Harlingen Consolidated Independent School District

Course Description Bulletin 2025-2026

The Harlingen Consolidated Independent School District does not discriminate on the basis of race, color, national origin, age, religion, sex, disability or any other legally protected status in its employment practices or in the provision of services, programs or activities. The Assistant Superintendent for Human Services and Title IX, Debbie Scogin, and Shannon Reyna, the Section 504 Coordinator have been designated to handle inquiries regarding discrimination based on sex and disability. Inquiries regarding all other antidiscrimination laws should be made to the Superintendent. Both may be contacted at 407 N. 77 Sunshine Strip, Harlingen, TX 78550 and/or (956) 430-9711.

El distrito escolar de Harlingen no discrimina en base a raza, color, origen de nacionalidad, edad, religión, sexo, discapacidad o cualquier otro estado legalmente protegido en sus prácticas de empleo o en la prestación de servicios, programas o actividades. La Asistente del Superintendente en el área de Servicios Humanos y coordinadora del Título IX, Debbie Scogin, y Shannon Reyna, la especialista de la Sección 504 han sido designados para atender las consultas relacionadas a la discriminación basada en sexo y discapacidad. Las consultas relacionadas a todas las demás leyes antidiscriminatorias deben dirigirse al Superintendente. Ambos pueden ser contactados en 407 N. 77 Sunshine Strip, Harlingen, TX 78550 y/o al teléfono (956) 430 -9711.

View online by visiting: https://www.hcisd.org/coursebulletin

HARLINGEN PUBLIC SCHOOLS

This Course Description Bulletin provides information regarding the different classes available to high school students. The Program of Study section helps students develop a plan to guide their high school years into college and career paths. The Graduation Information and Jump Start Option sections provide more details about graduation, including earning college credit while still in high school. The Academic Classes and Career and Technical Education Career Clusters provide descriptions of the classes themselves. We hope you will take time to work with your child and his or her counselor to begin planning for a successful future.

Disclaimer: The contents of the HCISD Course Description Bulletin are subject to change based upon student demand and district resources. The courses listed in this book may not be offered each academic year. You can find the most updated version on our HCISD website. If you have any questions pertaining to course offerings, graduation information, or college and career readiness, please visit with your counselor and/or college advisor.

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INTRODUCTION

PROGRAMS OF STUDY

The focus of "Programs of Study" is on lifelong learning for a life-time of HCISD student success. The learning about potential careers, setting post-secondary goals and mastering rigorous academics are all part of this on-going process. It is the goal of the HCISD that every single student graduates college and career ready.

Visit with your campus counselor to discuss all of your options!

HCISD offers the following Career and Technical Education (CTE) Programs of Study:

- Agriculture, Food, & Natural Resources
- Architecture & Construction
- Arts, A/V Technology, & Communications
- Business Marketing and Finance
- Education & Training
- Firefighter & EMT
- Health Science
- Hospitality & Tourism
- Human Services
- Information Technology
- Law and Public Service
- Manufacturing
- Engineering
- Transportation, Distribution & Logistics

HB 5 IMPACTS

OVERVIEW

In the spring of 2014, the Texas Legislature passed House Bill 5, commonly referred to as "HB5". It makes substantial changes to the state's graduation requirements, moving away from the current "4x4" graduation plans to an innovative 22-credit Foundation High School Program (FHSP) that allows students to earn endorsements in specific areas of study by completing four additional credits and performance acknowledgements.

Students entering high school in the fall of 2014-15 must meet the requirements of the foundation high school program to receive a high school diploma.

The endorsement areas are Science, Technology, Engineering and Mathematics (STEM); Business and Industry; Public Services; Arts and Humanities; and Multidisciplinary Studies. The Harlingen CISD offers courses to meet endorsements in all areas.

- Business & Industry Endorsement
- Public Service Endorsement
- STEM Endorsement
- Arts & Humanities Endorsement
- Multi-Disciplinary Endorsement

GRADUATION PLAN

YOUR FUTURE STARTS HERE...

Your high school graduation plan is MUCH more than just a list of classes that you will take in high school. It is the road map by which you will schedule classes, plan extra-curricular activities, and track your progress towards your future graduation. It is your responsibility to review your high school plan each semester to ensure that you are on the right path to graduate on time.

Use this Course Description Bulletin to plan out your future schedule. Keep in mind that careful planning is important to ensure that you graduate on time. Parents are encouraged to assist their children in making good academic choices. Be sure to review your choices with your parents and counselor and discuss how you can take full advantage of the courses such as being able to earn college credit, explore your interests and academically challenge yourself while completing all the requirements needed for high school graduation.

HCISD ACADEMIES

YOUR FUTURE STARTS HERE...

The Career Academies of HCISD are designed to prepare students for both college and careers. They are schools within schools that link students with **peers, teachers, and community partners** in a structured environment that fosters academic success. ... A college-prep sequential curriculum with a recognized career theme.

There are twelve CTE Career Academies in HCISD:

- ⇒ **Apprenticeship Academy**
- ⇒ **Automotive Training Academy**
- ⇒ **Business Academy**
- ⇒ **First Responders Academy**
- ⇒ **Health Science Academy**
- ⇒ **Information Technology Academy**
- ⇒ **Media Arts and Communications Academy**
- ⇒ **Natural Resources Academy**
- ⇒ **Pre-Engineering Academy**
- ⇒ **Pre-Law Academy**
- ⇒ **Pre-Veterinary Science Academy**
- ⇒ **Teacher Academy**

APPRENTICESHIP ACADEMY

What Do Architects, Trained Construction Workers and Professional Welders Do

People need places to live, work, play, learn, shop, and eat. Architects are responsible for designing these places. They work on public or private projects and design both indoor and outdoor spaces.

Architects can be commissioned to design anything from a single room to an entire complex of buildings. Architects discuss the objectives, requirements, and budget of a project with clients. In some cases, architects provide various pre-design services, such as feasibility and environmental impact studies, site selection, cost analyses, and design requirements.

Construction is one of the most versatile occupations with highly trained specialists in such fields as electrical, plumbing and HVAC.

Texas has opportunities waiting for welders all over the region in a variety of industries. Employment can be wide ranging, including jobs working in manufacturing shops, maintenance shops, steel erection operations, ship building yards or oil fields. Other related jobs can include rig building specialty metal welding.

Architecture & Construction

Manufacturing

PATHWAYS

- ARCHITECTURAL DESIGN
- CARPENTRY
- ELECTRICAL
- HVAC & SHEETMETAL
- MASONRY
- WELDING
- BUILDING CONSTRUCTION CRAFTSMAN PROGRAM (DUAL - TSTC)
- PRECISION MACHINING PROGRAM (DUAL - TSTC)

Prospective Careers in the Field of Architecture and Construction

A/C Technician
Architect
Boilermakers
Civil Engineer
Drafter
Drywall Installer
Electronic Engineer
Environmental Designer
Electrician
Electronic Systems Technician
Estimator
Explosives Worker
Field Supervisor
Floor Layer
General Contractor
Glazier
Industrial Engineer
Interior Designer
Insulation Worker
Iron/Metalworker
Materials Engineer
Mason
Modeler
Landscaper
Maintenance Estimator
Painter
Pipefitter
Plumber
Preservationist
Protection Engineer
Project Inspector
Project Manager
Refractory Technician
Restoration Technician
Roofer
Specifications Writer
Surveying/Mapping Technician
Surveyor
Terrazzo Finisher
Thermal Technician
Tile and Marble Setter
Utility Metering Technician
Wastewater Maintenance
Welder

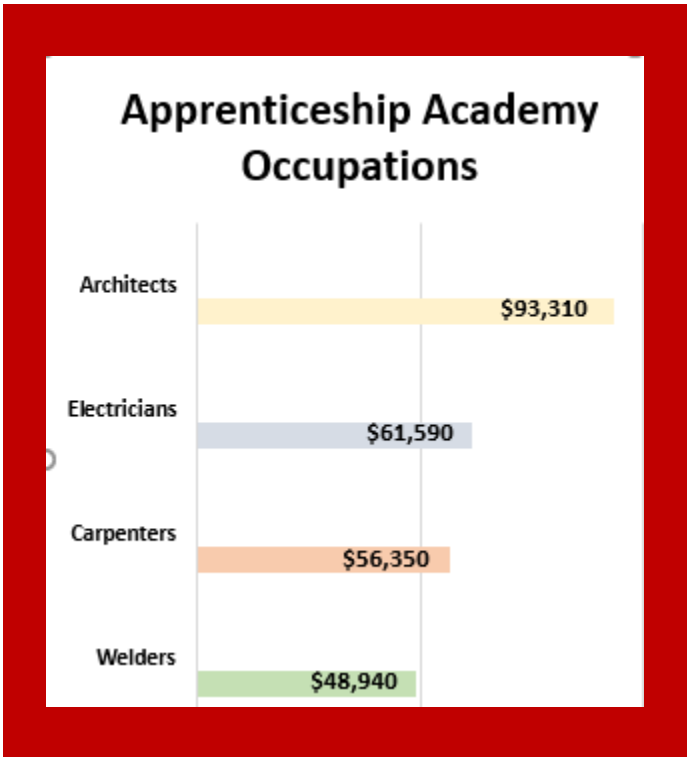
SOURCE CITATION: *Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2019-2020 Edition.*

Architecture and Civil Engineering Occupations

Employment in architecture and engineering occupations is projected to grow 3% from 2019 to 2029, about as fast as the average for all occupations. About 74,800 new jobs are projected to be added. Most of the projected job growth in this group is in the engineer occupations, as their services will be in demand in various areas such as rebuilding of infrastructure, renewable energy, oil and gas extraction, and robotics. The median annual wage for architecture and engineering occupations was $91,420 in May 2023.

Construction and Extraction Occupations

Employment in construction and extraction occupations is projected to grow 4% from 2019 to 2029, about as fast as the average for all occupations, and gain about 296,300 new jobs. Overall growth in the economy and population will increase demand for new buildings, roads, and other structures, which will create new jobs in construction and extraction occupations. The median annual wage for all construction and extraction occupations was $55,680 in May 2023.



Source: US BUREAU OF LABOR STATISTICS, 2023

Some Texas Universities and Colleges with Architecture, Construction and Manufacturing Programs

Alvin Community College
Amarillo College
Baylor University
El Paso Community College
Lamar University
Prairie View A&M
Rice University
South Texas College
Texas A&M University
Texas Southern University
Texas Southmost College
Texas State Technical College
University of Texas at Austin

Architecture and Construction and Manufacturing Industry Recognized Certifications offered in HCISD:

AUTODESK AUTOCAD

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Architecture and Construction Facts

Architecture students typically ranked in the top quarter of their high school class and had a high school GPA of 3.0 or above.

One in every 13 workers in Texas (as averaged) is employed in the state's $54 billion-per-year construction industry.

In 1996, Texas Tech's College of Architecture became the first architecture program in the nation to offer a 173-credit-hour Master of Architecture degree.

According to the National Association of Home Builders, 8.7 million Americans worked in construction as of 2019. Construction workers build residential, commercial and industrial buildings, as well as the infrastructure that makes modern society possible, from roads and bridges to dams and mines.

Rice University is #3 among the Top 10 undergraduate architecture programs in the nation, according to the 2020 ranking by the Design Futures Council.

SOURCE CITATION: *AchieveTexas in Action, Architecture and Construction, 2020 by Texas Education Agency.*

ENDORSEMENT:	**BUSINESS & INDUSTRY**
PROGRAM OF STUDY:	**ARCHITECTURE & CONSTRUCTION/MANUFACTURING**
ACADEMY:	**APPRENTICESHIP ACADEMY**

English (4 credits)	**9th** English I or PAP English I or English I for Speakers of Other Languages
	10th English II or PAP English II or English II for Speakers of Other Languages
	11th English III or AP English III
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* English IV or AP English IV, Independent Study in English, Literary Genres, Creative Writing, Research and Technical Writing, Humanities, Oral Interpretation III, Debate III, Independent Study in Journalism
Mathematics (4 credits)	**9th** Algebra I or PAP Algebra I
	10th Geometry or PAP Geometry with Statistics
	11th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals
	12th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals
Science (4 credits) *(*Credit may not be earned for both Physics and Principles of Technology to satisfy science credit requirements)*	**9th** Biology or PAP Biology
	10th *One credit must be selected from the following laboratory-based courses:* Integrated Physics and Chemistry, Chemistry or PAP Chemistry, Physics or Honors Physics*, Principles of Technology, AP Physics I, AP Chemistry, AP Biology
	11th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:* Chemistry or PAP Chemistry, Physics or Honors Physics*, Aquatic Science, Astronomy, Environmental Systems, AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Environmental Science, Advanced Animal Science, Advanced Plant and Soil Science, Anatomy and Physiology, Medical Microbiology, Pathophysiology, Food Science, Forensic Science, Principles of Technology*
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:* Chemistry or PAP Chemistry, Physics or Honors Physics*, Aquatic Science, Astronomy, Environmental Systems, AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Environmental Science, Advanced Animal Science, Advanced Plant and Soil Science, Anatomy and Physiology, Medical Microbiology, Pathophysiology, Food Science, Forensic Science, Principles of Technology*
Social Studies (3 credits)	**9th** World Geography or PAP World Geography
	10th World History Studies or AP World History Studies or Honors World History Studies
	11th U.S. History Studies since 1877 or AP U.S. History Studies since 1877 or U.S. History Dual Enrollment
	12th U.S. Government or AP U.S. Government & Politics/Economics or U.S. Government Dual Enrollment
Physical Education (1 credit)	*The required credit may be selected from any combination of the following one-half to one credit courses:* Foundations of Personal Fitness, Team or Individual Sports, Athletics, Junior Reserve Officer Training Corps (JROTC), Drill Team, Marching Band (Fall only), Cheerleading
LOTE (2 credits)	*Any two levels in the same language:* Spanish, French or two credits in computer programming languages or Special Topics in Language and Culture
Fine Arts (1 credit)	*One credit must be selected from the following courses*: Art I, Art II, Art III, Art IV, Dance I, Dance II, Dance III, Dance IV, Music I, Music II, Music III, Music IV, Theatre I, Theatre II, Theatre III, Theatre IV
Electives (3 credits)	elective options

PATHWAYS	9th GRADE	10th GRADE	11th GRADE	12th GRADE
ARCHITECTURAL DESIGN	Principles of Construction	Principles of Architecture	Architectural Design I	Architectural Design II
CARPENTRY	Principles of Construction	Principles of Architecture	Construction Technology I	Construction Technology II
ELECTRICAL	Principles of Construction	Principles of Architecture	Electrical Technology I	Electrical Technology II
HVAC & SHEET-METAL	Principles of Construction	Principles of Architecture	HVAC & Refrigeration Technology I	HVAC & Refrigeration Technology II
WELDING	Principles of Construction	Introduction to Welding	Welding I	Welding II & Lab

ENDORSEMENT:	**BUSINESS & INDUSTRY**
PROGRAM OF STUDY:	**ARCHITECTURE & CONSTRUCTION/ MANUFACTURING**
ACADEMY:	**APPRENTICESHIP ACADEMY**

DUAL CREDIT PATHWAYS AT TEXAS STATE TECHNICAL COLLEGE IN HARLINGEN

PATHWAYS	9th GRADE	10th GRADE	11th GRADE	12th GRADE
BUILDING CONSTRUCTION CRAFTSMAN PROGRAM	Principles of Construction	Principles of Architecture	CNBT 1300 - Residential & Light Commercial Blueprint Reading (at TSTC) **Articulated with Construction Technology I (HCISD course)**	CNBT 1313 - Concrete I (at TSTC) **Articulated with Masonry Technology I (HCISD course)**
			CNBT 1316- Construction Technology I (at TSTC) **Articulated with Construction Technology I (HCISD course)**	CNBT 1450 - Construction Technology II (at TSTC) **Articulated with Construction Technology II (HCISD course)**
PRECISION MACHINING PROGRAM	Principles of Construction	Introduction to Welding	MCHN 1302 - Print Reading for Machining Trades (at TSTC) **Precision Metal Manufacturing I (HCISD course)**	MCHN 1300 - Beginning Machine Shop (at TSTC) **Metal Fabrication and Machining II (HCISD course)**
			MCHN 1320 - Precision Tools and Measurement (at TSTC) **Metal Fabrication and Machining I (HCISD course)**	MCHN 1343 - Machine Shop Mathematics (at TSTC) **Precision Metal Manufacturing II (HCISD course)**

Dual Credit

Dual Credit is a system in which an eligible high school student enrolls in college course(s) and receives credit for the course(s) from both the college and high school.

