

Galveston ISD



Career & Technical Education

Handbook

Ball High School

2021-2022

<https://www.galvestonisdcte.com/>



Texas CTE is an education initiative designed to prepare students for a lifetime of success. It allows students to achieve excellence by preparing them for secondary and postsecondary opportunities, career preparation and advancement, meaningful work, and active citizenship.

Texas CTE is designed to help students (and their parents) make wise education choices. It is based on the belief that the curricula of the 21st century should combine rigorous academics with relevant career education. When schools integrate academic and technical education, students can see the “usefulness” of what they are learning. The system also facilitates a seamless transition from secondary to postsecondary opportunities by serving as a foundation for restructuring how schools arrange their instructional programs. A Career Cluster is a grouping of occupations and broad industries based on commonalities. The sixteen Career Clusters provide an organizing tool for schools. Career programs of study (POS) have been developed for each of the Career Clusters. The POS represent a recommended sequence of coursework based on a student’s interest or career goal.

Ball High School has incorporated the Programs of Study and Career Clusters into the Career and Technical Education department course structure and uses 14 of the clusters offering a wide range of career exploration and some of the sequences of courses lead toward the opportunity for a professional certification.

It is the policy of G.I.S.D. 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 the Rehabilitation Act of 1973, as amended.

Es la política de G.I.S.D. a no discriminar en base de la raza, del color, del origen nacional, del sexo, o de la inhabilidad en sus programas servicios, o actividades vocacionales segun lod requisitos del titulo VI del acto de las derechas civiles de 1964, segun la enmienda prevista; Titulo IX de las emiendas de la educacion, de 1972; y seccion 504 del acto de la rehabilitacion de 1973, segun la enmienda prevista.

Galveston Independent School District Division of Career and
Technology Education 2021-2022

1. The Galveston Independent School District offers Career and Technology Education programs in in Law & Criminal Justice, Architecture and Construction Technology, Operations and Emerging Technologies, Arts and A/V Technology, Animation and Gaming, Automotive Technology, Business Management and Administration, Cosmetology, Education and Training, Finance, Health Science and Biomedical Studies, Hospitality and Tourism, Human Services and Child Development, Information Technology, Welding and Manufacturing, Marketing and Entrepreneurship, Science-Technology-Engineering-Mathematics (STEM), and Transportation, Distribution, and Logistics. Admission to these programs is based on the interest of the student, and the age of the student in cooperative education programs.
2. It is the policy of the GISD not to discriminate on the basis of race, color, national origin, sex, or handicap in its Career and Technology 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 the Rehabilitation Act of 1973, as amended.
3. It is the policy of GISD not to discriminate on the basis of race, color, national origin, sex, handicap, or age in its employment practices as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; the Age Discrimination Act of 1975, as amended; and Section 504 of the Rehabilitation Act of 1973, as amended.
4. GISD will take steps to ensure that lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs. For information about your rights or grievance procedures, contact the Title IX Coordinator, Dyann Polzin, Executive Director of Human Resources, 504 Coordinator, and Student Services Assessment, at (409)766-5155.

carrera y de la tecnología en las ciencias de la tecnología automotora, del negocio, de la comercialización, de la ciencia de la salud, de la educación de la tecnología, de la hospitalidad, de la familia y del consumidor, tecnología de la construcción, así como cursos cooperativos de la educación de la preparación de la carrera en negocio, la comercialización, ciencias de la familia y del consumidor, e industrial. La admisión a estos programas se basa en el interés del estudiante, y la edad del estudiante en programas cooperativos de la educación.

2. Es la política del GISD a no discriminar en base de la raza, color, origen nacional, sexo, o desventaja en sus programas de la carrera y de la tecnología, los servicios, o las actividades según los requisitos del título VI del acto de las derechas civiles de 1964, según la enmienda prevista; Título IX de las enmiendas de la educación de 1972; y sección 504 del acto de la rehabilitación de 1973, según la enmienda prevista.
3. Es la política de GISD a no discriminar en base de la raza, del color, del origen nacional, del sexo, de la desventaja, o de la edad en sus prácticas del empleo según los requisitos del título VI del acto de las derechas civiles de 1964, según la enmienda prevista; Título IX de las enmiendas de la educación de 1972; el acto de la discriminación de edad de 1975, según la enmienda prevista; y sección 504 del acto de la rehabilitación de 1973, según la enmienda prevista.
4. GISD tomará medidas para asegurarse de que la carencia de las habilidades de lengua inglesa no será una barrera a la admisión y participación en todos los programas educativos y vocacionales. Para la información sobre las sus derechas o procedimientos del agravio, entre en contacto con a coordinador del título IX, Dyann Polzin, director ejecutivo de recursos humanos y del gravamen de los servicios del estudiante, y 504 coordinator en (409) 766-5155.

División independiente del distrito de la escuela de Galveston de la educación 2021-2022 de la carrera y de la tecnología.

1. El distrito independiente de la escuela de Galveston ofrece programas de la educación de la

Certifications, Articulated College Credit and Dual Credit in the CTE Department

Certifications—many certificates are offered to students in CTE classes. All students enrolled in shop classes must pass safety courses before being allowed to work in a lab. Certificates are awarded to students who pass these courses. Students in most classes earn certificates that can be presented when applying for jobs. Teachers discuss the various certificate options during the orientation for each class where these are offered.

Articulated College Credit—the CTE Department has Articulation Agreements with various junior colleges in this area. Articulated College Credit is college hours awarded to students who successfully meet the criteria required in the Articulation Agreement. Presently CTE has agreements with Galveston College, College of the Mainland and Alvin Community Junior College. Representatives from each institution visit CTE classes to explain the process of earning and claiming the Credit.

