per student is $299. Upon course completion and high school graduation, students may opt to take the state certification exam for an additional $130. Must be 18 years of age and not be convicted of a felony. This course is an ONLINE program through Pass Assured facilitated by BCHS staff. Grade: 12

Medical Terminology *prerequisite: sincere interest in pursuing a health care career* **Credit: 1**

This course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, combining forms and singular and plural forms, plus medical abbreviations and acronyms. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology and pathophysiology. Grade: 9 - 12

Project-Based Research HS / Certified Nurse Assistant *prerequisite: Medical Terminology* **Credit: 1**

This course is designed to train students as a nurse aide through the National Nurse Aide Assessment Program. The certification examination is to set the standards of care in order to improve the quality of care in long term care facilities and to define the training and examination standards for nurse aides who work in long term care facilities. BCHS will partner with Matagorda Nursing and Rehabilitation Center to facilitate student training. 60 hours of classroom training and 40 hours of hands-on resident care in a nursing facility under the direct supervision of a licensed nurse will be obtained. The cost per student for the examination fee is $86. Grade: 11-12 (Note: must turn 18 on or before completion of course in order to test)

Public Service Endorsement
Health Science continued

Emergency Medical Technician – Basic Level *recommended: Anatomy/Physiology and med term* **Credit: 1**

Basic instruct students to meet and exceed standard knowledge needed to be a valid Emergency Medical Technician. The curriculum includes skills necessary for a student to provide entry level emergency medical care, life support, and ambulance service. This program is a Dual credit program that partners with WCJC. Students will incur a uniform cost of approximately $200. Upon course completion and high school graduation, students may opt to take the state certification exam for an additional cost. Student would receive EMT-B certification if state test is past. Must be 18 years of age and not be convicted of a felony. Grade: 12

Anatomy and Physiology *prerequisites: Biology I and Chemistry I* **Credit: 1**

Students will study human biology topics contained in the course outline provided by WCJC. Emphasis will be on biochemistry, cellular processes, integumentary system, skeletal system, muscular system, nervous system, endocrine system, and clinical applications. Students participate in 50 % or more hands-on and laboratory activities. Grade: 11-12

Public Service Endorsement
Human Services

Interpersonal Studies **Credit: .5**

This course examines how the relationships between individuals and among family members significantly affect the quality of life. Students use knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers related to counseling and mental health services. Grade: 9-10

Principles of Human Services **Credit: 1**

This comprehensive laboratory course is designed to address a broad range of knowledge and skills related to personal development and management, promotion of strong families and preparation for adult roles. Content includes a focus on interpersonal skills; decision-making; promotion of family strengths and well-being; developing positive relationships with peers; child development and care; and clothing selection and maintenance. Other studies address nutrition and dietary practices; food selection and preparation; budgeting and consumer-buying practices; and management of family housing needs. Influences of societal and technological changes, career options and the management of multiple family community and wage earner roles are included. This course is a prerequisite for culinary arts. *** All students required to take this course for exposure to CPR for HB5 requirement**. Grade: 9-12

Child Development **Credit: 1**

This technical laboratory course is designed to focus on knowledge and skills related to the development, care, guidance and protection of children including those with special needs. Topics include characteristics of quality child care, career options related to the care and education of children and the management of multiple community and family roles. Grade: 9 – 12 (Articulated with WCJC for juniors and seniors)

Intro to Cosmetology **Credit: 1**

Students explore areas such as bacteriology, sterilization and sanitation, hair styling, manicuring, shampooing and the principles of hair cutting, hair styling, hair coloring, skin care, and facial makeup. The student researches careers in the personal care services industry. To prepare for success, students must have skills relative to this industry, as well as academic knowledge and skills. Students may begin to earn clock hours toward state licensing requirements Grade10

Cosmetology I *prerequisite: introduction course, application, interview/approval* **Credit: 2**

Principles of Cosmetology Design & Color Theory* **Credit: 1**

This course is a planned 1500 clock hour, two-year sequence of classroom and lab instruction. One thousand (1,000) laboratory clock hours, plus 500 academic hours are awarded upon completion of the 1000 lab hours. Instruction is designed to provide job-specific training for entry-level employment in cosmetology careers and meets the Texas Cosmetology Commission requirements for licensure upon passing the state exam.