Benefits of taking Dual Credit Courses

- Gain first-hand experience with college-level work while attending high school
- Transition more smoothly between high school and college
- Transfer credits earned in high school to Texas public colleges and universities
- Complete a postsecondary degree faster
- Save money on college tuition

HCISD
AUTOMOTIVE TRAINING ACADEMY

What Automotive Service Technicians and Automotive Body & Glass Repairers Do

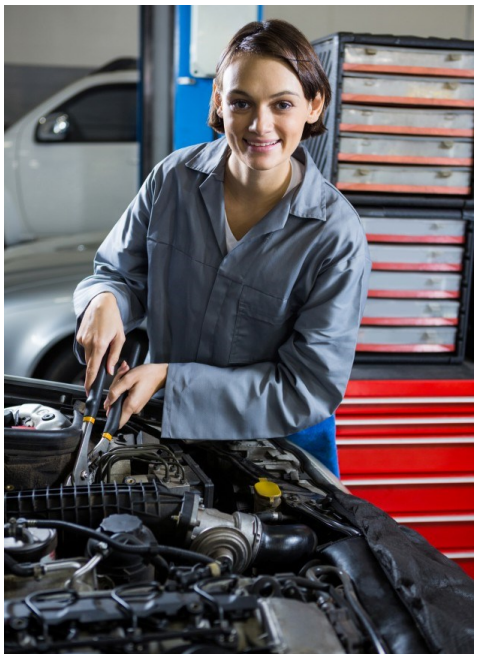
Automotive service technicians and mechanics, often called service technicians or service techs, inspect, maintain, and repair cars and light trucks.

Service technicians work on traditional mechanical components, such as engines, transmissions, and drive belts. However, they also must be familiar with a growing number of electronic systems. Braking, transmission, and steering systems, for example, are controlled primarily by computers and electronic components.

Other integrated electronic systems, such as accident-avoidance sensors, are becoming common as well. In addition, a growing number of technicians are required to work on vehicles that run on alternative fuels, such as ethanol and electricity.

Automotive body and glass repairers restore, refinish, and replace vehicle bodies and frames, windshields, and window glass. Automotive body and glass repairers can repair most damage from vehicle collisions and make vehicles look and drive like new. Damage may be minor, such as replacing a cracked windshield, or major, such as replacing an entire door panel. After a major collision, the underlying frame of a car can become bent out of shape.

Repairers restore the structural integrity of car frames back to manufacturer specifications.



Transportation, Distribution & Logistics

PATHWAYS

- **AUTOMOTIVE (COLLISION-REPAIR SERVICES)**
- **AUTOMOTIVE (AUTOMOTIVE TECHNOLOGY)**
- **AIRCRAFT POWERPLANT TECHNICIAN PROGRAM (DUAL - TSTC)**

Prospective Careers in the Field of Transportation, Distribution and Logistics

Flight Engineer
Flight Attendant
Aircraft Cargo Handling Supervisor
Airfield Operations Specialist Transportation Manager (Rail) Locomotive Engineer
Rail yard Conductor
Switch Operator
Rail yard Engineer
Truck Driver
Delivery Service Driver
Bus Driver (Transit and Intercity)
Logistics Manager
Logistics Engineer
Logistics Analyst
Car, Truck and Ship Loader
Facility Maintenance Manager
Aircraft Mechanic
Aircraft Service Technician
Airframe Mechanic
Automotive Mechanic
Automotive Service Technician
Automotive Master Mechanic
Automotive Technician
Diesel Engine Specialist
Motorcycle Mechanic

SOURCE CITATION: Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2019-2020 Edition.

Installation, Maintenance, Mechanics and Vehicle Body Repair Occupations

Employment in installation, maintenance, and repair occupations is projected to grow 3 percent from 2023 to 2033, about as fast as the average for all occupations, and will result in about 606,200 new jobs. The median annual wage for installation maintenance, and repair occupations was $53,920 in May 2023.

Overall employment of aircraft and avionics equipment mechanics and technicians is projected to grow 5 percent from 2023 to 2033, faster than the average for all occupations. About 13,400 openings for aircraft and avionics equipment mechanics and technicians are projected each year, on average, over the decade.

About 15,700 openings for automotive body and glass repairers are projected each year, on average, over the decade. The best opportunities in automotive body repair will be available for those with industry certification and training in automotive body repair and refinishing, and in collision repair.

Some Texas Universities and Colleges with Transportation, Distribution and Logistics Programs

Vernon College
TSTC – Harlingen
Odessa College
Cisco Campus
Amarillo College
University of North Texas
Alamo College
Lamar University
Del Mar College
University of Texas – Arlington
Houston Community College

Source: US BUREAU OF LABOR STATISTICS, 2023

Transportation, Distribution and Logistics Industry Recognized Certification offered in HCISD:

Transportation, Distribution and Logistics Facts

There are over 80,000 miles of state maintained highways in Texas.

More than 27,000 aircraft and approximately 1,000 helicopters have Texas-based owners.

The Texas Department of Transportation summer employment program gives students training in maintenance, engineering and technical positions.

SOURCE CITATION: AchieveTexas in Action, Transportation, Distribution and Logistics, 2020 by Texas Education Agency.

ENDORSEMENT:	**BUSINESS & INDUSTRY**
PROGRAM OF STUDY:	**TRANSPORTATION, DISTRIBUTION & LOGISTICS**
ACADEMY:	**AUTOMOTIVE TRAINING ACADEMY**

English (4 credits)	**9th** English I or PAP English I or English I for Speakers of Other Languages
	10th English II or PAP English II or English II for Speakers of Other Languages
	11th English III or AP English III
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* English IV or AP English IV, Independent Study in English, Literary Genres, Creative Writing, Research and Technical Writing, Humanities, Oral Interpretation III, Debate III, Independent Study in Journalism
Mathematics (4 credits)	**9th** Algebra I or PAP Algebra I
	10th Geometry or PAP Geometry with Statistics
	11th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals
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Science (4 credits) *(*Credit may not be earned for both Physics and Principles of Technology to satisfy science credit requirements)*	**9th** Biology or PAP Biology
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LOTE (2 credits)	Any two levels in the same language: Spanish, French or two credits in computer programming languages or Special Topics in Language and Culture
Fine Arts (1 credit)	*One credit must be selected from the following courses*: Art I, Art II, Art III, Art IV, Dance I, Dance II, Dance III, Dance IV, Music I, Music II, Music III, Music IV, Theatre I, Theatre II, Theatre III, Theatre IV
Electives (3 credits)	elective options

PATHWAYS	9th GRADE	10th GRADE	11th GRADE	12th GRADE
AUTOMOTIVE (COLLISION-REPAIR SERVICES)	Principles of Transportation Systems	Basic Collision Repair & Refinishing	Collision Repair	Paint and Refinishing/ Lab
AUTOMOTIVE (AUTOMOTIVE TECHNOLOGY)	Principles of Transportation Systems	Automotive Basics	Automotive Technology I: Maintenance and Light Repair	Automotive Technology II: Automotive Service/ Lab

ENDORSEMENT:	BUSINESS & INDUSTRY
PROGRAM OF STUDY:	TRANSPORTATION, DISTRIBUTION & LOGISTICS
ACADEMY:	AUTOMOTIVE TRAINING ACADEMY

PATHWAY	9th GRADE	10th GRADE	11th GRADE	12th GRADE
DIESEL & HEAVY EQUIPMENT TECHNOLOGY	Principles of Transportation Systems	Automotive Basics	Diesel Equipment Technology I	Diesel Equipment Technology II

DUAL CREDIT PATHWAY AT TEXAS STATE TECHNICAL COLLEGE IN HARLINGEN

PATHWAY	9th GRADE	10th GRADE	11th GRADE	12th GRADE
AIRCRAFT POWERPLANT TECHNICIAN PROGRAM	Principles of Transportation Systems	Automotive Basics	AERM 1203 - Shop Practices (at TSTC) AERM 1210 - Ground Operations (at TSTC) **Articulated w/Occupational Safety & Environmental Technology I (HCISD course)**	AERM 1315 - Aviation Science (at TSTC) **Articulated w/Aircraft Powerplant Technology (HCISD course)**
			AERM 1205 - Weight & Balance (at TSTC) AERM 1208 - Federal Aviation Regulations (at TSTC) **Articulated w/Aircraft Airframe Technology (HCISD course)**	AERM 1414 - Basic Electricity (at TSTC) **Articulated w/Aircraft Powerplant Technology (HCISD course)**
PATHWAY	9th GRADE	10th GRADE	11th GRADE	12th GRADE
AUTOMOTIVE MAINTENANCE & LIGHT REPAIR PROGRAM	Principles of Transportation Systems	Automotive Basics	AUMT 1305 - Intro to Automotive Technology (at TSTC) **Articulated w/Small Engine Technology I (HCISD course)**	AUMT 1416 - Suspension and Theory (at TSTC) **Articulated w/Energy and Power of Transportation Systems (HCISD course)**
			AUMT 1307 - Automotive Electrical Systems (at TSTC) **Articulated w/Automotive Technology I (HCISD course)**	AUMT 1310 - Automotive Brake Systems (at TSTC) **Articulated w/Automotive Technology II (HCISD course)**

Dual Credit

Dual Credit is a system in which an eligible high school student enrolls in college course(s) and receives credit for the course(s) from both the college and high school.

Benefits of taking Dual Credit Courses

- Gain first-hand experience with college-level work while attending high school
- Transition more smoothly between high school and college
- Transfer credits earned in high school to Texas public colleges and universities
- Complete a postsecondary degree faster
- Save money on college tuition

What Accountants and Financial Analysts Do

Accountants and Financial Analysts provide guidance to businesses and individuals making investment decisions. They assess the performance of stocks, bonds, and other types of investments. They generally focus on trends affecting a specific industry, geographical region, or type of product.

What Administrative Assistants, and Administrative Service Managers Do

Administrative Assistants perform a variety of clerical and administrative duties that are necessary to run an organization efficiently. Administrative Services Managers plan, direct, and coordinate supportive services of an organization.

What Cosmetologists Do

Barbers, hairdressers, and cosmetologists provide hair and beauty services to enhance clients' appearance. Those who operate their own barbershop or salon have managerial duties that may include hiring, supervising, as well as keeping business and inventory records, ordering supplies, and arranging for advertising.

PATHWAYS

- ◊ **ACCOUNTING AND FINANCIAL SERVICES**
- ◊ **BUSINESS MANAGEMENT**
- ◊ **COSMETOLOGY AND PERSONAL CARE SERVICES**

What Chefs and Head Cooks Do

Chefs and head cooks oversee the daily food preparation at restaurants and other places where food is served. They direct kitchen staff and handle any food-related concerns. They use a variety of kitchen and cooking equipment, including step-in coolers, high-quality knives, meat slicers, and grinders. They also have access to large quantities of meats, spices, and produce. Some chefs run their own restaurant or catering business.

What Advertising, Promotions, and Marketing Managers Do

Investing is becoming more global, and some financial analysts specialize in a particular country or region. Companies want those financial analysts to understand the language, culture, business environment, and political conditions in the country or region that they cover.

Advertising, Promotions, and Marketing Managers plan programs to generate interest in a product or service. They work with art directors, sales agents, and financial staff members. They typically initiate market research studies and analyze their findings to understand customer and market opportunities for businesses and develop pricing strategies for products or services marketed to the target customers of a firm.