Dual College Credit (DC)—these college hours can be earned in some CTE classes where students are enrolled in a college course that also offers high school credit. This tuition, building fees and supply costs that can be paid by the student or in some cases, by the CTE Department. Teachers, who offer this type of class, give the details and handle the arrangements required by the college.

Continuing Education Credit (CE)-these non-credited college courses can be earned through enrollment in college classes that lead to industry certification. Generally, these classes are only offered at the college, with the exception of Diesel Mechanics 1 and 2.

Project Lead the Way (PLTW)-this program is the foundation curriculum for all Engineering and Biomedical Science classes at Ball High and the middle schools. Students will have the opportunity to sit for end of course exams and earn articulated credit in engineering or biomedical sciences to certain college programs around the country. Please visit www.pltw.org

State Endorsements- STEM, Public Service, and Business & Industry Endorsements are those found within CTE and refer to the state graduation pathways. A student may earn one or more of these endorsements by completing the new Foundation High School Plan and those curriculum requirements of the corresponding endorsement. Please see your counselor for more details.

Galveston Career Connect & The Moody Foundation (GCC)-GCC is a grant program that helps support and pay for important student intangibles for 7 career pathways: welding, IT, electrical & instrumentation, engineering & computer Science, CNA/Phlebotomy/LVN, and EMS. Students who are in these pathways and are signed up through the GCC grant are assigned a career advisor who help guide them over their 4 years while in high school and co-enrolled at Galveston College. The grant also offers the following benefits to those students: pay for certifications, pay for dual credit course tuition, pay for AP test registration, pay for ACT/SAT registration, pay for any uniforms or books needed, pay the student \$500 for one internship of 40+ hours completed, and pay the student \$500 for each tiered level of industry certification completed.

<https://www.galvestonisdcte.com/careerconnect>

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Public Service and STEM: Biomedical & Allied Health (supported by GCC)

Grades 9- 10 Principles of Biomedical Sciences (PLTW-PBS) (1 Credit)	Grade 10 Human Body Systems (PLTW-HBS) (1 credit)	Grade 10-11 Anatomy & Physiology (1 credit) Grade 11-12 Microbiology (1 credit)	Grade 11-12 Medical Terminology-Dual Credit (8 hours) 1 credit (Students will earn from GC 3 hours in Medical Terminology, 3 hours in Healthcare Communications, and 2 hours in Ethics)	Grade 11-12 Practicum in Health Science from the following: Scientific Research & Design at UTMB, CNA/Phlebotomy-CE, EMT-DC, LVN-DC, Surgical Tech DC, Medical Administration-DC 2 credits
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Principles of Biomedical Sciences (PLTW-PBS)

Prerequisite: None

Grades 9-10

1 Credit

The course provides an introduction and serves as an overview to the biomedical sciences through exciting “hands on” projects and problems. Student work involves the study of human medicine, research processes and an introduction to bio-informatics. Students investigate the human body systems and various health conditions including heart disease, diabetes, sickle cell disease, hypercholesterolemia, and infectious diseases.

Human Body Systems (PLTW-HBS)

Prerequisites: PBS

Grades 10-11

1 Credit

Students examine the interactions of body systems as they explore identity, communication, power, movement, protection and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Students build organs and tissues on a skeletal manikin, work through interesting real-world cases and often play the role of biomedical professionals to solve medical mysteries

Anatomy & Physiology

Prerequisite: Biology and Chemistry or IPC

Grades 10 -11

1 Credit

Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis. (To receive credit in science, students must meet the 40% laboratory and fieldwork requirement identified in §74.3(b)(2)(C) of this title (relating to Description of a Required Secondary Curriculum).

Medical Terminology-Dual Credit

Prerequisites: TSI satisfied or completed Anatomy and Physiology with an 80 or above

Grades 11-12

1 Credit

This course is designed to develop a working knowledge of the language of medicine. Students acquire word-building skills by learning prefixes, suffixes, roots and abbreviations. By relating terms to body systems, students identify proper use of words in a medical environment. Knowledge of medical terminology enhances the student's ability to successfully secure employment or pursue advanced education in health care; 1st semester in Medical Terminology, 2nd semester is Healthcare Professions/Ethics. Only students who are TSI satisfied can take this course their junior year. **Students must earn a 75 or higher to go to the second semester.**

Microbiology

Prerequisites: Biology and Chemistry

Grades 11-12 1 Credit

This course covers principles of microbiology and the impact these organisms have on man and the environment. Topics include the various groups of microorganisms, their structure, physiology, genetics, microbial pathogenicity, infectious diseases, immunology, and selected practical applications.

Practicum in Health Science: DC at GC: CNA/Phlebotomy, LVN, EMT, Surgical Technician, Medical Admn., R&D

Prerequisites: Completed 3 years of science to include A&P and/or Microbiology; or TSI satisfied Grades 11-12 2 Credits

The Practicum is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. It will help student to pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. **Those students who want to begin the LVN program while in high school must be college ready satisfied and complete CNA & Phlebotomy during the junior year.**



STEM: Engineering (PLTW) (supported by GCC)

<p>Grade 9-10</p> <p>Introduction to Engineering Design (PLTW-IED)</p> <p>1 Credit</p> <p><i>Autodesk Inventor Certification</i></p>	<p>Grade 10-11</p> <p>Principles of Engineering (PLTW-POE)</p> <p>1 Credit</p> <p><i>Autodesk AutoCad Certification</i></p> <p>Grade 10-11</p>	<p>Grade 11-12</p> <p>Aerospace Engineering (PLTW-AE)</p> <p>1 Credit</p> <p>Grade 11-12</p> <p>Civil Engineering & Architecture (CEA)</p> <p>1 credit</p> <p>Grade 11-12</p>	<p>Grade 12</p> <p>Engineering Design & Development (through the University of Texas)</p> <p>1 Credit</p>
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Introduction to Engineering Design (PLTW-IED)

Prerequisites: Currently enrolled in Algebra 1 or a higher math course

Grades 9-10

1 Credit

This course provides students with opportunities to be creative and to apply decision-making and problem-solving skills to design problems. Students use powerful computer hardware and software (Inventor) to develop 3-D models or solid

renderings of objects. Using a Computer Aided Design System, students learn the product design process through creating, analyzing, rendering and producing a model. Students will learn elementary engineering concepts and will explore career opportunities in design engineering as they develop portfolios to display and present their designs.