*Principles of Cosmetology Design and Color Theory will be taken concurrently with Cosmetology I. Grade: 11

Public Service Endorsement
Human Services continued

Cosmetology II *prerequisite: Cosmetology I* **Credit: 2**

This course is a planned 1500 clock hour, two-year sequence of classroom and lab instruction. One thousand (1,000) laboratory clock hours, plus 500 academic hours are awarded upon completion of the 1000 lab hours. Instruction is designed to provide job-specific training for entry-level employment in cosmetology careers and meets the Texas Cosmetology Commission requirements for licensure upon passing the state exam. Grade: 12 (*After successful completion of Cosmetology II, students will have a testing opportunity for certification*

Public Services Endorsement
Education and Training

Principles of Education and Training and Human Growth and Development will be offered alternating years

Principles of Education in Training (2018-2019) **Credit: 1**

This course is designed to introduce learners to the various careers available within the education and training career cluster. Students use self-knowledge and educational and career information to analyze various careers within the education and training career cluster. Students will also gain an understanding of the basic knowledge and skills essential to careers within the education and training career cluster. Students will develop a graduation plan that leads to a specific career choice in the student's interest area. Grade: 9-12

Human Growth and Development (2019-2020) *prerequisite: Principles of Ed & Training* **Credit: 1**

Human Growth and Development is an examination of human development across the lifespan with emphasis upon research, theoretical perspectives, and common physical, cognitive, emotional, and social developmental milestones. The course covers material that is generally taught in a postsecondary, one-semester introductory course in developmental psychology or human development. Grade: 10-12

Practicum in Human Services (PALS II) *pre-requisite: teacher recommendation w/approval* **Credit: 2**

Students who have been through PALS and received training to help peers solve problems, whether they involve school, home or family issues will continue to serve as mentors to elementary school children will continue in a practicum setting. Students should be able to travel off campus for various supervised activities. Students may be dismissed from PALS if criteria are not maintained. Grade: 12

Other CTE Electives

Forensic Science *pre-requisite: successful completion of biology and chemistry* **Credit: 1**

Forensic Science is an introductory course in which students will have the opportunity to explore how scientific principles are used in analyzing physical evidence found at crime scenes and to be introduced to the wide array of career choices in forensics. The fundamental objective is to teach the basic processes and principles of scientific thinking to apply them to solving problems that are related not only to science but to all disciplines. The focus will be to introduce students to some of the specialized fields of forensic science, the principles of science and technology upon which they are based, and the application of these principles to various analyses of crime scene evidence. This course will make science real for the CSI generation. Grades: 11 - 12

Professional Communication (aka: *Speech*) **Credit: .5**

A class you can talk in! This graduation requirement focuses on building communication through individual and group presentations. It emphasizes self and peer evaluation and support in various communication activities, including informative and persuasive speaking. Grade: 9 – 12 (Note: AVID II and Debate are the ***ONLY*** classes that can substitute for this course)

Languages

Spanish I **Credit: 1**

This is an introductory course in Spanish, which stresses the four basic skills of language learning: listening, speaking, reading and writing. Students will recognize and comprehend general content of a conversation using basic vocabulary. Grammatical structures are taught through dialogue. Cultural similarities, as well as differences with our culture, are part of the program in this class. Grade: 9 - 11

Spanish II **Credit: 1**

Students will expand and reinforce the vocabulary and grammatical structures studied in Spanish I. Dialogues of greater length will be used along with ones produced by the students. Reading comprehension as well as writing and communication of ideas are required in this level. The use of English will be allowed only for clarification. There IS a continuation of the study of the culture of Spanish speaking countries. Grade: 10-12

Spanish III **Credit: 1**

Students at this level should have attained sufficient competence in listening and speaking skills so that many classroom activities can be conducted in Spanish. Extensive reading and writing will receive greater attention than in the first two levels. Cultural selections are included. Attention and stress are placed on expression of original ideals through class discussion. Grade: 10 – 12

Spanish III (Pre AP) *prerequisite: Spanish II & teacher recommendation* **Credit: 1**

This honors level course will offer the serious student of Spanish and the native speaker to engage further in the four components of the language – listening, speaking, reading, and writing. More classroom activities will be held in Spanish and more emphasis will be placed on extensive reading and writing, which will progress from direct to free composition. Review grammar materials will be presented on structures considered more difficult to master. Cultural selections including both prose and poetry are included. Grade: 10 – 12

Spanish IV (AP) *prerequisite: Spanish III & teacher recommendation* **Credit: 1**

A college level honors course that will expand the knowledge of the student of Spanish in all of the language components. The students will be able to comprehend formal and informal spoken Spanish. There will also be opportunity for written and oral expression, accurately and fluently. Students will be provided the opportunity to prepare for the College Board Advanced Placement Exam in May. Students should be prepared to devote several hours per week of individual study time. Grade: 10 – 12

Fundamentals of Computer Science **Credit: 1**

The technology applications curriculum has six strands based on the National Educational Technology Standards for Students (NETS•S) and performance indicators developed by the International Society for Technology in Education (ISTE): creativity and innovation; communication and collaboration; research and information fluency; critical thinking, problem solving, and decision making; digital citizenship; and technology operations and concepts. Grade: 9-12