Hospitality & Tourism

Marketing

PATHWAYS

- ◊ **CULINARY ARTS**
- ◊ **ENTREPRENEURSHIP**
- ◊ **MARKETING AND SALES**

Prospective Careers in the Field of Business Management, Financial Services, Cosmetology, Culinary Arts and Marketing

Entrepreneur
Chief Executive Officer
General Manager
Accounting Manager
Accounts Payable Manager
Assistant Credit Manager
Billing Manager
Business Manager
Credit and Collections Manager
Payroll Manager
Risk Manager
Public Relations Manager
Auditor and Appraiser
Human Resource Manager
Small Business Owner
Financial Advisor
Tax Preparation Specialist
Sales Agent- Securities
Investment Advisor
Stock Broker
Accountant
Financial Analyst
Loan Officer
Marketing Services Manager
Cosmetologist
Barber
Hairdresser
Hair Stylists
Manicurist
Personal Beautician
Skin-care Specialist
Professional Make-Up Artist
Restaurant General Manager
Food and Beverage Manager
Catering and Banquets Manager
Restaurant Owner
Baker
Caterer
Dietician
Executive Chef
Head Cook
Host/Hostess

SOURCE CITATION: *Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2019-2020 Edition.*

Business Management, Financial Services, Cosmetology, Culinary Arts and Marketing Occupations

Employment in business and financial operations occupations is projected to grow in 2023 faster than the average for all occupations, adding about 963,500 new jobs. Globalization, a growing economy, and a complex tax and regulatory environment are expected to continue to lead to strong demand for accountants and auditors. In addition, increasing usage of data and market research in order to understand customers and product demand, and to evaluate marketing strategies, will lead to growing demand for market research analysts. This median annual wage for business and financial occupations was $79,500 in May 2023

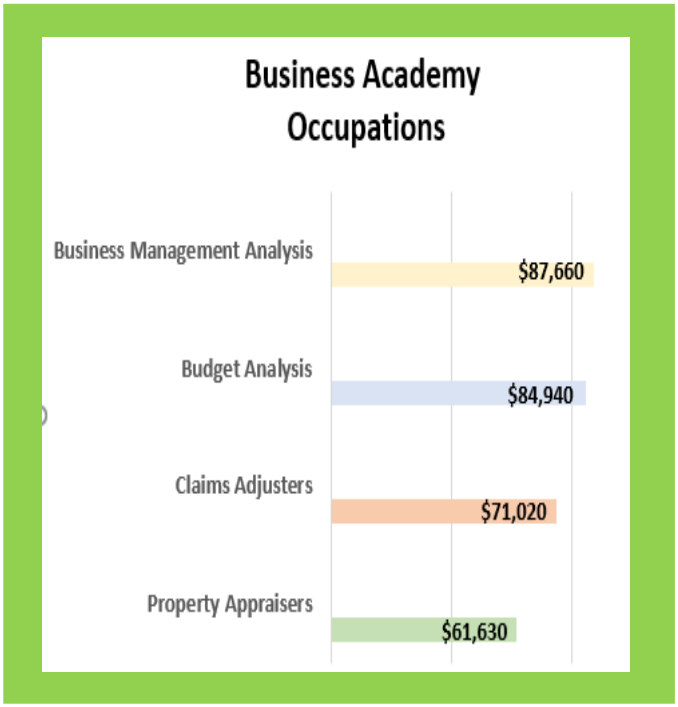
Employment in personal care and service occupations is projected to grow 8 percent from 2023 to 2033, much faster than the average for all occupations. This employment growth is expected to result in about 794,500 new jobs. Personal care and service occupations had a median annual wage of $234,260 in May 2023.

Employment in food preparation and serving related occupations is projected to grow 7 percent from 2023 to 2033, faster than the average for all occupations, and gain about 2.7 million jobs. Population and income growth are expected to result in greater consumer demand for food at a variety of dining places, including restaurants and grocery stores.

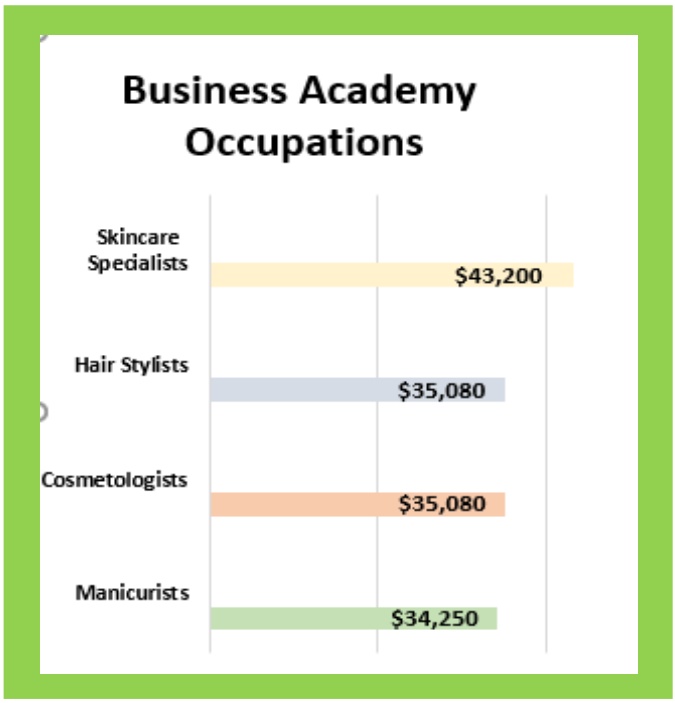
The Business Academy is extremely diverse, consisting of several differing Programs of Study. The commonality between them is the added value of a formal education in the area of Business of which enhances each student's marketability.

Some Texas Universities and Colleges with Business Management Programs

Baylor University
Coastal Bend College
Prairie View A&M
Rawls College of Business
South Texas College
Texas Tech University
Texas A & M University
University Of Texas-Austin
UT-RGV
Texas State University



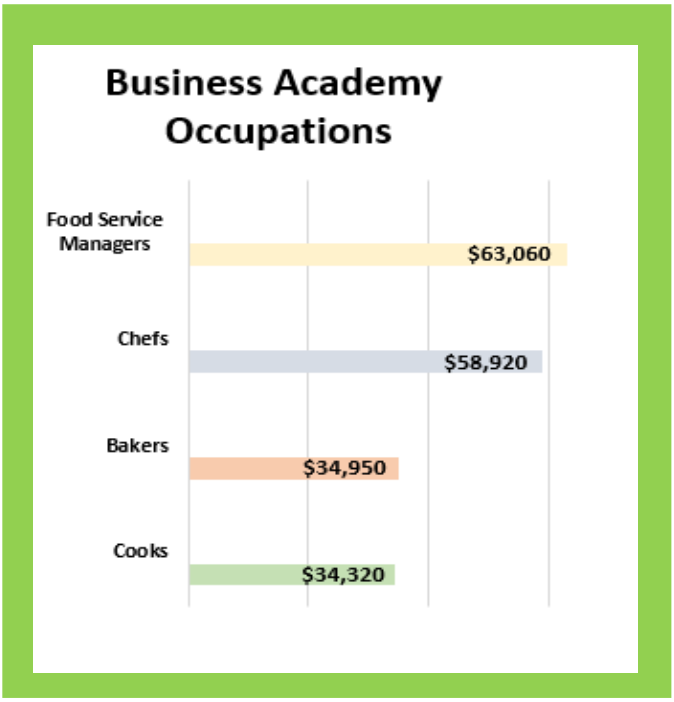
Source: US BUREAU OF LABOR STATISTICS, 2023



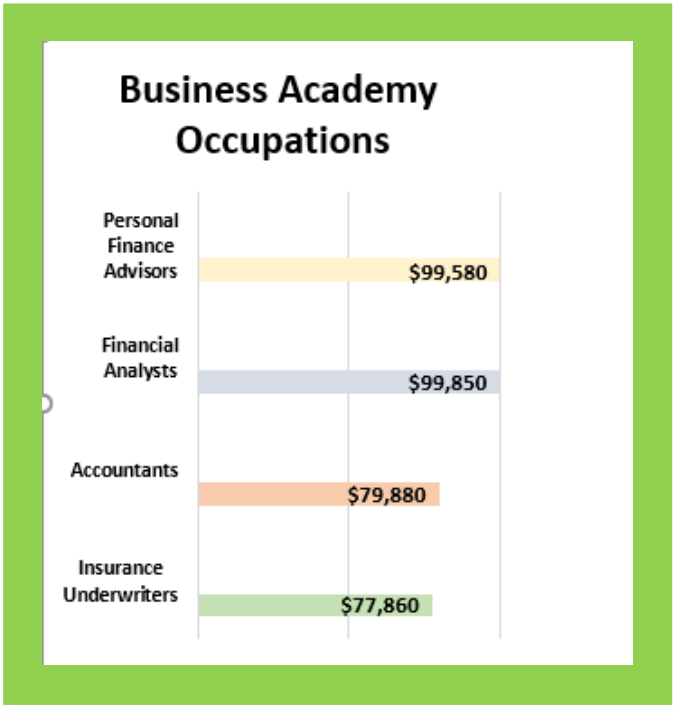
Source: US BUREAU OF LABOR STATISTICS, 2023

Business Industry Recognized Certifications offered in HCISD:

Cosmetology Industry Recognized Certification offered in HCISD:



Source: US BUREAU OF LABOR STATISTICS, 2023



Source: US BUREAU OF LABOR STATISTICS, 2023

Hospitality & Tourism Industry Recognized Certification offered in HCISD:

ServSafe

Finance, Marketing and Entrepreneurship Industry Recognized Certification offered in HCISD:

ENDORSEMENT:	**BUSINESS & INDUSTRY**
PROGRAM OF STUDY:	**BUSINESS, MARKETING AND FINANCE/HUMAN SERVICES**
ACADEMY:	**BUSINESS ACADEMY**

English (4 credits)	**9th** English I or PAP English I or English I for Speakers of Other Languages
	10th English II or PAP English II or English II for Speakers of Other Languages
	11th English III or AP English III
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* English IV or AP English IV, Independent Study in English, Literary Genres, Creative Writing, Research and Technical Writing, Humanities, Oral Interpretation III, Debate III, Independent Study in Journalism
Mathematics (4 credits)	**9th** Algebra I or PAP Algebra I
	10th Geometry or PAP Geometry with Statistics
	11th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals
	12th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals
Science (4 credits) *(*Credit may not be earned for both Physics and Principles of Technology to satisfy science credit requirements)*	**9th** Biology or PAP Biology
	10th *One credit must be selected from the following laboratory-based courses:* Integrated Physics and Chemistry, Chemistry or PAP Chemistry, Physics or Honors Physics*, Principles of Technology, AP Physics I, AP Chemistry, AP Biology
	11th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:* Chemistry or PAP Chemistry, Physics or Honors Physics*, Aquatic Science, Astronomy, Environmental Systems, AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Environmental Science, Advanced Animal Science, Advanced Plant and Soil Science, Anatomy and Physiology, Medical Microbiology, Pathophysiology, Food Science, Forensic Science, Principles of Technology*
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:* Chemistry or PAP Chemistry, Physics or Honors Physics*, Aquatic Science, Astronomy, Environmental Systems, AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Environmental Science, Advanced Animal Science, Advanced Plant and Soil Science, Anatomy and Physiology, Medical Microbiology, Pathophysiology, Food Science, Forensic Science, Principles of Technology*
Social Studies (3 credits)	**9th** World Geography or PAP World Geography
	10th World History Studies or AP World History Studies or Honors World History Studies
	11th U.S. History Studies since 1877 or AP U.S. History Studies since 1877 or U.S. History Dual Enrollment
	12th U.S. Government or AP U.S. Government & Politics/Economics or U.S. Government Dual Enrollment
Physical Education (1 credit)	*The required credit may be selected from any combination of the following one-half to one credit courses:* Foundations of Personal Fitness, Team or Individual Sports, Athletics, Junior Reserve Officer Training Corps (JROTC), Drill Team, Marching Band (Fall only), Cheerleading
LOTE (2 credits)	Any two levels in the same language: Spanish, French or two credits in computer programming languages or Special Topics in Language and Culture
Fine Arts (1 credit)	*One credit must be selected from the following courses*: Art I, Art II, Art III, Art IV, Dance I, Dance II, Dance III, Dance IV, Music I, Music II, Music III, Music IV, Theatre I, Theatre II, Theatre III, Theatre IV
Electives (3 credits)	elective options

PATHWAYS	9th GRADE	10th GRADE	11th GRADE	12th GRADE
ACCOUNTING/ FINANCIAL SERVICES	Principles of Business, Marketing, and Finance	Accounting I or Money Matters	Accounting II or Accounting I	Practicum in Business Management/Extended Practicum
BUSINESS MANAGEMENT	Business Information Management I	Business Information Management II	Business Management	Practicum in Business Management/Extended Practicum or Global Business and Human Resource Management
COSMETOLOGY	Principles of Human Services	Introduction to Cosmetology	Cosmetology I	Cosmetology II

ENDORSEMENT:	**BUSINESS & INDUSTRY**
PROGRAM OF STUDY:	**BUSINESS, MARKETING AND FINANCE/HOSPITALITY & TOURISM**
ACADEMY:	**BUSINESS ACADEMY**

English (4 credits)	**9th** English I or PAP English I or English I for Speakers of Other Languages
	10th English II or PAP English II or English II for Speakers of Other Languages
	11th English III or AP English III
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* English IV or AP English IV, Independent Study in English, Literary Genres, Creative Writing, Research and Technical Writing, Humanities, Oral Interpretation III, Debate III, Independent Study in Journalism
Mathematics (4 credits)	**9th** Algebra I or PAP Algebra I
	10th Geometry or PAP Geometry with Statistics
	11th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals
	12th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals
Science (4 credits) *(*Credit may not be earned for both Physics and Principles of Technology to satisfy science credit requirements)*	**9th** Biology or PAP Biology
	10th *One credit must be selected from the following laboratory-based courses:* Integrated Physics and Chemistry, Chemistry or PAP Chemistry, Physics or Honors Physics*, Principles of Technology, AP Physics I, AP Chemistry, AP Biology
	11th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:* Chemistry or PAP Chemistry, Physics or Honors Physics*, Aquatic Science, Astronomy, Environmental Systems, AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Environmental Science, Advanced Animal Science, Advanced Plant and Soil Science, Anatomy and Physiology, Medical Microbiology, Pathophysiology, Food Science, Forensic Science, Principles of Technology*
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:* Chemistry or PAP Chemistry, Physics or Honors Physics*, Aquatic Science, Astronomy, Environmental Systems, AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Environmental Science, Advanced Animal Science, Advanced Plant and Soil Science, Anatomy and Physiology, Medical Microbiology, Pathophysiology, Food Science, Forensic Science, Principles of Technology*
Social Studies (3 credits)	**9th** World Geography or PAP World Geography
	10th World History Studies or AP World History Studies or Honors World History Studies
	11th U.S. History Studies since 1877 or AP U.S. History Studies since 1877 or U.S. History Dual Enrollment
	12th U.S. Government or AP U.S. Government & Politics/Economics or U.S. Government Dual Enrollment
Physical Education (1 credit)	*The required credit may be selected from any combination of the following one-half to one credit courses:* Foundations of Personal Fitness, Team or Individual Sports, Athletics, Junior Reserve Officer Training Corps (JROTC), Drill Team, Marching Band (Fall only), Cheerleading
LOTE (2 credits)	Any two levels in the same language: Spanish, French or two credits in computer programming languages or Special Topics in Language and Culture
Fine Arts (1 credit)	*One credit must be selected from the following courses*: Art I, Art II, Art III, Art IV, Dance I, Dance II, Dance III, Dance IV, Music I, Music II, Music III, Music IV, Theatre I, Theatre II, Theatre III, Theatre IV
Electives (3 credits)	elective options

PATHWAYS	9th GRADE	10th GRADE	11th GRADE	12th GRADE
CULINARY ARTS	Principles of Hospitality and Tourism	Introduction to Culinary Arts	Culinary Arts	Advanced Culinary Arts
ENTRPRENEURSHIP	Principles of Business, Marketing, and Finance	Entrepreneurship I or Business Management I	Entrepreneurship II or Entrepreneurship I	Practicum in Business Management/Extended Practicum or Entrepreneurship II
MARKETING & SALES	Principles of Business, Marketing, and Finance	Marketing or Entrepreneurship I	Advanced Marketing or Marketing	Practicum in Marketing/ Extended Practicum or Advanced Marketing

HCISD
Firefighter Academy

What Firefighters Do

Firefighters control and put out fires and respond to emergencies where life, property, or the environment is at risk.