Principles of Engineering (PLTW-POE)

Prerequisites: IED and currently enrolled in Geometry or higher Grades 10-11 1 Credit

This course provides 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. ***Students will have the opportunity to sit for the Autodesk Inventor Certification.***

Civil Engineering & Architecture (CEA)

Prerequisites: IED and POE; preferred to have completed Algebra 2 or a higher Grades 11-12 1 Credit

Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architecture design software.

Aerospace Engineering (PLTW-AE)

Prerequisites: IED and POE; preferred to have completed Algebra 2 or a higher Grades 11-12 1 Credit

The major focus of this course is to expose students to the world of aeronautics, flight and engineering through the fields of aeronautics, aerospace engineering and related areas of study. Lessons engage students in engineering design problems related to aerospace information systems, astronautics, rocketry, propulsion, the physics of space science, space life sciences, the biology of space science, principles of aeronautics, and systems engineering.

Engineering Design & Development

Prerequisite: IED, POE, CEA, OR AE Grades 12 12 Credits

Engineer Your World is an innovative, student-centered curriculum that engages learners in authentic engineering experiences and inspires them to embrace an engineer's habits of mind. Collaborative, student-directed projects build resilient problem-solving skills and empower students to think like engineers, to adopt engineering processes, and to pursue engineering disciplines for the betterment of our world.



STEM: Robotics

<p>Grade 8-9</p> <p>Robotics I or II</p> <p>1 Credit</p> <p>Grade 10-11</p> <p>(students receive Robotics 1 credit in 8th grade if they were enrolled in that course and competed on the middle school robotics team)</p>	<p>Grade 9-10</p> <p>Robotics II or III</p> <p>1 Credit</p> <p>Grade 11-12</p> <p>Robotics III</p> <p>2 Credits</p> <p>Grade 10-11</p>	<p>Grade 11-12</p> <p>Robotics III or IV</p> <p>2 Credits</p> <p>Grade 12</p>	<p>Grade 12</p> <p>Robotics IV or Practicum in STEM</p> <p>2 Credits</p> <p><u>or</u></p> <p>Engineering Design & Development (through the University of Texas)</p> <p>1 Credit</p>
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Robotics I-II

Prerequisite: none, Robotics 1 completed in 8th or 9th grades to enroll in Robotics II Grades 8-10 1-2 Credits

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. Additionally, students explore career opportunities, employer expectations, and educational needs in the robotic and automation industry. Students will have the opportunity to compete in competitions and earn Robot C certification. **(Must have an 80 or above in Robotics 2 and be on the team to enroll in Robotics 3 and 4)**

Robotics III-IV

Prerequisite: successful completion of Robotics II or III and on the robotics team Grades 10-12 2 Credits

Students in this course are on the competitive robotics team through VEX and are obligated to compete in designated weekend events and travel to state, national and world championship events around Texas and the United States.



STEM & Business and Industry: Computer Science

<p>Grade 8</p> <p>Fundamentals of Computer Science (FCS)</p> <p>1 credit</p> <p>Grade 9</p> <p>Computer Science 1</p> <p>1 credit</p>	<p>Grade 10-11</p> <p>Computer Science 2</p> <p>1 credit</p> <p>AP Computer Science Principles & Software Engineering (LOTE YR 1)</p> <p>1 credit</p>	<p>Grade 11-12</p> <p>Computer Science 3</p> <p>1 Credit</p> <p>AP Computer Science A (LOTE YR 2)</p> <p>1 Credit</p>	<p>Grade 12</p> <p>Practicum in Computer Science (Cybersecurity)</p> <p>2 Credits</p>
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Fundamentals of Computer Science (FCS)

Prerequisites: currently enrolled in Algebra 1

Grades 8

1 Credit

This course teaches the foundations of computer science and basic programming in JavaScript, with an emphasis on helping students develop logical thinking and problem solving skills. The course is designed for complete beginners with no previous background in computer science. The course is visual, dynamic, and interactive making it engaging for new coders and those interested in careers in the computer industry.

Computer Science 1

Prerequisites: none

Grades 9-10

1 Credit

This course is designed to foster students' creativity and innovation by presenting opportunities to design, implement and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor and with various electronic communities to solve the problems presented throughout the course. This course teaches the foundations of computer science and basic programming in JavaScript, with an emphasis on helping students develop logical thinking and problem solving skills. The course is visual, dynamic, and interactive making it engaging for new coders and those interested in careers in the computer industry.

Computer Science 2

Prerequisites: Computer Science 1

Grades 10-11

1 Credit

This course will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science 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 solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of computer science through the study of technology operations, systems, and concepts.

Computer Science 3

Prerequisites: Computer Science 2

Grades 11-12

1 Credit

This course utilizes tools and writing programs for acquiring, cleaning, analyzing, exploring, and visualizing data; making data-driven inferences and decisions; and effectively communicating results. Learning data manipulation, data analysis with statistics and machine learning, data communication with information visualization, working with big data using scalable techniques.