Fine Arts

Art I **Credit: 1**

Art I is an introductory course for the expression, understanding and appreciation of art through the study of the elements and principles of design. Original artworks are created in a variety of media. A written report and art project will be completed outside of class. Grade: 9 – 12

Art II, III & IV *prerequisite: Art classes must be taken in sequence* **Credit: 1**

These courses stress an exploratory and experimental approach, with an emphasis on individual growth in freedom of expression and on individual use of art media. Original artwork includes drawing, painting, sculpture, fabric design, printmaking, jewelry, metal enameling, ceramics and commercial art. A written report and piece of artwork based on an artist's technique, along with an art project will be completed outside of class. Those students wishing to pursue a career in art are aided in the preparation of a portfolio. Grade: 10 – 12

Music I Instrument (Beginning Band) **Credit: 1**

This organization will begin to learn basic music theory and sight-reading techniques. This is a performance-oriented group and each member should expect to spend time outside the school day for practice and performing. Grade: 9 – 11

Band I, II, III & IV *prerequisite: previous band experience and instructor approval* **Credit: 1**

Band places emphasis on the refinement of instrumental skills learned in junior high band. Emphasis is places on performances including football games, parades, concerts and contests. Band begins in early August and students should expect to devote time before and after school as well as, some weekends. During the second semester, the group is divided into two bands according to ability level of the students. (Three semesters of marching band = 1 credit of PE and ½ credit of FPF)

Beginning Choir I, II, III & IV **Credit: 1**

This organization will begin to learn and continue in basic music theory and sight-reading techniques. This is a performance-oriented group and each member should expect to spend time outside the school day for practice and performing. They will be required to perform in concerts outside of the school day and will be encouraged to participate in various contests on an individual basis. Grade: 9 – 12

Advanced Choir II, III & IV *prerequisite: instructor approval* **Credit: 1**

This organization will begin to learn and continue in basic music theory and sight-reading techniques. This is a performance-oriented group and each member should expect to spend time outside the school day for practice and performing. They will be required to perform in concerts outside of the school day and will be encouraged to participate in various contests on an individual basis. Grade: 9 – 12

Show Choir I, II, III & IV *prerequisite: semester auditions & instructor approval* **Credit: 1**

This course emphasizes show choir literature, music being studied by Advanced Choir and more advanced choral ensemble literature. Appropriate choreography and dance will be taught. Students will perform with the Advanced Choir in addition to the Show Choir. This is a performance-oriented group so each member should expect to devote time outside the normal school day for practice and performing. Students will be encouraged to participate in various contests on an individual basis. Grade: 9 – 12

Music Theory AP *prerequisite: instructor approval* **Credit: 1**

This course will study music fundamentals, including Clefs, notes, rhythm values, pitch and scales. More advanced work will include chord construction chord progressions and resolutions. Students will be asked to construct specified musical examples and analyze selections from music literature. Ear training, including sight-reading will be practiced. The class will be limited to junior and senior students or others with instructor approval.

Theatre Arts I **Credit: 1**

This Fine Arts performance course will give students the opportunity to study and develop an appreciation for drama and theatre arts. Students will study acting, theatre history, improvisation and the stage. Students will audition and participate in the Showcase Theatre Festival in the fall. Grade: 9 – 12

Theatre Arts II, III & IV *prerequisite: instructor approval* **Credit: 1**

This upper level course is designed for students to further study acting and theatre appreciation applying their work to theatre competitions and play productions. Participation in the main stage play process is mandatory. Students must meet play requirements to remain in this course. Emphasis is placed on acting and theatre management. Grade: 10 – 12

Technical Theatre I, II, III, and IV *prerequisite: instructor approval* **Credit: 1**

This is a State of Texas approved course for a Fine Arts credit as per TEA graduation requirements. This course explores the different opportunities in theatre, such as sound, lighting, design, construction, costumes, and properties. Technical Theatre is more focused toward the backstage in theatre, with little to zero performance involved. To compensate, those enrolled in the class will be expected to work on all designs and labor intensive attributes of the plays and musicals performed at Bay City HS. Grade: 9 - 12

Theatre Production I-IV *prerequisite: instructor approval* **Credit: 1**

A state-approved course listed under the Fine Arts TEKS. This class will be offered 8th period only or a designated period and is limited to the One Act Play Cast. It will be offered exclusively for OAP in the spring. The UIL One-Act Play Contest will serve as an effective instructional strategy for teaching the components of the Theatre TEKS. Students may also receive this ½ credit for successful participation in a major production. The student must attend all rehearsals and successfully perform his/her duties in the production. Students must have auditioned and been cast in the One Act Play as an actor, technical crew member or Alternate to take the class in the spring or cast in a major production in the Fall to receive the Fall credit.