Firefighters typically do the following:

- Drive fire trucks and other emergency vehicles
- Put out fires using water hoses, fire extinguishers, and water pumps
- Find and rescue victims in burning buildings or in other emergency situations
- Treat sick or injured people
- Prepare written reports on emergency incidents
- Clean and maintain equipment
- Conduct drills and physical fitness training

When responding to an emergency, firefighters are responsible for connecting hoses to hydrants, operating the pumps that power the hoses, climbing ladders, and using other tools to break through debris. Firefighters also enter burning buildings to extinguish fires and rescue individuals. Many firefighters are responsible for providing medical attention. Two out of three calls to firefighters are for medical emergencies, not fires, according to the National Fire Protection Association.

When firefighters are not responding to an emergency, they are on call at a fire station. During this time, they regularly inspect equipment and perform practice drills. They also eat and sleep and remain on call, as their shifts usually last 24 hours. Some firefighters may provide public education about fire safety, such as presenting about fire safety at a schools.

Law, Public Safety, Corrections & Security

PATHWAY

◊ **FIREFIGHTING**

Prospective Careers in the Field of Firefighting

Emergency Medical Technician
Paramedic
Fire Inspectors
Fire Marshal
Arson Investigator
Forest and Conservationist
Hazardous Materials Removal Worker
Police Officer
Emergency Dispatcher
Fire Administrator
Fire Trainer
Firefighter
Medical Assistant
Physician Assistant
Emergency Management Director
Health Technologist
First Responders

SOURCE CITATION: *Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2019-2020 Edition, Firefighting Occupations.*

Firefighting Occupations

Employment of firefighters is projected to grow 6 percent from 2019 to 2029, faster than the average for all occupations.

Fires can spread rapidly, so controlling them quickly is very important. Wildland firefighters will still be needed to combat active fires and manage the environment to reduce the impact of fires. Firefighters will also continue to respond to medical emergencies.

When responding to an emergency, these workers often wear protective gear, which can be very heavy and hot. When not on the scene of an emergency, firefighters work at fire stations, where they sleep, eat, work on equipment, and remain on call. Whenever an alarm sounds, firefighters respond, regardless of the weather or time of day.

Some Texas Universities and Colleges with Fire Science Programs

South Plains College

Midland College

Hill College

Odessa College

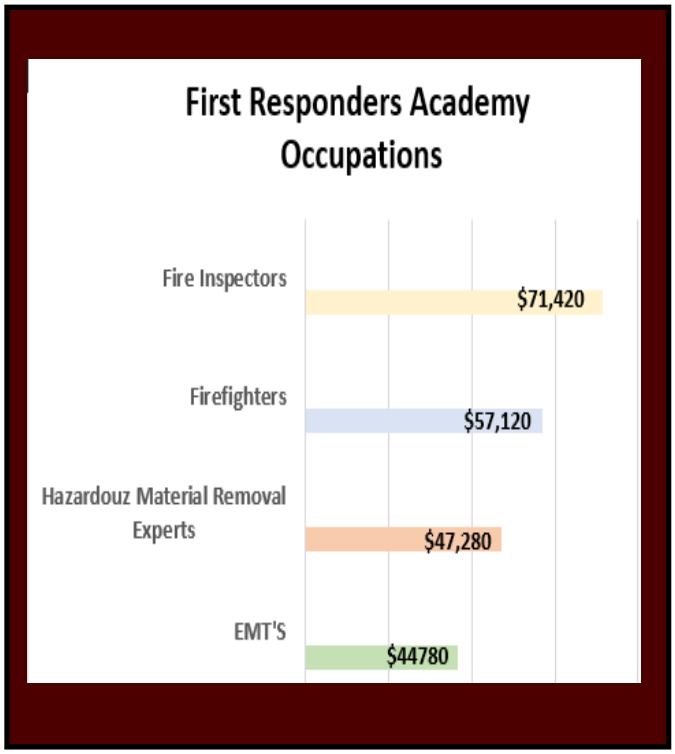
Tyler Junior College

Amarillo College

San Antonio College

McLennan Community College

Southwestern Adventist University



Source: US BUREAU OF LABOR STATISTICS, 2023

Firefighting Industry Recognized Certification offered in HCISD:

Firefighting Facts

The estimated number of firefighters working in the U.S. is 1,134,400. Of that number, 346,150 are career firefighters and 788,250 are volunteers.

Seventy percent of career firefighters are working in communities with a population of 25,000 or more. This firefighter statistic reflects the fact that the population density is relational to the number of firefighters needed to protect the community.

There were 1,345,500 building structure fires in 2015. Of those fires, an estimated property loss of $14.3 billion was reported.

There are 29,980 fire departments in the U.S.

SOURCE CITATION: firerescue1, 2018 by International Fire Chiefs Association.

ENDORSEMENT:	**PUBLIC SERVICE**
PROGRAM OF STUDY:	**LAW AND PUBLIC SERVICE**
ACADEMY:	**FIREFIGHTER ACADEMY**

English (4 credits)	**9th** English I or PAP English I or English I for Speakers of Other Languages
	10th English II or PAP English II or English II for Speakers of Other Languages
	11th English III or AP English III
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* English IV or AP English IV, Independent Study in English, Literary Genres, Creative Writing, Research and Technical Writing, Humanities, Oral Interpretation III, Debate III, Independent Study in Journalism
Mathematics (4 credits)	**9th** Algebra I or PAP Algebra I
	10th Geometry or PAP Geometry with Statistics
	11th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals
	12th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals
Science (4 credits) *(*Credit may not be earned for both Physics and Principles of Technology to satisfy science credit requirements)*	**9th** Biology or PAP Biology
	10th *One credit must be selected from the following laboratory-based courses:* Integrated Physics and Chemistry, Chemistry or PAP Chemistry, Physics or Honors Physics*, Principles of Technology, AP Physics I, AP Chemistry, AP Biology
	11th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:* Chemistry or PAP Chemistry, Physics or Honors Physics*, Aquatic Science, Astronomy, Environmental Systems, AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Environmental Science, Advanced Animal Science, Advanced Plant and Soil Science, Anatomy and Physiology, Medical Microbiology, Pathophysiology, Food Science, Forensic Science, Principles of Technology*
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:* Chemistry or PAP Chemistry, Physics or Honors Physics*, Aquatic Science, Astronomy, Environmental Systems, AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Environmental Science, Advanced Animal Science, Advanced Plant and Soil Science, Anatomy and Physiology, Medical Microbiology, Pathophysiology, Food Science, Forensic Science, Principles of Technology*
Social Studies (3 credits)	**9th** World Geography or PAP World Geography
	10th World History Studies or AP World History Studies or Honors World History Studies
	11th U.S. History Studies since 1877 or AP U.S. History Studies since 1877 or U.S. History Dual Enrollment
	12th U.S. Government or AP U.S. Government & Politics/Economics or U.S. Government Dual Enrollment
Physical Education (1 credit)	*The required credit may be selected from any combination of the following one-half to one credit courses:* Foundations of Personal Fitness, Team or Individual Sports, Athletics, Junior Reserve Officer Training Corps (JROTC), Drill Team, Marching Band (Fall only), Cheerleading
LOTE (2 credits)	Any two levels in the same language: Spanish, French or two credits in computer programming languages or Special Topics in Language and Culture
Fine Arts (1 credit)	*One credit must be selected from the following courses*: Art I, Art II, Art III, Art IV, Dance I, Dance II, Dance III, Dance IV, Music I, Music II, Music III, Music IV, Theatre I, Theatre II, Theatre III, Theatre IV
Electives (3 credits)	elective options

PATHWAY	9th GRADE	10th GRADE	11th GRADE	12th GRADE
FIREFIGHTING	Principles of Law, Public Safety, Corrections, and Security	Disaster Response **APPLICATION NEEDED FOR ENROLLMENT 11TH-12TH**	Firefighter I	Firefighter II

HEALTH SCIENCE ACADEMY

What Nurses, Pharmacists, Dentists, Physicians, Medical Scientists, Athletic Trainers and Surgeons Do

Licensed practical nurses (LPNs) and licensed vocational nurses (LVNs) provide basic nursing care. They work under the direction of registered nurses and doctors. Registered nurses (RNs) provide and coordinate patient care, educate patients and the public about various health conditions, and provide advice and emotional support to patients and their family members.

Pharmacists dispense prescription medications to patients and offer expertise in the safe use of prescriptions. They also may provide advice on how to lead a healthy lifestyle, conduct health and wellness screenings, provide immunizations, and oversee the medications given to patients.

Dentists diagnose and treat problems with a patient's teeth, gums, and related parts of the mouth.

Physicians and surgeons diagnose and treat injuries or illnesses. Physicians examine patients; take medical histories; prescribe medications; and order, perform, and interpret diagnostic tests. Surgeons operate on patients to treat injuries, such as broken bones; diseases and deformities.

Medical scientists conduct research aimed at improving overall human health. They often use clinical trials and other investigative methods to reach their findings.

Athletic trainers specialize in preventing, diagnosing, and treating muscle and bone injuries and illnesses. They develop fitness and exercise programs that help patients recover from chronic diseases and improve cardiovascular function, body composition, and flexibility.

Health Science

PATHWAYS

- **NURSING SCIENCE (CMA)**
- **DIAGNOSTIC & HEALTHCARE THERAPEUTIC SERVICES (DENTAL ASSISTANT)**
- **DIAGNOSTIC & HEALTHCARE THERAPEUTIC SERVICES (PHARMACY TECHNICIAN)**
- **HEALTH INFORMATION TECHNOLOGY (MEDICAL OFFICE SPECIALIST) (DUAL– TSTC)**
- **BIOMEDICALEQUIPMENT TECHNOLOGY PROGRAM (DUAL— TSTC)**

Prospective Careers in the Field of Health Science

Acupuncturist
Anesthesiologist/Assistant
Anesthesia Technologist
Athletic Trainer
Applied Researcher
Compliance Technician
Clinical Account Manager
Clinical Account Technician
Clinical Data Specialist
Data Quality Manager
Epidemiologist
Ethicist
Health Information Management
Biochemist
Bioinformatics Scientist
Biomedical Chemist
Biomedical Manufacturing Technician
Cancer Registrar
Cell Biologist
Clinical Data Management Specialist
Crime Scene Investigator
Forensic Biologist
Forensic Chemist
Geneticist-Lab Assistant
Lab Technician
Medical Editor/Writer
Microbiologist
Molecular Biologist
Nurse Researcher
Packaging Technician
Pharmaceutical Scientist
Pharmacologist
Research Assistant
Research Scientist
Toxicologist

SOURCE CITATION: *Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2019-2020 Edition, Health Science occupations.*

Health Science Occupations

Employment in healthcare occupations is projected to grow 15 percent from 2019 to 2029, much faster than the average for all occupations, adding about 2.4 million new jobs.

As the baby-boom population ages, the overall need for healthcare services is expected to increase. Employment of licensed practical and licensed vocational nurses is projected to grow 25 percent from 2012 to 2022, much faster than the average for all occupations. The employment of registered nurses is projected to grow 19 percent from 2012 to 2022. Employment of pharmacists is projected to grow 14 percent from 2012 to 2022. Several factors are likely to contribute to this increase. The population is aging, and older people typically use more prescription medicines than younger people. Higher rates of chronic diseases such as diabetes among all age groups will also lead to increased demand for prescription medications. In addition, scientific advances will lead to new drug products. As healthcare continues to become more complex and as more people take multiple medications, more pharmacists will be needed to dispense medications and to counsel patients on how to use their medications safely and effectively.

Licensed practical and licensed vocational nurses held about 738,400 jobs in 2012. As the largest healthcare occupation, registered nurses held about 2.7 million jobs in 2012. Pharmacists held about 286,400 jobs in 2012. Dentists held about 146,800 jobs in 2012.

Physicians and surgeons held about 691,400 jobs in 2012. Many physicians work in private offices or clinics, often with a small staff of nurses and administrative personnel. Some practice independently or with a small group of other doctors. Increasingly, physicians are working in group practices, healthcare organizations, or hospitals, where they share a large number of patients with other doctors. Medical scientists held about 103,100 jobs in 2012.

Employment of dentists is projected to grow 16 percent from 2012 to 2022, faster than the average for all occupations. Many members of the baby-boom generation will need complicated dental work. In addition, because each generation is more likely to keep their teeth than past generations, more dental care will be needed in the years to come.

Athletic trainers held about 22,900 jobs in 2012. Exercise physiologists held about 6,000 jobs in 2012. As people become more aware of sports-related injuries at a young age, demand for athletic trainers is expected to increase, most significantly in colleges, universities, and youth leagues.

Health Science Industry Recognized Certification offered in HCISD:

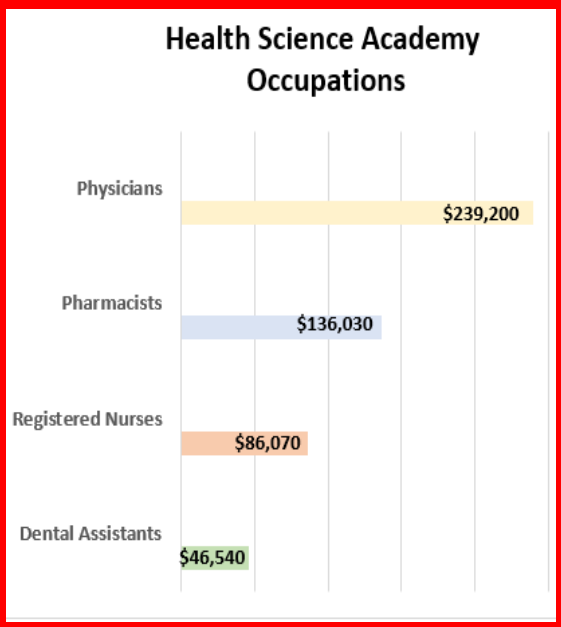
Health Science Facts

In 2019, there were 43,000 licensed physicians and 8,847 licensed dental hygienists actively practicing in Texas for a population of about 23 million.

More than 950 heart transplants have been performed at one of Houston's largest transplant centers.