AP Computer Science Principles & Software Engineering

Prerequisites: completed Algebra 1

Grades 10-12

1 Credit

In this course, students will learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They will incorporate abstraction into programs and use data to discover new knowledge. Students will also explain how computing innovations and computing systems, including the Internet, work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical. This course does not have a designated programming language. Teachers have the flexibility to choose a programming language(s) that is most appropriate for their students to use in the classroom. ***This course can count towards a student's foreign language graduation requirement (LOTE year 1).***

AP Computer Science A

Prerequisites: completed AP Comp. Sci. Principles

Grades 10-12

1 Credit

This course introduces students to computer science through programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language. ***This course can count towards a student's foreign language graduation requirement (LOTE year 2).***

Practicum in Computer Science (Cyber Security Principles)

Grade 12

2 credits

Prerequisites: completed AP Comp. Sci. Principles, AP Comp. Sci. A, and Computer Science 3

Students will learn basic cyber security concepts, enable you to identify root causes of vulnerabilities in a network system and distinguish them from the threats from both inside and outside; analyze the enabling factors of recent cyber-attack incidences and discuss the basic security services for their defense and triage.



Business & Industry: Construction and Operations

Grade 9-10 Principles of Architecture & Construction 1 credit	Grade 10-11 Constructions Technology 1 1 credit <i>NCCR Core Certification</i> <i>Carpentry 1 Certification</i>	Grade 11-12 Practicum in Construction Technology and Operations 2 Credits	Grade 12 (SEE PAGE 10 FOR HVAC/R, ELECTRICAL/INSTRUMENTATION, and PROCESS TECHNOLOGY) HALF DAY AT GALVESTON COLLEGE 4-5 credits
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Principles of Architecture & Construction

Prerequisite: none

Grades 9-10

1 Credit

This course provides an overview to the various fields of architecture, interior design, construction science, and construction technology. **(The student must have a grade of 75 to advance to Construction Technology.)**

Constructions Technology 1

Prerequisite: Principles of Architecture & Construction

Grades 10-11

1 Credit

This course is an exploratory course that addresses the utilization of construction for residential and civil structures. Students study and use common construction tools, machines, materials and processes. The course provides experiences in planning and controlling construction systems and projects to explore the organizational structures and management strategies in construction. Students earn NCCR Safety Core Curriculum and Carpentry 1 Certifications. **(The student must have a grade of 75 to advance to Practicum in Construction Technology & Operations Systems AND COMPLETED OSAH AND NCCER.)**

Practicum in Construction Technology and Operations

Prerequisite: Constructions Technology 1

Grades 11-12

2 Credits

This course is designed to provide job-specific training for entry-level employment in operations and construction-related careers: carpenter, instrumentations, electrician, HVAC/R, and Process technology Operator. Second year instruction is designed to enhance entry-level training and employment in one of the five construction related areas. **(The student must have a grade of 80 to advance to Galveston College.)**



Business & Industry: Electrical-Instrumentation and HVAC/Refrigeration

THESE PROGRAMS ARE OPENED TO ALL CONSTRUCTION OR PLTW STUDENTS WHO HAVE COMPLETED 3 YEARS OF THEIR RESPECTIVE PATHWAY.

<u>Dual Credit-GC</u>	<u>Dual Credit-GC</u>	<u>Dual Credit-COM</u>
<p>Electrical and/or Instrumentation Electrical Technology</p> <p>Advanced Electrical Technology</p> <p>Grade 12</p> <p>4-5 Credits</p>	<p>HVAC & Refrigeration Technology</p> <p>Advanced HVAC & Refrigeration Technology-Dual Credit</p> <p>Grade 12</p> <p>4-5 Credits</p>	<p>Process Technology</p> <p><u>MUST BE TSI SATISFIED</u></p> <p>Grade 12</p> <p>4-5 Credits</p>

Electrical Technology 1 and Electrical Technology 2:

Offered at Galveston College Applied Technical Center. Students enrolled in this program are working towards electrical and instrumentation certification with Galveston College’s Electrical & Instrumentation Applied Science Associate’s Degree. Students gain advanced knowledge and skills specific to those needed to enter the work force as an electrician or building maintenance technician or supervisor or prepare for a postsecondary degree in construction. Students acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, alternating current and direct current motors, conductor installation, installation of electrical services, and electric lighting installation.

HVAC & Refrigeration Technology 1 and HVAC & Refrigeration Technology 2:

Offered at Galveston College Applied Technical Center. Students enrolled in this program are working towards electrical and instrumentation certification with Galveston College’s HVAC/R Applied Science Associate’s Degree. Students gain advanced knowledge and skills specific to those needed to enter the industry as HVAC and refrigeration technicians or building maintenance technicians or supervisors or prepare for a postsecondary degree. Students acquire knowledge and skills in safety, electrical theory, tools, codes, installation of commercial HVAC equipment, heat pumps, trouble-shooting techniques, various duct systems, and maintenance practices.

Process Technology

Prerequisite: TSI, Algebra 2, Chemistry, and be enrolled in Physics Grades 12 4-5Credits
 Offered at College of the Mainland. Jet fuel, building materials, metals and plastics—all are products of process technology. Process technology involves every aspect of chemical processing, including extracting chemicals such as oil and natural gas, refining them and carefully monitoring the process that makes it happen. Special instrumentation, pumps, turbines and compressors are designed to monitor and separate the chemicals that make up countless products we use every day.