Debate

Oral Interpretation I, II, & III *prerequisite: instructor approval* **Credit: 1**

Students will study the oral tradition; including prose and poetry interpretation, extemporaneous speaking, impromptu and oratory speaking, storytelling and reader's theatre. Students will write and perform their own works as well as published material. Attendance at various tournaments is mandatory. Grade 9 – 12

Debate I (H) *prerequisite: instructor approval* **Credit: 1**

Students will study advanced arguments in cross-examination and Lincoln-Douglas debate. They will learn constructive argumentation, persuasive speaking, organizational skills, philosophical basics, statistical analysis and directly apply them to UIL, and forensic competitions. Tournament attendance is mandatory. Upon completion of course, student earns speech credit.
Grade: 9 – 12 .

Debate II & III (H) *prerequisite: instructor approval and Debate 1* **Credit: 1**

Students will study advanced forms of debate including cross-examination and Lincoln-Douglas. They will learn constructive argumentation, persuasive speaking, organizational skills, philosophical basics, statistical analysis and directly apply them to UIL and forensic competitions. Tournament attendance is mandatory. Courses must be taken in sequence. Grade: 10 – 12

Journalism

Yearbook I, II & III *prerequisite: teacher approval* **Credit: 1**

The first-year course is an introductory class in news writing, editing, layout techniques and meeting deadlines needed to produce a yearbook. Second and third year courses constitute a continuation and refinement of the introductory skills. The students will design the yearbook, which will be published at the end of the year. Skills in writing, advertising, marketing, management and teamwork will be developed. Grade: 10 – 12

Advanced Broadcast Journalism I, II, III **Credit: 1**

Students need to be critical viewers, consumers, and producers of media. The ability to access, analyze, evaluate, and produce communication in a variety of forms is an important part of language development. High school students enrolled in this course will apply and use their journalistic skills for a variety of purposes. Students will learn the laws and ethical considerations that affect broadcast journalism; learn the role and function of broadcast journalism; critique and analyze the significance of visual representations; and learn to produce by creating a broadcast journalism product. Grade: 10-12

Health & Physical Education

Physical Education **Credit: 1**

These courses shall include knowledge and motor skills basic to effective participation in a variety of individual, dual and team sports. Also included is the development of physical fitness and the ability to maintain this level with skills for leisure and lifetime sports activities. Grade: 9 – 12

Athletics *prerequisite: coach approval prior to registration* **Credit: 1**

Bay City High School offers competitive athletics for both boys and girls. All freshman students interested in team sports will be assigned to 9th grade athletics. Students entering high school 2009-2010 and beyond may earn up to four athletic credits toward graduation.

Dance I, II, III & IV (Aristocats Dance Team) *prerequisite: spring audition / selection* **Credit: 1**

The Aristocats Dance Team performs at football games, parades and community functions. They attend contests and a dance concert at the end of the year. Students should expect to devote time outside of the normal school day for practice, performance and competitions throughout the year. Credits may be substituted for PE and Fine Arts credit. (Fall semester = ½ PE credit) (Spring semester = ½ Fine Arts credit)

Community and School Service

Peer Assistance & Leadership (PALs) *prerequisite: teacher recommendation w/approval* **Credit: 1**

Students will be trained to help peers solve problems, whether they involve school, home or family issues. They will serve as mentors to area elementary school children. Students should be able to travel off campus for various supervised activities. Students may be dismissed from PALs if criteria are not maintained. Grade: 11- 12

Student Aide *prerequisite: assistant principal approval* **Credit: 1**

Students will be assigned to work in supervised campus offices or classrooms for one period each day. Grades and attendance will be treated as any other class. Grade: 12

********This course is for local credit only and does not count for UIL eligibility, GPA or graduation. ********

Off Campus (periods 1, 7, or 8) **Credit: 0**

This is offered to students who have not had to recover credits through the ACE program and have passed all Exit Level Tests. Students are required to leave campus immediately following their last scheduled class. Consequences will be the loss of this Off Campus option. Grade: 12

Other Electives

Psychology **Credit: .5 Spring**

This elective course will give students the opportunity to study individual and group psychology. Students will learn how methods and theories of psychologists are applied to analyzing human behavior. Students will participate in psychological experiments that will allow them to make inferences about behavior and attitudes. Good writing skills are necessary and students should be able to analyze data, theories and a variety of materials. Grade: 11 – 12

Sociology **Credit: .5 Fall**

This is an elective course that gives students an opportunity for systematic study of the individual, groups and social institutions. Content includes concepts such as social stratification and mobility, cultural conflict, change and contract, structure and functions of social institutions and the role of mores, traditions and folkways in a society. Grade: 11 – 12