In Texas, 6,877 physicians specialize in internal medicine, the most popular specialty among the state's medical doctors.

SOURCE CITATION: AchieveTexas in Action, Health Science, 2020 by Texas Education Agency.



Source: US BUREAU OF LABOR STATISTICS, 2023

ENDORSEMENT:	**PUBLIC SERVICE**
PROGRAM OF STUDY:	**HEALTH SCIENCE**
ACADEMY:	**HEALTH SCIENCE ACADEMY**

English (4 credits)	**9th** English I or PAP English I or English I for Speakers of Other Languages
	10th English II or PAP English II or English II for Speakers of Other Languages
	11th English III or AP English III
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* English IV or AP English IV, Independent Study in English, Literary Genres, Creative Writing, Research and Technical Writing, Humanities, Oral Interpretation III, Debate III, Independent Study in Journalism
Mathematics (4 credits)	**9th** Algebra I or PAP Algebra I
	10th Geometry or PAP Geometry with Statistics
	11th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals
	12th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals
Science (4 credits) *(*Credit may not be earned for both Physics and Principles of Technology to satisfy science credit requirements)*	**9th** Biology or PAP Biology
	10th *One credit must be selected from the following laboratory-based courses:* Integrated Physics and Chemistry, Chemistry or PAP Chemistry, Physics or Honors Physics*, Principles of Technology, AP Physics I, AP Chemistry, AP Biology
	11th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:* Chemistry or PAP Chemistry, Physics or Honors Physics*, Aquatic Science, Astronomy, Environmental Systems, AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Environmental Science, Advanced Animal Science, Advanced Plant and Soil Science, Anatomy and Physiology, Medical Microbiology, Pathophysiology, Food Science, Forensic Science, Principles of Technology*
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Social Studies (3 credits)	**9th** World Geography or PAP World Geography
	10th World History Studies or AP World History Studies or Honors World History Studies
	11th U.S. History Studies since 1877 or AP U.S. History Studies since 1877 or U.S. History Dual Enrollment
	12th U.S. Government or AP U.S. Government & Politics/Economics or U.S. Government Dual Enrollment
Physical Education (1 credit)	*The required credit may be selected from any combination of the following one-half to one credit courses:* Foundations of Personal Fitness, Team or Individual Sports, Athletics, Junior Reserve Officer Training Corps (JROTC), Drill Team, Marching Band (Fall only), Cheerleading
LOTE (2 credits)	Any two levels in the same language: Spanish, French or two credits in computer programming languages or Special Topics in Language and Culture
Fine Arts (1 credit)	*One credit must be selected from the following courses*: Art I, Art II, Art III, Art IV, Dance I, Dance II, Dance III, Dance IV, Music I, Music II, Music III, Music IV, Theatre I, Theatre II, Theatre III, Theatre IV
Electives (3 credits)	elective options

PATHWAYS	9th GRADE	10th GRADE	11th GRADE	12th GRADE
NURSING SCIENCE (CMA)	Principles of Health Science	Medical Terminology	Health Science Theory	Practicum in Health Science I and Extended Practicum OR Anatomy and Physiology and/or Pathophysiology and/or Medical Microbiology
HEALTHCARE THERAPEUTIC (DENTAL ASSISTING)	Principles of Health Science	Medical Terminology	Health Science Theory	Practicum in Health Science I and Extended Practicum OR Anatomy and Physiology and/or Pathophysiology and/or Medical Microbiology
HEALTHCARE THERAPEUTIC (PHARMACY TECHNICIAN)	Principles of Health Science	Medical Terminology	Health Science Theory	Practicum in Health Science I and Extended Practicum Or Anatomy and Physiology and/or Pathophysiology and/or Medical Microbiology

HEALTH SCIENCE ACADEMY

AT THE HARLINGEN SCHOOL OF HEALTH PROFESSIONS

Health Science

PATHWAYS

- ◊ **NURSING SCIENCE (CMA)**
- ◊ **NURSING SCIENCE (LVN)**
- ◊ **HEALTHCARE THERAPEUTIC (REGISTERED DENTAL ASSISTANT)**
- ◊ **HEALTHCARE THERAPEUTIC (PHARMACY TECHNICIAN)**

ENDORSEMENT:	**PUBLIC SERVICE**
PROGRAM OF STUDY:	**HEALTH SCIENCE**
ACADEMY:	**HEALTH SCIENCE ACADEMY**

English (4 credits)	**8th**	Reading Language Arts PAP
	9th	PAP English I
	10th	PAP English II
	11th	English III or AP English III
	12th	English IV or AP English IV
Mathematics (4 credits)	**8th**	Algebra I or PAP Algebra I
	9th	PAP Geometry with Statistics
	10th	Honors Algebra II
	11th	Honors Pre-Calculus or AP Statistics
	12th	AP Calculus (AB) or AP Statistics
Science (4 credits)	**8th**	PAP Biology
	9th	PAP Chemistry
	10th	Honors Physics or AP Biology or AP Chemistry or AP Physics
	11th	Honors Physics or AP Biology or AP Chemistry or AP Physics
	12th	Honors Physics or AP Biology or AP Chemistry or AP Physics
Social Studies (3 credits)	**8th**	Pre-AP Social Studies
	9th	PAP World Geography
	10th	AP World History Studies
	11th	U.S. History Studies since 1877 or AP U.S. History Studies since 1877
	12th	U.S. Government or AP U.S. Government & Politics/Economics
Physical Education (1 credit)	**8th**	P.E.
	9th	P.E.
Science Elective (3 credits)	**9th**	Pathophysiology or Medical Microbiology or Anatomy & Physiology
	10th	Pathophysiology or Medical Microbiology or Anatomy & Physiology
	11th	Pathophysiology or Medical Microbiology or Anatomy & Physiology
	12th	Pathophysiology or Medical Microbiology or Anatomy & Physiology
Speech (1 credit)	Professional Communications/Debate I	
LOTE (2 credits)	**8th**	n/a
	9th	Spanish I or Spanish II
	10th	Spanish II or Honors Spanish III
	11th	Honors Spanish III
	12th	AP Spanish IV
Fine Arts (1 credit)	*One credit must be selected from the following courses*: Digital Art & Animation, AV Technology, or AP Art History	
Electives (2 credits)	*Two and one-half credits must be selected from the following courses:* Literary Genres, World Health Research or Math for Medical Professionals, Digital Art & Animation, AV Technology, AP Art History, AP Psychology, or AP Sociology	
College Readiness	Phoenix Time, Practical Writing, College Transition, College Readiness/SAT Prep, College Prep (ELA) or (MATH)	

PATHWAYS	8th GRADE	9th GRADE	10th GRADE	11th GRADE	12th GRADE
NURSING SCIENCE (CMA)	Principles of Health Science	Medical Terminology	Health Science Theory and/or World Health Emerging Technologies	Practicum in Health Science I and Extended Practicum	Practicum in Health Science II and Extended Practicum
NURSING SCIENCE (LVN)	Principles of Health Science	Medical Terminology	Health Science Theory and Anatomy & Physiology	Practicum in Health Science I and Extended Practicum	Practicum in Health Science II and Extended Practicum
HEALTHCARE THERAPEUTIC (DENTAL ASSISTING)	Principles of Health Science	Medical Terminology	Health Science Theory and/or World Health Emerging Technologies	Practicum in Health Science I and Extended Practicum	Practicum in Health Science II and Extended Practicum
HEALTHCARE THERAPEUTIC (PHARMACY TECHNICIAN)	Principles of Health Science	Medical Terminology	Health Science Theory and/or World Health Emerging Technologies	Practicum in Health Science I and Extended Practicum	Practicum in Health Science II and Extended Practicum

Information Technology Academy

What Computer System Analyst, Computer Support Specialists and Computer Programmers Do

Computer systems analysts study an organization's current computer systems and procedures and design information systems solutions to help the organization operate more efficiently and effectively. They bring business and information technology (IT) together by understanding the needs and limitations of both.

Computer support specialists provide help and advice to people and organizations using computer software or equipment. Some, called computer network support specialists, support information technology (IT) employees within their organization. Others, called computer user support specialists, assist non-IT users who are having computer problems.

Computer programmers write code to create software programs. They turn the program designs created by software developers and engineers into instructions that a computer can follow. They work closely with software developers, and in some businesses, their duties overlap. When this happens, programmers can do work that is typical of developers, such as designing the program.

This entails initially planning the software, creating models and flowcharts detailing how the code is to be written, writing and debugging code, and designing an application or systems interface.

Information Technology

PATHWAYS

- **CYBERSECURITY**
- **WEB DEVELOPMENT**

Prospective Careers in the Field of Information Technology

Communications Analyst
IT Engineer
Network Consulting
Pre-Sales Engineer
Telecommunications Network Technician
Database Development Administrator
Database Administration Associate
Security Expert
DSS (Decision Support Services)
Telecommunicator
Publications Manager Writer
Technical Support Technician
Call Center Support Representative
Customer Liaison Service Representative
Help Desk Technician Maintenance Technician
PC Support Specialist
Web Designer
Web Administrator
Webmaster
Web Developer
Social Networking Specialist
Blog Developer
Software Engineering
Computer Engineer
Data Modeler
Operating System: Designer/Engineer
Program Manager
Programmer/Analyst
Software Applications Specialist

SOURCE CITATION: *Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2019-2020 Edition, Information Technology Occupations.*

Computer & Information Technology Occupations

Employment in computer and information technology occupations is projected from 2023 to 2033, much faster than the average for all occupations. These occupations are projected to add about 356,700 new jobs.

Demand for these workers will stem from greater emphasis on cloud computing, the collection and storage of big data, and information security.

The median annual wage for computer and information technology occupations was $104,420 in May 2023. They work in many different industries, including information technology (IT), education, finance, healthcare, and telecommunication. As organizations across the economy increase their reliance on information technology (IT), analysts will be hired to design and install new computer systems.

Some Texas Universities and Colleges with Information Technology Programs

Texas Christian University

University of North Texas

Abilene Christian University

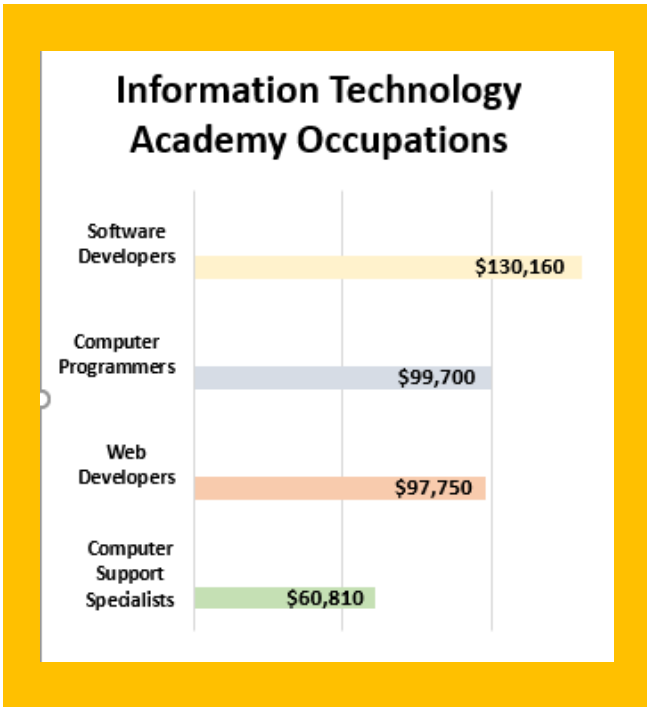
Howard College

Kilgore College

University of Texas – Rio Grande Valley

Texas Southmost College

Texas State Technical College



Source: US BUREAU OF LABOR STATISTICS, 2023

Information Technology Industry Recognized Certification offered in HCISD:

CompTIA.

Information Technology Facts

Global Positioning System navigators, cell phones, and TV satellite dishes are just a few consumer products developed from technologies at the NASA Space Center in Houston.

Dallas-based Texas Instruments developed the world's first commercial silicon transistors, integrated circuit and electronic handheld calculator.

Video games developed in Texas included Call of Duty series, Over the Hedge, Tony Hawks' American Wasteland and Ready 2 Rumble.

SOURCE CITATION: AchieveTexas in Action, Information Technology, 2023 by Texas Education Agency.

ENDORSEMENT:	**BUSINESS AND INDUSTRY**
PROGRAM OF STUDY:	**INFORMATION TECHNOLOGY**
ACADEMY:	**INFORMATION TECHNOLOGY ACADEMY**

English (4 credits)	**9th** English I or PAP English I or English I for Speakers of Other Languages
	10th English II or PAP English II or English II for Speakers of Other Languages
	11th English III or AP English III
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* English IV or AP English IV, Independent Study in English, Literary Genres, Creative Writing, Research and Technical Writing, Humanities, Oral Interpretation III, Debate III, Independent Study in Journalism
Mathematics (4 credits)	**9th** Algebra I or PAP Algebra I
	10th Geometry or PAP Geometry with Statistics
	11th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals
	12th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals
Science (4 credits) *(*Credit may not be earned for both Physics and Principles of Technology to satisfy science credit requirements)*	**9th** Biology or PAP Biology
	10th *One credit must be selected from the following laboratory-based courses:* Integrated Physics and Chemistry, Chemistry or PAP Chemistry, Physics or Honors Physics*, Principles of Technology, AP Physics I, AP Chemistry, AP Biology
	11th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:* Chemistry or PAP Chemistry, Physics or Honors Physics*, Aquatic Science, Astronomy, Environmental Systems, AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Environmental Science, Advanced Animal Science, Advanced Plant and Soil Science, Anatomy and Physiology, Medical Microbiology, Pathophysiology, Food Science, Forensic Science, Principles of Technology*
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:* Chemistry or PAP Chemistry, Physics or Honors Physics*, Aquatic Science, Astronomy, Environmental Systems, AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Environmental Science, Advanced Animal Science, Advanced Plant and Soil Science, Anatomy and Physiology, Medical Microbiology, Pathophysiology, Food Science, Forensic Science, Principles of Technology*
Social Studies (3 credits)	**9th** World Geography or PAP World Geography
	10th World History Studies or AP World History Studies or Honors World History Studies
	11th U.S. History Studies since 1877 or AP U.S. History Studies since 1877 or U.S. History Dual Enrollment
	12th U.S. Government or AP U.S. Government & Politics/Economics or U.S. Government Dual Enrollment
Physical Education (1 credit)	*The required credit may be selected from any combination of the following one-half to one credit courses:* Foundations of Personal Fitness, Team or Individual Sports, Athletics, Junior Reserve Officer Training Corps (JROTC), Drill Team, Marching Band (Fall only), Cheerleading
LOTE (2 credits)	Any two levels in the same language: Spanish, French or two credits in computer programming languages or Special Topics in Language and Culture
Fine Arts (1 credit)	*One credit must be selected from the following courses*: Art I, Art II, Art III, Art IV, Dance I, Dance II, Dance III, Dance IV, Music I, Music II, Music III, Music IV, Theatre I, Theatre II, Theatre III, Theatre IV
Electives (3 credits)	elective options