Business & Industry: Welding

Grade 9-10 Introduction to Welding (articulated credit for GC) 1 Credit	Grade 10-11 Welding 1 –Dual Credit 2 Credits (<i>multiple certifications awarded upon successful completion</i>)	Grade 11-12 Welding 2-Dual Credit 3 Credits (<i>multiple certifications awarded upon successful completion, including Forklift</i>)	Grade 12 Practicum in Welding (Manufacturing)- Dual Credit 3 credits
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Introduction to Welding

Prerequisites: none

Grades 9-10

1 Credit

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 manufacturing production technology prepare students for success in the modern world. The study of manufacturing 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 and technical knowledge and skills, students gain an understanding of career opportunities available in manufacturing and what employers require to gain and maintain employment in these careers. **(The student must have a grade of 75 to advance to Welding.)**

Welding 1-DC

Prerequisite: Principles of Manufacturing

Grades 10-11

2 Credits

Rapid advances in technology have created new career opportunities and demands in many industries. Welding provides the knowledge, skills, and technologies required for employment in metal technology systems. Students develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success. **(The student must have a grade of 75 to advance to Advanced Welding AND BE COMPLETE WITH OSHA AND NCCER CORE.)**

Welding 2-DC (3RD Year): at GC

Prerequisites: Welding

Grades 11-12

3 Credits

Advanced Welding builds on knowledge and skills developed in Welding. Students will develop advanced welding concepts and skills as they relate to personal and career development. This course integrates academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. **(The student must have a grade of 75 to advance to Practicum in Welding.)**

Practicum in Welding-DC (4th Year): at GC

Prerequisites: Advanced Welding

Grades 12

3 Credits

Practicum in Welding is designed to give students supervised practical application and/or paid internships based on previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Students will also be enrolled in the pipefitting program at GC



Business & Industry: Automotive

Grade 9-10	Grade 10-11	Grade 11-12	Grade 12
Automotive Basics (1 Credit)	Automotive Technology 1 (2 Credits)	Automotive Technology 2 2 Credits	Diesel Mechanics 1 & 2-CE Automotive AC-CE

Automotive Basics

Prerequisite: None

Grades 9-10

1 Credit

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. **(Students must earn a 75 or higher to go to automotive technology 1.)**

Automotive Technology 1

Prerequisite: Principles of Transportation, Distribution & Logistics

Grades 10-11

2 Credits

Automotive services include knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. In Automotive Technology, students gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach the theory of operation of automotive vehicle systems and associated repair practices. **(Students must earn a 75 or higher to go to advanced automotive technology and have earned SP2 and OSHA.)**

Automotive Technology 2

Prerequisite: Automotive Technology

Grades 11-12

2 Credits

Services include advanced knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. Students gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach the theory of operation of automotive vehicle systems and associated repair practices. Students who excel in this course will have the opportunity to earn multiple automotive certifications, and will also have the opportunity to AYES placement at a General Motors dealership auto shop or employment at a Galveston based O'Reilly's. **(Students must earn a 80 or higher to go to Diesel Mechanics and Auto AC.)**

Diesel Mechanics 1 & 2-CE

Prerequisite: Advanced Automotive Technology

Grades 11-12

This class mixes classroom instruction with hands-on training, including the basics of diesel technology, repair techniques and equipment, and practical exercises. Students also learn how to interpret technical manuals and electronic diagnostic reports. This class is offered at Ball High School, but it is after-school only.

Automotive AC-CE

Prerequisite: Diesel 1

Grades 11-12

Learning experiences for students in the Automotive Technology program and related certificates are provided in the classrooms and automotive bays. Students develop skills within the Automotive HVAC Essentials Certificate Program. The program can help you prepare for industry certification and enhance your skills for employment in a garage, dealership, auto supply store, or public transportation.



Business & Industry: Global Logistics and Supply Chain Distribution

Grade 9	Grade 10	Grade 11	Grade 12
<p>Business Information Management (BIM)</p> <p><i>(THIS COURSE IS AVAILABLE ONLINE)</i></p> <p>1 Credit</p>	<p>Business Information Management II (BIM II)</p> <p>1 credit</p>	<p>Distribution & Logistics-DC with Certificate</p> <p>2 credits (up to 10 college hours)</p>	<p>Practicum Distribution & Logistics -CE/DC with Certificate</p> <p>2-3 credits (11 college hours)</p>

(THESE HOURS ARE TRANSFERRABLE GALVESTON COLLEGE WHO NOW HAS AN ARTICULATION AGREEMENT WITH TAMUG.)

BIM

Prerequisite: For Students in Grade 9-10

Grades 9

1 Credit

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 postsecondary education. Students apply technical skills to address business applications of Microsoft Office, emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software. All students will have the opportunity to earn the Microsoft Office Certification.

BIM II

Prerequisite: BIM 1

Grade 10

1 credit

Students will implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce or postsecondary education. Students apply

technical skills to address business applications of emerging technologies, create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs, and make an electronic presentation using appropriate multimedia software. **All students will have the opportunity to continue earn the Microsoft Office Certifications based on where they left off in BIM 1.**

Distribution & Logistics-DC with Certificate Grade 11 2 credits

This transferrable credit-based certificate is a sequence of courses that the college will offer as a program in Ball High School and on the main campus. Major topics include understanding the life cycle of global chain logistics, the logistics environment and familiarization with different material handling equipment, introduction to safety principles and safe equipment handling, quality control principles, workplace communications, teamwork and problem solving. Total Program hours: 592 contact hours. **(Students must earn a 80 or higher to go to Practicum Distribution & Logistics)**

Practicum Distribution & Logistics -DC with Certificate Grade 12 2 credits

Students who have successfully completed the first level logistics associate course are prepared for the second level certification as a Certified Logistics Technician Certification. The focus of the course is on product receiving, storage order processing, packaging and shipment, inventory control, evaluation of transportation modes and dispatch and tracking. This second course is a second level certification from the Manufacturing Skills Standards Council, (MSSC). These are industry led nationally validated skills standards. The assessment for certification will be at the conclusion of the course. **Students will apply for their TWIC card before graduation: paid for by GISD CTE**