PATHWAYS	**9th GRADE**	**10th GRADE**	**11th GRADE**	**12th GRADE**
CYBER-SECURITY	Principles of Information Technology	Computer Maintenance	Networking	Cybersecurity Capstone

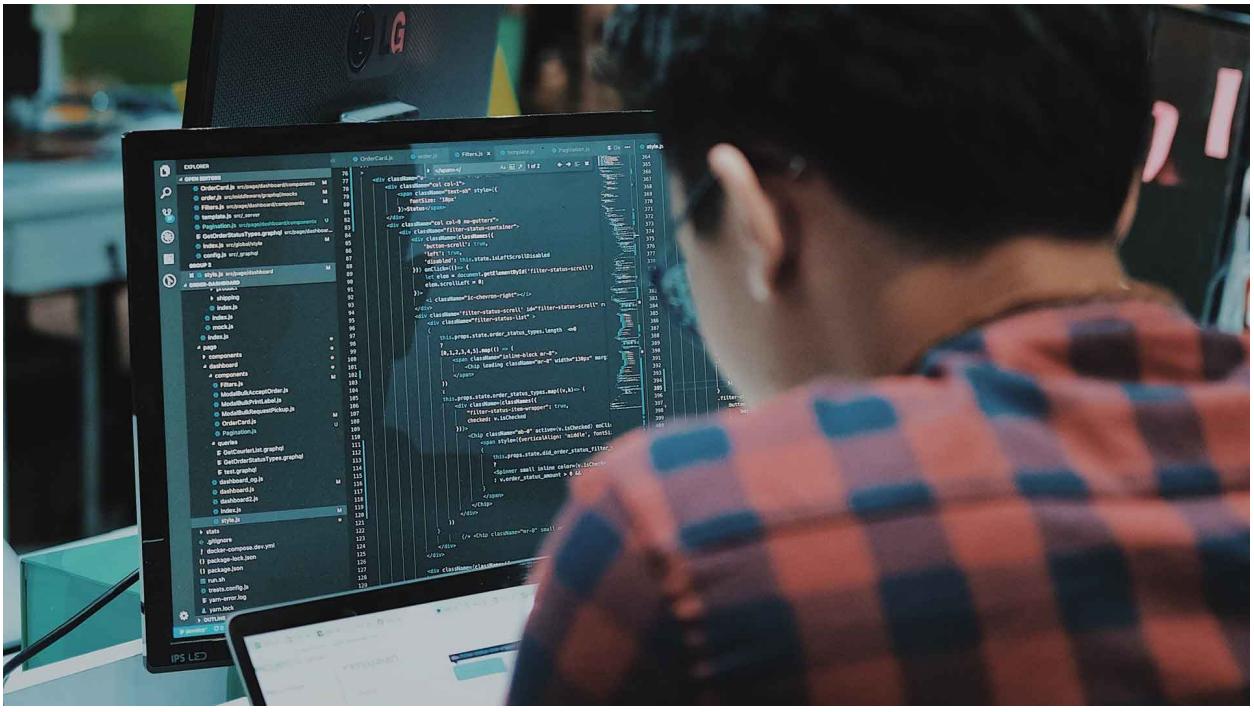
ENDORSEMENT:			BUSINESS AND INDUSTRY	
PROGRAM OF STUDY:			INFORMATION TECHNOLOGY	
ACADEMY:			INFORMATION TECHNOLOGY ACADEMY	
PATHWAYS	**9th GRADE**	**10th GRADE**	**11th GRADE**	**12th GRADE**
WEB DEVELOPMENT	Principles of Information Technology	Video Game Design	IMED 1371 - UI/UX Design (at TSTC) **Foundations of User Experience UX (HCISD course)**	IMED 1316 - Web Design (at TSTC) **Web Design (HCISD course)**
			ITSE 1311 - Beginning Web Programming (at TSTC) **Web Communications (HCISD course)**	ITSE 2302 – Intermediate Web Programming (at TSTC) **Practicum in Information Technology (HCISD course)**

Dual Credit

Dual Credit is a system in which an eligible high school student enrolls in college course(s) and receives credit for the course(s) from both the college and high school.

Benefits of taking Dual Credit Courses

- Gain first-hand experience with college-level work while attending high school
- Transition more smoothly between high school and college
- Transfer credits earned in high school to Texas public colleges and universities
- Complete a postsecondary degree faster
- Save money on college tuition



MEDIA ARTS AND COMMUNICATIONS ACADEMY

What Film/Video Editors, Camera Operators, Broadcast Engineers, Reporters, Broadcast News Analysts, Correspondents, and Graphic Designers Do

Film/video editors and camera operators manipulate images that entertain or inform an audience. Camera operators capture a wide range of material for TV shows, motion pictures, music videos, documentaries, or news and sporting events.

Editors organize the final productions from the many different images that camera operators capture. They collaborate with producers and directors to create the final production.

Broadcast and sound engineering technicians set up, operate, and maintain the electrical equipment for radio and television broadcasts, concerts, sound recordings, and movies.

Reporters, correspondents, and broadcast news analysts inform the public about news and events happening internationally, nationally, and locally.

Graphic designers create visual concepts, by hand or using computer software, to communicate ideas that inspire, inform, or captivate consumers. They develop the overall layout and production design for advertisements, brochures, magazines, and corporate reports.

Arts, A/V Technology & Communications

PATHWAYS

- ◊ **DIGITAL COMMUNICATIONS**
- ◊ **GRAPHIC DESIGN AND INTERACTIVE MEDIA**
- ◊ **DIGITAL MEDIA DESIGN PROGRAM (DUAL - TSTC)**

Prospective Careers in the Field of Arts, A/V Technology and Communications Programs

Video Technician
Video Graphics Designer
Special Effects Designer
Audio-Video Designer
A/V System Service Technician
Audio Systems Technician
Graphics Printing Operator
Lithographers and Plate-maker
Computer Typographer
Composition Operator
Desktop Publishing Specialist
Web Page Designer
Interior Designer
Commercial Graphic Designer
CAD Technician
Fashion Illustrator
Commercial Artist
Illustrator and Artist
Fashion Designer
Production Manager
Cinematographer
Film/Video Editor
Dancer
Director and Coach
Performer, Actor, Musician
Make-Up Artist and Costume Designer
Control Room Technician
Station Manager
Radio Announcer
Publisher/Journalist
Broadcast Technician

SOURCE CITATION: *Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2019-2020 Edition, Media and Communications Occupations.*

Arts, A/V Technology and Communications Occupations

Film and video editors held about 28,100 jobs in 2012. About 47% were employed by motion picture and video industries and 10% worked in television broadcasting. About 24 percent of editors were self-employed. Camera operators held about 21,400 jobs in 2012. About 28% worked in radio and television broadcasting, and another 28% worked in motion picture and video industries, and about 22% of camera operators were self-employed.

Broadcast and sound engineering technicians held about 121,400 jobs in 2023, and Graphic designers held about 267,200 jobs.

Employment in arts and design occupations are needed to meet the demand for animation and visual effects in video games, movies, television, and on smartphones, as well as to help create visually appealing and effective layouts of websites and other media platforms. The median annual wage for arts and design occupations was $51,660 in May 2023.

Some Texas Universities and Colleges with Arts, A/V Technology and Communications Programs

Art Institute Dallas

St. Edward's University

Texas State University

University Of Houston

Sam Houston State University

University of Texas – Rio Grande Valley

University of Texas - San Antonio

Arts, A/V Technology and Communications Industry Recognized Certification offered in HCISD:

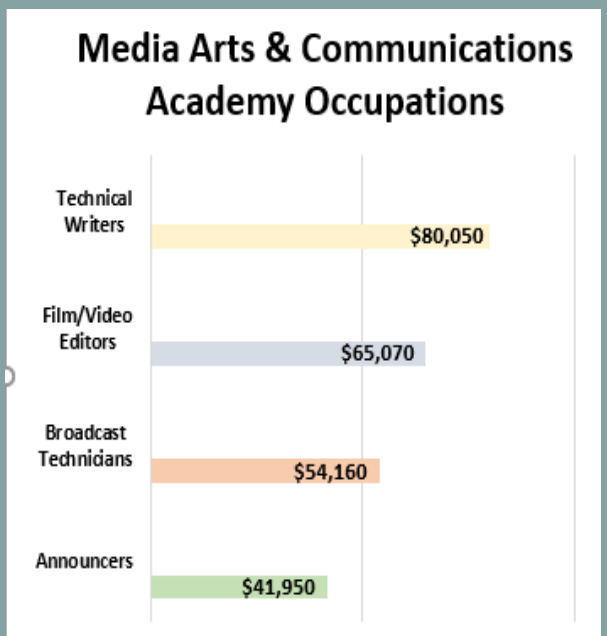
Arts, A/V Technology and Communications Facts

Every two years, the Texas Legislature selects four artists to represent the state in four positions -- poet laureate, state musician, visual artist/2-D, visual artist/3-D.

An estimated $2.62 billion was spent on film production in Texas between 1999 and 2009.

Texas college students can apply to intern with the Texas Film Commission in Austin.

SOURCE CITATION: AchieveTexas in Action, Arts, A/V Technology & Communications, 2020 by Texas Education Agency.



Source: US BUREAU OF LABOR STATISTICS, 2023

ENDORSEMENT:	**BUSINESS & INDUSTRY**
PROGRAM OF STUDY:	**ARTS, AUDIO VIDEO TECHNOLOGY AND COMMUNICATIONS**
ACADEMY:	**MEDIA ARTS AND COMMUNICATIONS ACADEMY**

English (4 credits)	**9th** English I or PAP English I or English I for Speakers of Other Languages
	10th English II or PAP English II or English II for Speakers of Other Languages
	11th English III or AP English III
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* English IV or AP English IV, Independent Study in English, Literary Genres, Creative Writing, Research and Technical Writing, Humanities, Oral Interpretation III, Debate III, Independent Study in Journalism
Mathematics (4 credits)	**9th** Algebra I or PAP Algebra I
	10th Geometry or PAP Geometry with Statistics
	11th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals
	12th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals
Science (4 credits) *(*Credit may not be earned for both Physics and Principles of Technology to satisfy science credit requirements)*	**9th** Biology or PAP Biology
	10th *One credit must be selected from the following laboratory-based courses:* Integrated Physics and Chemistry, Chemistry or PAP Chemistry, Physics or Honors Physics*, Principles of Technology, AP Physics I, AP Chemistry, AP Biology
	11th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:* Chemistry or PAP Chemistry, Physics or Honors Physics*, Aquatic Science, Astronomy, Environmental Systems, AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Environmental Science, Advanced Animal Science, Advanced Plant and Soil Science, Anatomy and Physiology, Medical Microbiology, Pathophysiology, Food Science, Forensic Science, Principles of Technology*
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:* Chemistry or PAP Chemistry, Physics or Honors Physics*, Aquatic Science, Astronomy, Environmental Systems, AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Environmental Science, Advanced Animal Science, Advanced Plant and Soil Science, Anatomy and Physiology, Medical Microbiology, Pathophysiology, Food Science, Forensic Science, Principles of Technology*
Social Studies (3 credits)	**9th** World Geography or PAP World Geography
	10th World History Studies or AP World History Studies or Honors World History Studies
	11th U.S. History Studies since 1877 or AP U.S. History Studies since 1877 or U.S. History Dual Enrollment
	12th U.S. Government or AP U.S. Government & Politics/Economics or U.S. Government Dual Enrollment
Physical Education (1 credit)	*The required credit may be selected from any combination of the following one-half to one credit courses:* Foundations of Personal Fitness, Team or Individual Sports, Athletics, Junior Reserve Officer Training Corps (JROTC), Drill Team, Marching Band (Fall only), Cheerleading
LOTE (2 credits)	Any two levels in the same language: Spanish, French or two credits in computer programming languages or Special Topics in Language and Culture
Fine Arts (1 credit)	*One credit must be selected from the following courses*: Art I, Art II, Art III, Art IV, Dance I, Dance II, Dance III, Dance IV, Music I, Music II, Music III, Music IV, Theatre I, Theatre II, Theatre III, Theatre IV
Electives (3 credits)	elective options

PATHWAYS	9th GRADE	10th GRADE	11th GRADE	12th GRADE
DIGITAL COMMUNICATIONS	Principles of Arts, Audio/Video Technology, and Communications	Audio/Video Production I	Audio/Video Production II/Lab	Practicum in Audio/ Video Production and Extended Practicum
GRAPHIC DESIGN AND INTERACTIVE MEDIA	Principles of Arts, Audio/Video Technology, and Communications	Graphic Design & Illustration I and Lab	Graphic Design & Illustration II and Lab	Practicum in Graphic Design and Illustration and Extended Practicum

ENDORSEMENT:	**BUSINESS & INDUSTRY**
PROGRAM OF STUDY:	**ARTS, AUDIO VIDEO TECHNOLOGY AND COMMUNICATIONS**
ACADEMY:	**MEDIA ARTS AND COMMUNICATIONS ACADEMY**

DUAL CREDIT PATHWAY
AT TEXAS STATE TECHNICAL COLLEGE IN HARLINGEN

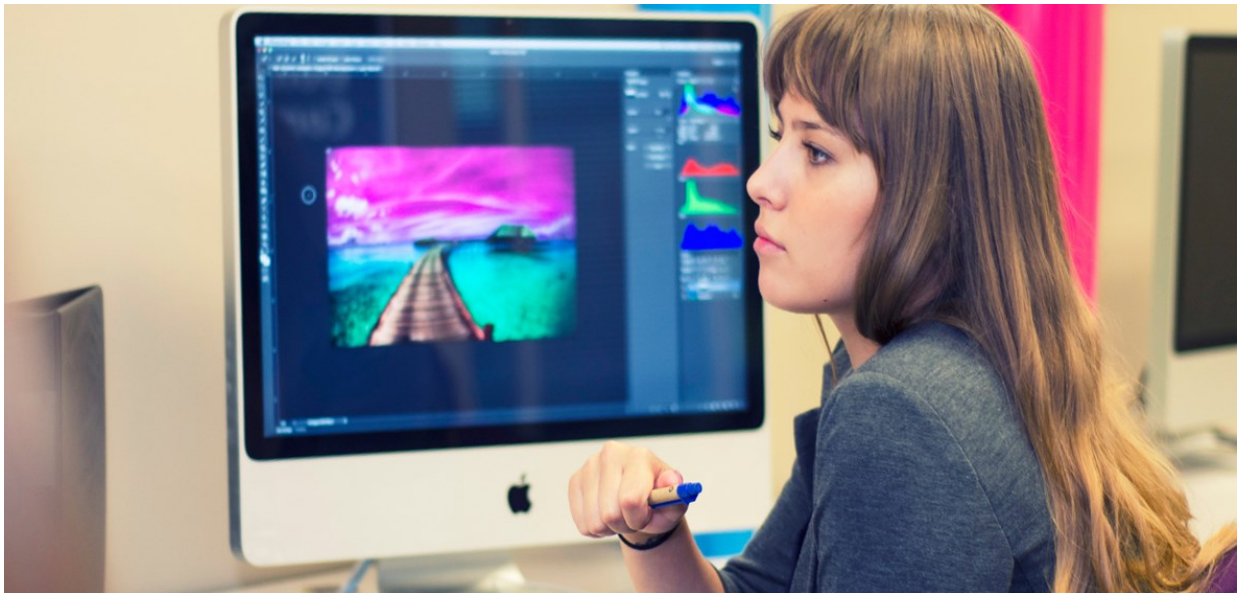
PATHWAY	9th GRADE	10th GRADE	11th GRADE	12th GRADE
DIGITAL MEDIA DESIGN PROGRAM	Principles of Arts, Audio/ Video Technology, and Communications	Audio/Video Production I	ARTC 1353 Computer Illustrations (online w/TSTC) **Articulated with Graphic Design & Illustration I /Lab (HCISD course)**	ARTC 1313 Digital Publishing (online w/TSTC) **Articulated with Digital Design and Media Production (HCISD course)**
			ARTC 1302 Digital Imaging I (online w/TSTC) **Articulated with Digital Art & Animation (HCISD course)**	ARTC 2305 Digital Imaging II (online w/TSTC) **Articulated with Graphic Design and Illustration II/Graphic Design and Illustration II Lab (HCISD course)**

Dual Credit

Dual Credit is a system in which an eligible high school student enrolls in college course(s) and receives credit for the course(s) from both the college and high school.

Benefits of taking Dual Credit Courses

- Gain first-hand experience with college-level work while attending high school
- Transition more smoothly between high school and college
- Transfer credits earned in high school to Texas public colleges and universities
- Complete a postsecondary degree faster
- Save money on college tuition



Natural Resources ACADEMY

What Farmers, Ranchers and Agricultural Managers Do

American farmers, ranchers, and other agricultural managers produce enough crops and livestock to meet the needs of the United States and for export. They also monitor the constantly changing prices for their product. They use different strategies to protect themselves from unpredictable changes in the markets.

Many farmers carefully plan the combination of crops that they grow, so if the price of one crop drops, they will have enough income from another crop to make up the loss. When farmers and ranchers plan ahead, they may be able to store their crops or keep their livestock to take advantage of higher prices later in the year.

Most farm output goes to food-processing companies. However, some farmers now choose to sell their goods directly to consumers through farmer's markets or use cooperatives to reduce their financial risk and to gain a larger share of the final price of their goods. In community-supported agriculture, cooperatives sell shares of a harvest to consumers before the planting season to ensure a market for the farm's produce.

Some employees of large farms are in nonfarm occupations, working as truck drivers, sales representatives, bookkeepers, and IT specialists.

Agriculture, Food & Natural Resources

PATHWAYS

- ◊ **ANIMAL SCIENCE**
- ◊ **PLANT SCIENCE**

Prospective Careers in the Field of Agriculture, Food and Natural Resources

Agricultural Economist
Agricultural Engineer
Beef Producer
Beekeeper
Animal Breeders
Biochemist
Biological Engineer
Biological Scientist
Botanist
Climatologist
Farm Manager
Agricultural Food Science Technicians
Forest Conservationist
Ecologist
Zoologists
Entomologist
Garden Center Manager
Geneticist
Greenhouse Manager
Nutritionist
Ornithologist
Parasitologist
Pet Groomer
Ranchers
Veterinary Assistant
Microbiologists
Veterinarian
Wildlife Biologist
Zoo Keeper

SOURCE CITATION: *Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2019-2020 Edition, Farmers, Ranchers, Veterinarians and Other Agricultural Managers.*

Agriculture, Food and Natural Resources Occupations

Farmers, ranchers, and other agricultural managers held about 930,600 jobs in 2012. About 73 percent were self-employed. The rest were wage and salary agricultural managers.

They typically work outdoors and may spend some time in offices. They sometimes do strenuous physical work. On crop farms they usually work from sunrise to sunset during the planting and harvesting seasons. During the rest of the year, they plan the next season's crops, market their output, and repair and maintain machinery. On livestock-producing farms and ranches, work goes on throughout the year. Animals require care every day.

An increasing number of farmers have developed successful market niches that involve personalized, direct contact with their customers. Many are finding opportunities in horticulture and organic food production, which are among the fastest growing segments of agriculture.

Some Texas Universities and Colleges with Agriculture, Food and Natural Resources Programs

Angelo State University

Hill College

Lubbock Christian University

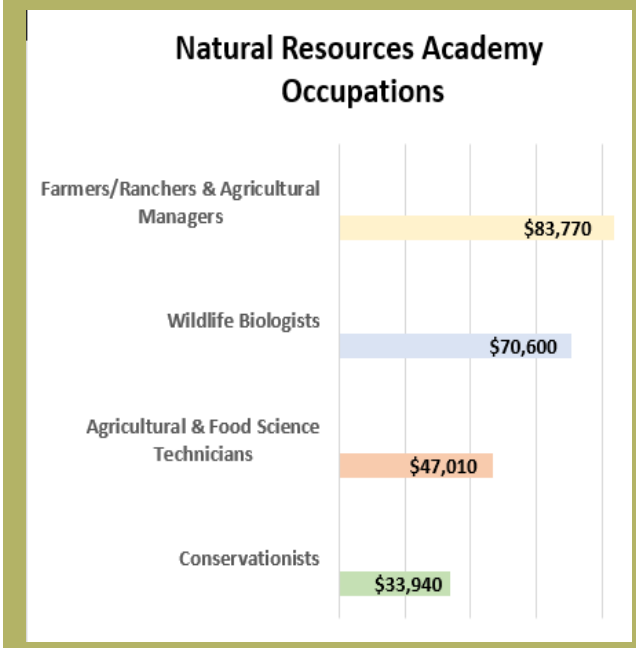
Prairie View A&M

Texas A&M College Station

Texas A&M Kingsville

Texas Christian University

Texas Tech University



Source: US BUREAU OF LABOR STATISTICS, 2023

Agriculture, Food and Natural Resources Industry Recognized Certification offered in HCISD:

Agriculture, Food and Natural Resource Facts

The top 5 Agricultural commodities in Texas are cattle, cotton, broiler/chickens, greenhouse/nursery products, and dairy products.

1-in-7 Texans are employed in agriculture.

The 2007 U.S. Census of Agriculture recorded 229,000 Farms in Texas and a statewide net farm income of $12.6 billion.

There are 38.66 million acres of cropland in the state of Texas.

SOURCE CITATION: AchieveTexas in Action, Agriculture, Food and Natural Resources, 2020 by Texas Education Agency.

ENDORSEMENT:	**BUSINESS & INDUSTRY**
PROGRAM OF STUDY:	**AGRICULTURE, FOOD AND NATURAL RESOURCES**
ACADEMY:	**NATURAL RESOURCES ACADEMY**

English (4 credits)	**9th** English I or PAP English I or English I for Speakers of Other Languages
	10th English II or PAP English II or English II for Speakers of Other Languages
	11th English III or AP English III
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* English IV or AP English IV, Independent Study in English, Literary Genres, Creative Writing, Research and Technical Writing, Humanities, Oral Interpretation III, Debate III, Independent Study in Journalism
Mathematics (4 credits)	**9th** Algebra I or PAP Algebra I
	10th Geometry or PAP Geometry with Statistics
	11th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals
	12th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals
Science (4 credits) *(*Credit may not be earned for both Physics and Principles of Technology to satisfy science credit requirements)*	**9th** Biology or PAP Biology
	10th *One credit must be selected from the following laboratory-based courses:* Integrated Physics and Chemistry, Chemistry or PAP Chemistry, Physics or Honors Physics*, Principles of Technology, AP Physics I, AP Chemistry, AP Biology
	11th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:* Chemistry or PAP Chemistry, Physics or Honors Physics*, Aquatic Science, Astronomy, Environmental Systems, AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Environmental Science, Advanced Animal Science, Advanced Plant and Soil Science, Anatomy and Physiology, Medical Microbiology, Pathophysiology, Food Science, Forensic Science, Principles of Technology*
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:* Chemistry or PAP Chemistry, Physics or Honors Physics*, Aquatic Science, Astronomy, Environmental Systems, AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Environmental Science, Advanced Animal Science, Advanced Plant and Soil Science, Anatomy and Physiology, Medical Microbiology, Pathophysiology, Food Science, Forensic Science, Principles of Technology*
Social Studies (3 credits)	**9th** World Geography or PAP World Geography
	10th World History Studies or AP World History Studies or Honors World History Studies
	11th U.S. History Studies since 1877 or AP U.S. History Studies since 1877 or U.S. History Dual Enrollment
	12th U.S. Government or AP U.S. Government & Politics/Economics or U.S. Government Dual Enrollment
Physical Education (1 credit)	*The required credit may be selected from any combination of the following one-half to one credit courses:* Foundations of Personal Fitness, Team or Individual Sports, Athletics, Junior Reserve Officer Training Corps (JROTC), Drill Team, Marching Band (Fall only), Cheerleading
LOTE (2 credits)	Any two levels in the same language: Spanish, French or two credits in computer programming languages or Special Topics in Language and Culture
Fine Arts (1 credit)	*One credit must be selected from the following courses*: Art I, Art II, Art III, Art IV, Dance I, Dance II, Dance III, Dance IV, Music I, Music II, Music III, Music IV, Theatre I, Theatre II, Theatre III, Theatre IV
Electives (3 credits)	elective options

PATHWAYS	9th GRADE	10th GRADE	11th GRADE	12th GRADE
ANIMAL SCIENCE	Principles of Agriculture, Food and Natural Resources	Small Animal Management and Equine Science or Wildlife, Fisheries and Ecology Management	Livestock Production	Advanced Animal Science
PLANT SCIENCE	Principles of Agriculture, Food and Natural Resources	Greenhouse Operation and Production	Horticultural Science	Advanced Plant and Soil Science

Science, Technology, Engineering & Mathematics

PATHWAYS

- ◊ **ENGINEERING FOUNDATIONS**
- ◊ **ADVANCED MANUFACTURING & MACHINERY MECHANICS (ROBOTICS)**
- ◊ **BIOMEDICAL EQUIPMENT TECHNOLOGY PROGRAM (DUAL-TSTC)**
- ◊ **WIND ENERGY TECHNICIAN PROGRAM (DUAL - TSTC)**

PRE-ENGINEERING ACADEMY

What Computer Information Researchers and Mechanical Engineers Do

STEM occupations; technical jobs in science, technology, engineering, and mathematics play an instrumental role in expanding scientific frontiers, developing new products, and generating technological progress.

These occupations are concentrated in cutting edge industries such as computer systems design, scientific research and development, and high-tech manufacturing industries.

Computer and information researchers invent and design new approaches to computing technology and find innovative uses for existing technology.

They study and solve complex problems in computing for business, medicine, science, and other fields.

Mechanical engineering is one of the broadest engineering disciplines.

Mechanical engineers research, design, develop, build, and test mechanical and thermal devices, including tools, engines, and machines.

Other vital engineering occupations include that of specialization in the fields of architecture, transportation, fabrication, natural science, and petroleum.

Prospective Careers in the Field of Science, Technology, Engineering and Mathematics

Aerospace Engineer
Aeronautical Engineer
Agricultural Engineer
Agricultural Technician Engineer
Analytical Chemist
Anthropologist
Applied Mathematician
Automotive Engineer
Biomedical Engineer
Biotechnology Engineer
Chemical Engineer
Civil Engineer
Conservation Scientist
Marine Engineer
Materials Engineer
Nuclear Chemist
Nuclear Technician
Numerical Analyst
Ocean Engineer
Packaging Engineer
Petroleum Engineer
Scientist
Spectroscopist
Geothermal Engineer
Hazardous Waste Engineer
Industrial Engineer
Industrial Technician

SOURCE CITATION: Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2019-2020 Edition, Computer Information Researchers and Mechanical Engineers.

Some Texas Universities and Colleges with Science, Technology, Engineering and Mathematics Programs

Lamar University

Rice University

University of Texas – Austin

TSTC – Harlingen

Texas Tech University

Texas A&M - College Station

Texas State University

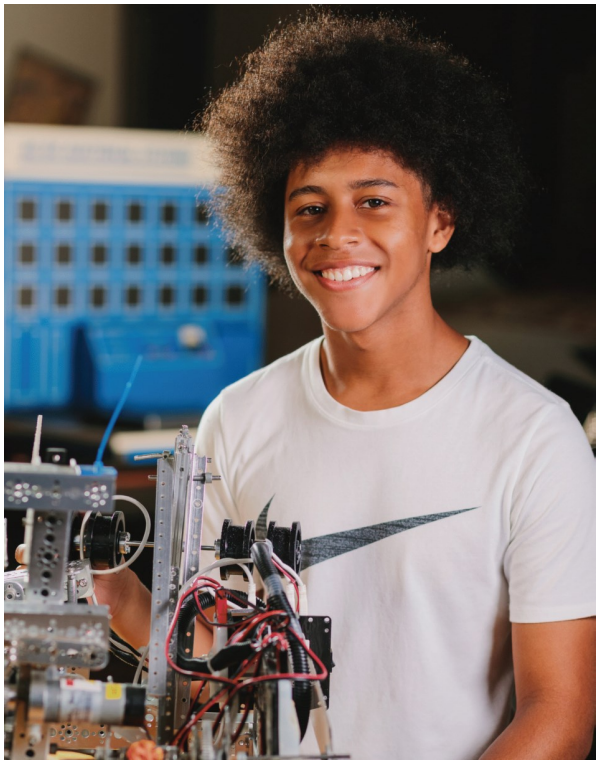
Engineering Occupations

Employment in engineering occupations is projected to grow as fast as the average for all occupations. About 5,377,740 new jobs are projected to be added.

Most of the projected job growth in this group is in the engineer occupations, as their services will be in demand in various areas such as rebuilding of infrastructure, renewable energy, oil and gas extraction, and robotics. The median annual wage for architecture and engineering occupations was $91,420 in May 2023.