Business & Industry: Entrepreneurship and Business



<p>Grade 9</p> <p>Business Information Management (THIS COURSE IS AVAILABLE ONLINE)</p> <p>1 Credit</p>	<p>Grade 10</p> <p>Business Information Management II (BIM II)</p> <p>1 credit</p>	<p>Grade 11-12</p> <p>Marketing & Social Media</p> <p>1 Credit</p>	<p>Grade 12</p> <p>INCUBATOR- Entrepreneurship</p> <p>1 Credit</p>
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BIM Grades 9 1 Credit
 Prerequisite: For Students in Grade 9-10

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 postsecondary education. Students apply technical skills to address business applications of Microsoft Office, emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software. **All students will have the opportunity to earn the Microsoft Office Certification.**

BIM II Grade 10 1 credit
 Prerequisite: BIM 1

Students will implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce or postsecondary education. Students apply

technical skills to address business applications of emerging technologies, create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs, and make an electronic presentation using appropriate multimedia software. **All students will have the opportunity to continue earn the Microsoft Office Certifications based on where they left off in BIM 1.**

Marketing & Social Media

Prerequisite: BIM

Grade 10

1 credit

This course is designed to build students’ social media marketing skills by utilizing projects that give students hands on experience implementing social media marketing strategies. Topics include integrating different social media technologies into a marketing plan, creating social media marketing campaigns, and applying appropriate social media tools.

INCUBATOR-Entrepreneurship

Prerequisite: IED, Art I, Business Law, BIM, any trades level 1 course

Grade 11

1 Credits

Students acquire foundational business concepts, and then apply those concepts to a team business idea. Principles from the LEAN startup movement help students test their thinking. From concept to Minimum Viable Product to Pitch, students are hypothesizing, testing, adapting and learning. Importantly, they work and learn in teams. In addition to team collaboration, students are paired with business professional mentors and learn content specific information from community coaches. Mentors are volunteer guides, who advise student teams as they develop their business concepts. Coaches are volunteer subject matter experts, who share best thinking/practices in the classroom.



Business & Industry: IT

Grade 9-10	Grade 10-11	Grade 11-12	Grade 11-12	Grade 12
<p>Computer Science 1</p> <p>1 credit</p>	<p>AP Computer Science Principles Software Engineering (LOTE YR 1)</p> <p>1 credit</p>	<p>Computer Maintenance (A+/CompTia certification) CE/DC with GC</p> <p>1 credit</p> <p>AP Computer Science A (LOTE YR 2)</p> <p>1 credit</p>	<p>Microsoft Office Desktop Support CE/DC with GC</p> <p>2 Credits</p>	<p>Practicum in IT/CISCO 1& 2-CE/DC with GC</p> <p>2 credits</p>

Computer Science 1

Prerequisites: none

Grades 9-10

1 Credit

This course is designed to foster students’ creativity and innovation by presenting opportunities to design, implement and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor and with various electronic communities to solve the problems presented throughout the course. This course teaches the foundations of computer science and basic programming in JavaScript, with an emphasis on helping students develop logical thinking and problem solving skills. The course is visual, dynamic, and interactive making it engaging for new coders and those interested in careers in the computer industry.

AP Computer Science Principles & Software Engineering

Prerequisites: completed Algebra 1

Grades 10-12

1 Credit

In this course, students will learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They will incorporate abstraction into programs and use data to discover new knowledge. Students will also explain how computing innovations and computing systems, including the Internet, work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical. This course does not have a designated programming language. Teachers have the flexibility to choose a programming language(s) that is most appropriate for their students to use in the classroom. ***This course can count towards a student's foreign language graduation requirement (year 1).***

AP Computer Science A

Prerequisites: completed AP Comp. Sci. Principles

Grades 10-12

1 Credit

This course introduces students to computer science through programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language. ***This course can count towards a student's foreign language graduation requirement (year 2).***

Computer Maintenance

Prerequisite: Fundamentals of Computer Science

Grade 10-11

1 credit

Students acquire principles of computer maintenance, including electrical and electronic theory, computer hardware principles, and broad level components related to the installation, diagnosis, service, and repair of computer systems. To prepare for success, students must have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. ***Students will have the opportunity to earn A+ certification through 2 exams that cover the skills of the fundamentals of computer technology, installation and configuration of PCs, laptops and related hardware, and basic networking; and those required to install and configure PC operating systems, as well as configuring common features for mobile operating systems Android and Apple iOS.***

Microsoft Office Desktop Support-CE

Grade: 11-12

2 credits

Prerequisite: Computer Maintenance and A+ Certification

Help desk technicians are vital to the IT workforce, as they keep the technologies that organizations rely on to do business up-to-date and running smoothly. IT help desk technicians provide technical support and troubleshooting services to end-users who need assistance with their computer hardware or software.

Practicum in IT/CISCO 1& 2- CE/DC with GC

Prerequisite: Computer Maintenance and A+ Certification

Grade: 11-12

2 credits

This course is designed to implement the skills to diagnose, restore, repair, and replace critical Cisco networking and system devices at customer sites; introduce students to CISCO routing and switching and how to successfully install, operate, and troubleshoot a small to medium-size enterprise branch network. ***Students will have the opportunity to earn CISCO certification through ICDN1 and ICND2: CCNA Routing and Switching.***



Business & Industry: Audio & Video

Grade 9-10 Animation <i>THIS COURSE IS AVAILABLE ONLINE</i> 1 credit	Grade 9-11 Audio/Video Production 1 1 credit	Grade 10-12 Audio/Video Production 2 with Lab 2 Credits	Grade 11-12 Practicum and Extended Practicum in Audio/Video Production 2-3 Credits
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Animation

Prerequisite: none

Grades 9-10

1 Credit

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.

Audio/Video Production 1

Prerequisite: Animation **OR** completed Central or Austin MS's Audio/Video and Communications Program

Grade 9-11

1 Credit

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing 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 industry with a focus on pre-production, production, and post-production audio and video activities. *(Students will have the opportunity to earn certifications in All Adobe Close Products, including After Affects)*

Audio/Video Production 2 with Lab

Prerequisite: Audio/Video Production

Grade 10 -12

2 Credits

Students will participate in the Ball High School News Cast and will be involved in all aspects of producing a news cast. Skills involve scriptwriting, anchoring, camera placement and shooting, film editing, sound editing, lighting and uploading the newscast to a server. *(Students will have the opportunity to earn certifications in All Adobe Close Products, including After Affects)*

Practicum and Extended Practicum in Audio/Video Production

Prerequisite: Advanced Audio/Video Production

Grade 11-12

2 Credits

Students will participate in the Ball High School News Cast and will be involved in all aspects of producing a news cast. Skills involve scriptwriting, anchoring, camera placement and shooting, film editing, sound editing, lighting and uploading the newscast to a server.



Business & Industry: Animation & Gaming



Grade 9-10	Grades 10-11	Grades 10-12	Grade 11-12	Grades 11-12
Animation <i>(THIS COURSE IS AVAILABLE ONLINE)</i> 1 credit	Graphic Design & Illustration 1 Credit AP Computer Science Principles & Software Engineering (LOTE YR 2) 1 credit	AP Computer A (LOTE YR 2) 1 credit	Graphic Design & Illustration 2 1 Credit Video Game and Design: ESPORTS 1 Credit	Video Game Design 2: ESPORTS 2 credit

Animation

Prerequisite: none

Grades 9-10

1 Credit

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.

Graphic Design & Illustration

Prerequisite: Animation

Grades 10-11

1 Credit

Students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design. Students will use personal information management, email, internet, writing and publishing, presentation, and spreadsheet or database applications for art and design projects.

AP Computer Science Principles & Software Engineering

Prerequisites: currently enrolled or completed Algebra 2

Grades 11-12

1 Credit

Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. This course can be a student's first course in computer science, although we encourage students without prior computing experience to start with Introduction to Computer Science. CSE helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. This course aligns with the AP Computer Science Principles course. ***This course can count towards a student's foreign language graduation requirement (year 1).***

AP Computer Science A

Prerequisites: completed AP Comp. Sci. Principles

Grades 10-12

1 Credit

This course introduces students to computer science through programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social

implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language. ***This course can count towards a student's foreign language graduation requirement (year 2).***

Graphic Design 2

Prerequisite: Animation

Grades 11-12

1 Credit

Students will use the enhancement of the Adobe Creative Suite software, which includes Photoshop, InDesign and Illustrator to create advanced graphic documents. Advanced style and techniques will be used throughout the layout and design process. The design process will be explored further, and students will be given more challenging graphic tasks and assignments which will include logo design. Activities call for students to apply problem solving methodology to analyze and formulate real world solutions. Career options will be explored in the fields of Marketing, Advertising, and Graphic Design.

Video Game Design: ESPORTS

Prerequisite: Animation, Graphic Design

Grades 11-12

1 Credit

Students will learn game analysis, game design, creation of characters and their environments, low-polygon modeling, and file limitations. A wide range of skills will be developed in the class including, storyboarding, sketching, rendering, animation, and program debugging. 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 solutions, and evaluate the results. Students will learn digital citizenship 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.

Video Game Design 2: ESPORTS

Prerequisite: ESPORTS

Grades 11-12

1 Credit

This a competitive practicum course in which students are required to compete locally and through UIL. **Students will be selected on an application basis and must have completed ESPORTS/Video Game Design with an 80 or above.**



Business & Industry Endorsement: Hospitality & Culinary

Grades 9-10 Principles of Hospitality & Tourism (THIS COURSE IS AVAILABLE ONLINE) 1 Credit	Grades 10-11 Hotel Management (THIS COURSE IS AVAILABLE ONLINE) 1 Credit Grades 10-11 <i>Students earn State of Texas Food Handler & Servsafe Certificates</i>	Grades 11-12 Hospitality Services 2 credits (<i>intern at San Luis Resort</i>)	Grade 12 Practicum in Hospitality Services 2 Credits (<i>intern at San Luis Resort</i>) Grades 12
	Grades 11-12 Food Science 1 Credit (may count as 1 of the 4 sciences required for graduation)		Grade 12 Culinary Arts-DC 2 Credits-Dual Credit Course: up to 8hours

Principles of Hospitality & Tourism

Prerequisites: None

Grades 9-10

1 Credit

The hospitality and tourism industry encompasses lodging; travel and tourism; recreation, amusements, attractions, and resorts; and restaurants and food beverage service. The hospitality and tourism industry maintains the largest national employment base in the private sector. Students use knowledge and skills that meet industry standards to function effectively in various positions within this multifaceted industry. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Hotel Management

Prerequisites: Principles of Hospitality & Tourism

Grades 10-11

1 Credit

This course focuses on the knowledge and skills needed to pursue staff and management positions available in the hotel industry. This in-depth study of the lodging industry includes departments within a hotel such as front desk, food and beverage, housekeeping, maintenance, human resources, and accounting. This course will focus on, but not be limited to, professional communication, leadership, management, human resources, technology, and accounting. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Hospitality Services

Prerequisites: Hotel Management, Travel and Tourism Management, or Restaurant Management.

Grades 11-12

2 Credits

Hospitality Services provides students with the academic and technical preparation to pursue high-demand and high-skill careers in hospitality related industries. The knowledge and skills are acquired within a sequential, standards-based program that integrates hands-on and project-based instruction. Standards included in the Hospitality Services course are designed to prepare students for nationally recognized industry certifications, postsecondary education, and entry-level careers. In addition, Hospitality Services is designed so that performance standards meet employer expectations, enhancing the employability of students. Instruction may be delivered through laboratory training or through internships, mentoring, or job shadowing. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Food Science

Prerequisites: 2+ years of any previous science

Grade 11-12

1 Credit

Overview of food safety, composition, and preservation methods. Structure-function relationships of water, protein, lipids, carbohydrates, minerals, and natural products in food systems.

Practicum in Hospitality & Services

Prerequisites: Hospitality Services

Grades 12

2 Credits

A unique practicum experience provides opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Hospitality Services integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace.

Culinary Arts-Dual Credit (up to 8 college hours)

Prerequisites: Prerequisites: Principles of Hospitality & Tourism, Hotel Management, Food Science

Grades 12

2 Credits

This course is a unique practicum that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Culinary Arts integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace. This course sequencing is offered as a laboratory-based at Galveston College where students take Saucier, Nutrition, International Cuisine, and Restaurant Spanish (total of 12 hours)



Public Service Endorsement: Childcare and Education



<p>Grades 10-11</p> <p>Child Guidance</p> <p>1 Credit</p>	<p>Grades 12</p> <p>Practicum in Education & Training (BESTT)</p> <p>Students who will major in Education are able to co-enroll in education college course 1301 and 2301</p> <p>2 Credits</p>
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Child Guidance

Prerequisite: none or Lifetime Nutrition and Wellness Grades 10-11 1 Credit

This technical laboratory course addresses the knowledge and skills related to child growth and guidance equipping students to develop positive relationships with children and effective caregiver skills. Students use these skills to promote the well-being and healthy development of children, strengthen a culturally diverse society, and pursue careers related to the care, guidance, and education of children, including those with special needs. Students will have the opportunity to earn their Child Care Worker Certification. **(Must have an 80 or above to be eligible to go into BESTT)**

Practicum in Education and Training (BESTT)

Prerequisites: Principles of Education and Training, Human Growth and Development, and Instructional Practices in Education and Training Grades 12 2 Credits

Practicum in Education and Training is a field-based internship that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and complete other responsibilities of classroom teachers, trainers, paraprofessionals, or other educational personnel.



Public Service Endorsement: Cosmetology

Grade 10-11	Grade 11	Grade 12
Anatomy & Physiology	Introduction to Cosmetology and Cosmetology 1	Cosmetology 2 and Cosmetology Specialist
(will count as 1 of the student's 4 sciences)	TAUGHT AT GALVESTON COLLEGE ATC	TAUGHT AT GALVESTON COLLEGE ATC
1 credit	4 credits	4 credits

Anatomy & Physiology

Prerequisite: Biology and IPC/Chemistry

Grades 10 -11

1 Credit

Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis. (To receive credit in science, students must meet the 40% laboratory and fieldwork requirement identified in §74.3(b)(2)(C) of this title (relating to Description of a Required Secondary Curriculum).

Introduction to Cosmetology /Cosmetology 1 and Cosmetology 2 and Cosmetology Specialist

(TAUGHT AT GALVESTON COLLEGE ATC)

This high school program is dual credit only and is offered at Galveston College Applied Technical Center. Students enrolled in this program are working towards the state of Texas certification in cosmetology and an Applied Science Associate's Degree. Students gain advanced knowledge and skills specific to those needed to enter the work force as a cosmetologist. Students acquire knowledge and skills in safety, chemicals, health codes, skin and hair care, and how to interact positively in the public sector when dealing with people, their needs, and customer satisfaction. Students CAN ONLY enter this program as a junior. Upwards of 42 college hours can be earned if a student completes this 2-year program.



Public Service Endorsement: Law Enforcement

<p>Grade 11-12</p> <p>Law Enforcement 1 and Correctional Services-DC (up to 6 college hours through GC)</p> <p>1 credit</p>	<p>Grade -12</p> <p>Law Enforcement 2 and Court Systems & Practices-DC</p> <p>(up to 6 college hours through GC)</p> <p>1-2 credits</p>	<p>Grade 11-12</p> <p>Forensic Science 1 credit (will count as 1 of the student's 4 sciences)</p>
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Law Enforcement 1 and Correctional Services-DC

Prerequisite: Principles of law, public safety, corrections, and security Grade 10-11 1 Credit

This course is an overview of the history, organization, and functions of local, state, and federal law enforcement. This course includes the role of constitutional law, the United States legal system, criminal law, law enforcement terminology, and the classification and elements of crime.

Law Enforcement 2 and Court Systems & Practices-DC

Prerequisites: Law Enforcement 1 Grade 11-12 1 Credit

This course provides the knowledge and skills necessary to prepare for a career in law enforcement. This course includes the ethical and legal responsibilities, operation of police and emergency telecommunication equipment, and courtroom testimony.

Forensic Science

Prerequisite: Biology, IPC or Chemistry, Law Enforcement 1 Grade 11-12 1 Credit

Students will use a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis. Students will learn the history, legal aspects, and career options for forensic science.

All Ball High School Students will take Professional Communications

Professional Communications

Prerequisite: None

Grade 10-12

½ Credit

Professional Communications blends written, oral, and graphic communications in a career and college-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communications. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research. The student applies English language arts in professional communications projects.

Note: this course can be taken for Dual Credit if those meet the college ready standards set forth by the Texas Higher Education Board through SAT, ACT, TSI, or STAAR. Please see your counselor.