Employment of computer and information research scientists is projected to grow faster than the average for all occupations from 2023-2033. Computer scientists are tasked with advancing all fields of computing.

As demand for new and better technology grows, demand for computer scientists will grow as well. Employment of mechanical engineers is projected to grow 11 percent from 2023 to 2033.



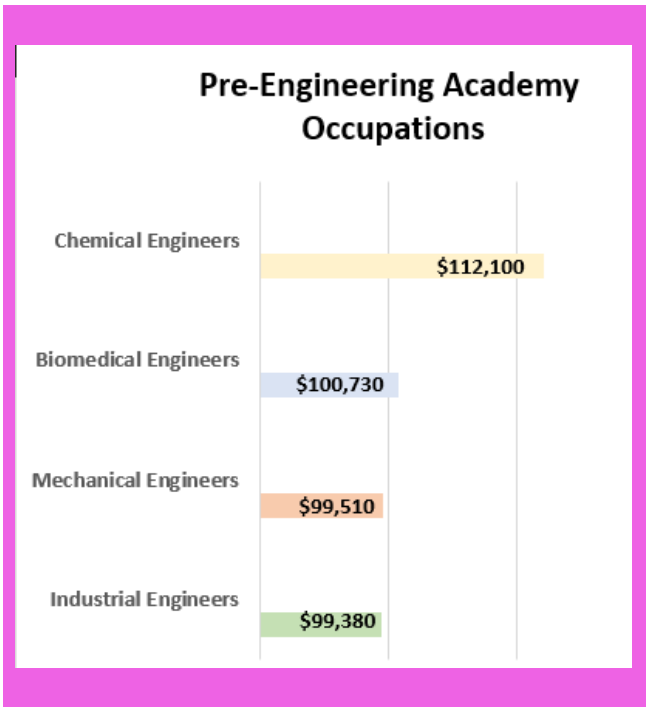
Science, Technology, Engineering and Mathematics Facts

The UT Marine Science Institute on the Gulf of Mexico in Port Aransas began conducting researching 1946 and is the oldest marine lab in Texas.

The engineering programs at the University of Texas at Austin and Texas A&M College Station rank in the top 5 in the nation.

Among those with some college education, the typical full-time, year-round STEM worker earns $54,745 while a similarly educated non-STEM worker earns $40,505, or 26% less.

SOURCE CITATION: AchieveTexas in Action, STEM, 2020 by Texas Education Agency.



Source: US BUREAU OF LABOR STATISTICS, 2023

ENDORSEMENT:			**STEM**	
PROGRAM OF STUDY:			**STEM**	
ACADEMY:			**PRE-ENGINEERING ACADEMY**	
English (4 credits)	**9th** English I or PAP English I or English I for Speakers of Other Languages			
	10th English II or PAP English II or English II for Speakers of Other Languages			
	11th English III or AP English III			
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* English IV or AP English IV, Independent Study in English, Literary Genres, Creative Writing, Research and Technical Writing, Humanities, Oral Interpretation III, Debate III, Independent Study in Journalism			
Mathematics (4 credits)	**9th** Algebra I or PAP Algebra I			
	10th Geometry or PAP Geometry with Statistics			
	11th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals			
	12th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals			
Science (4 credits) *(*Credit may not be earned for both Physics and Principles of Technology to satisfy science credit require-ments)*	**9th** Biology or PAP Biology			
	10th *One credit must be selected from the following laboratory-based courses:* Integrated Physics and Chemistry, Chemistry or PAP Chemistry, Physics or Honors Physics*, Principles of Technology, AP Physics I, AP Chemistry, AP Biology			
	11th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:* Chemistry or PAP Chemistry, Physics or Honors Physics*, Aquatic Science, Astronomy, Environmental Systems, AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Environmental Science, Advanced Animal Science, Advanced Plant and Soil Science, Anatomy and Physiology, Medical Microbiology, Pathophysiology, Food Science, Forensic Science, Principles of Technology*			
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:* Chemistry or PAP Chemistry, Physics or Honors Physics*, Aquatic Science, Astronomy, Environmental Systems, AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Environmental Science, Advanced Animal Science, Advanced Plant and Soil Science, Anatomy and Physiology, Medical Microbiology, Pathophysiology, Food Science, Forensic Science, Principles of Technology*			
Social Studies (3 credits)	**9th** World Geography or PAP World Geography			
	10th World History Studies or AP World History Studies or Honors World History Studies			
	11th U.S. History Studies since 1877 or AP U.S. History Studies since 1877 or U.S. History Dual Enrollment			
	12th U.S. Government or AP U.S. Government & Politics/Economics or U.S. Government Dual Enrollment			
Physical Education (1 credit)	*The required credit may be selected from any combination of the following one-half to one credit courses:* Foundations of Personal Fitness, Team or Individual Sports, Athletics, Junior Reserve Officer Training Corps (JROTC), Drill Team, Marching Band (Fall only), Cheerleading			
LOTE (2 credits)	Any two levels in the same language: Spanish, French or two credits in computer programming languages or Special Topics in Language and Culture			
Fine Arts (1 credit)	*One credit must be selected from the following courses*: Art I, Art II, Art III, Art IV, Dance I, Dance II, Dance III, Dance IV, Music I, Music II, Music III, Music IV, Theatre I, Theatre II, Theatre III, Theatre IV			
Electives (3 credits)	elective options			

PATHWAYS	**9th GRADE**	**10th GRADE**	**11th GRADE**	**12th GRADE**
Engineering	Introduction to Engineering Design (PLTW)	Principles of Engineering (PLTW)	Digital Electronics (PLTW) and/or Computer Integrated Manufacturing (PLTW) and/or Engineering Design and Problem Solving	Engineering Design & Development (PLTW)
Advanced Manufacturing & Machinery Mechanics (Robotics)	Introduction to Engineering Design (PLTW)	Engineering Design and Presentation	Robotics I	Robotics II

ENDORSEMENT:	STEM
PROGRAM OF STUDY:	STEM
ACADEMY:	PRE-ENGINEERING ACADEMY

DUAL CREDIT PATHWAY AT TEXAS STATE TECHNICAL COLLEGE IN HARLINGEN

PATHWAYS	9th GRADE	10th GRADE	11th GRADE	12th GRADE
WIND ENERGY TECHNICIAN PROGRAM	Introduction to Engineering Design (PLTW)	Principles of Engineering (PLTW)	CETT 1303 DC Circuits (at TSTC) **Articulated w/Energy and Natural Resources Technology (HCISD course)**	WIND 1300 Introduction to Wind Energy (online w/ TSTC) **Articulated w/Solid State Electronics (HCISD course)**
			CETT 1305 AC Circuits (at TSTC) **Articulated w/AC/DC Electronics (HCISD course)**	CETT 1325 Digital Fundamentals (at TSTC) **Articulated w/Digital Electronics (HCISD course)**
PATHWAYS	9th GRADE	10th GRADE	11th GRADE	12th GRADE
BIOMEDICAL EQUIPMENT TECHNOLOGY PROGRAM	Introduction to Engineering Design (PLTW)	Principles of Engineering (PLTW)	EECT 1204 Electronic Soldering (at TSTC) **Articulated w/Digital Electronics (HCISD course)**	BIOM 2377 Medical Imaging, Communication and Storage (at TSTC) **Articulated w/Digital Image Processing (HCISD course)**
			CETT 1409 DC/AC Circuits (at TSTC) **Articulated w/AC/DC Electronics (HCISD course)**	BIOM 1309 Applied Biomedical Equipment Technology (at TSTC) **Articulated w/Solid State Electronics (HCISD course)**
PATHWAYS	9th GRADE	10th GRADE	11th GRADE	12th GRADE
MECHATRONICS TECHNOLOGY PROGRAM	Introduction to Engineering Design (PLTW)	Principles of Engineering (PLTW)	ELPT 1319 Fundamentals of Electricity I (at TSTC) **Articulated w/Manufacturing Engineering Technology I (HCISD course)**	MECH 1371 Industry Digital Devices(at TSTC) **Articulated w/Practicum in Manufacturing (HCISD course)**
			ELPT 1320 Fundamentals of Electricity II (at TSTC) **Articulated w/Manufacturing Technology II (HCISD course)**	MECH 1370 Introduction to Manufacturing (at TSTC) **Articulated w/Practicum in Manufacturing (HCISD course)**

Dual Credit is a system in which an eligible high school student enrolls in college course(s) and receives credit for the course(s) from both the college and high school.

Benefits of taking Dual Credit Courses

- Gain first-hand experience with college-level work while attending high school

Pre-Law Academy

HARLINGEN CONSOLIDATED INDEPENDENT SCHOOL DISTRICT

What Police Officers, Detectives, Security Guards, Firefighters and Lawyers Do

Police officers protect lives and property. They are a community's first line of protection and safety. Detectives and criminal investigators, who are sometimes called *agents* or *special agents*, gather facts and collect evidence of possible crimes. Similarly, Security guards and surveillance officers patrol and protect property against theft, vandalism, terrorism, and illegal activity.

Firefighters perform specialized duty work functions such as preparing for and responding to fire/medical emergency calls and in providing general support within the Fire Department. Duties and responsibilities include maintaining readiness for emergency call response; and responding to fire, medical, and related emergency calls when dispatched and taking proper action.

Lawyers act as both advocates and advisors. They represent one of the parties in criminal or civil trials by presenting evidence and arguing in support of their client. They research the intent of laws and judicial decisions and apply the laws to the specific circumstances that their clients face.

Emergency medical technicians (EMTs) respond to emergencies. They provide first-line medical and emergency care for sick and injured people at the scene, which may be in the person's home, at an accident site or other places and while they are being transported to the hospital for care.

Law, Public Safety, Corrections & Security

PATHWAYS

- ◊ **LAW ENFORCEMENT**
- ◊ **LEGAL STUDIES**

Prospective Careers in the Field of Law, Public Safety, Corrections and Security

Animal Control Officer
Bail Bond Agent
Bail Bondsman
Bail Recovery Agent
Canine Security Handler/Trainer
Emergency Medical Technician
Fire Arms Instructor
Fish and Game Warden
Highway Patrol Officer
Jailer
Law Enforcement Training Officer
Police Detective
Private Detective
Private Investigator
State Trooper
Fire Fighter
Fire Inspector
Fire Alarm System Inspector
Fire Service Driver/Operator
Hazardous Materials Technician
Medical Response Technician
Paramedic
Court Reporter
Lawyer
Paralegal
Protective Agent
Security Guard
Corrections Officer
Court Reporter
Information Officer
Judge
Law Clerk
Legal Assistant

SOURCE CITATION: *Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2019-2020 Edition, Lawyers, Police and Detectives and Security Guards.*

Law, Public Safety and Corrections Occupations

Employment in protective service occupations is projected to grow from 2023 to 2033, about as fast as the average, and will result in about 419,300 new jobs. Protective service occupations had a median annual wage of $47,760 in May 2023.

Employment of police and detectives is projected to grow 4 percent, security guards is projected to grow 2 percent and lawyers is projected to grow 5 percent from 2023 to 2033. Employment of fire-fighters is projected to grow 4 percent from 2023 to 2033, and the employment of emergency medical technicians (EMTs) and paramedics is projected to grow 6 percent from 2023 to 2033, much faster than the average for all occupations. Many of those opening will result from need to replace who transfer to different occupations or exit labor force.

The work of Police, Security, EMT and Firefighters can be physically demanding, stressful, and dangerous. Although a career in law enforcement may be stressful, many officers find it rewarding to help members of their communities. Lawyers work mostly in offices. However, some travel to attend meetings with clients at various locations, such as homes, hospitals, or prisons. Others

Some Texas Universities and Colleges with Law, Public Safety, Corrections and Security Programs

Texas A&M University	Odessa College
Angelo State University	Weatherford College
Central Texas College	Brookhaven College
Victoria College	Our Lady of the Lake University

Law and Public Service Industry Recognized Certification offered in HCISD:

IAED
International Academies of Emergency Dispatch

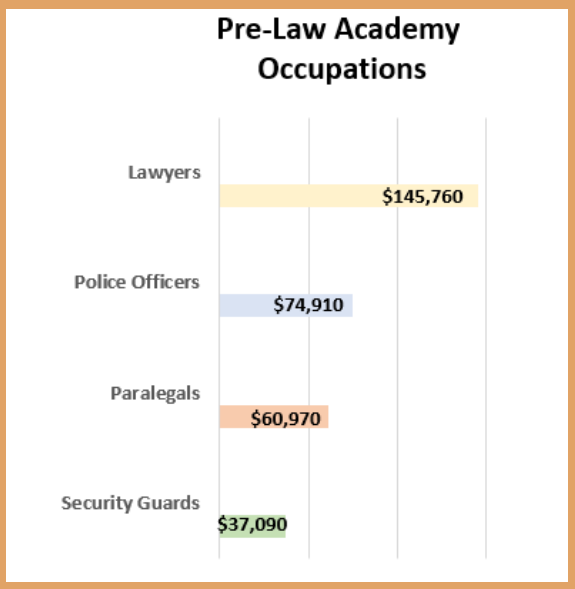
Law, Public Safety, Corrections and Security Facts

Texas lawyers provide approximately 1.8 million hours of free legal services to low income people each year.

There are more than 85,000 law enforcement and corrections personnel in more than 2,700 law enforcement agencies and institutions across Texas.

Being a Texas Ranger is so popular that more than 200 police officers apply for any opening.

SOURCE CITATION: AchieveTexas in Action, Law, Public Safety, Corrections and Security, 2020 by Texas Education Agency.



Source: US BUREAU OF LABOR STATISTICS, 2023

ENDORSEMENT:	**PUBLIC SERVICE**
PROGRAM OF STUDY:	**LAW AND PUBLIC SERVICE**
ACADEMY:	**PRE-LAW ACADEMY**

English (4 credits)	**9th** English I or PAP English I or English I for Speakers of Other Languages
	10th English II or PAP English II or English II for Speakers of Other Languages
	11th English III or AP English III
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* English IV or AP English IV, Independent Study in English, Literary Genres, Creative Writing, Research and Technical Writing, Humanities, Oral Interpretation III, Debate III, Independent Study in Journalism
Mathematics (4 credits)	**9th** Algebra I or PAP Algebra I
	10th Geometry or PAP Geometry with Statistics
	11th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals
	12th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals
Science (4 credits) *(*Credit may not be earned for both Physics and Principles of Technology to satisfy science credit requirements)*	**9th** Biology or PAP Biology
	10th *One credit must be selected from the following laboratory-based courses:* Integrated Physics and Chemistry, Chemistry or PAP Chemistry, Physics or Honors Physics*, Principles of Technology, AP Physics I, AP Chemistry, AP Biology
	11th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:* Chemistry or PAP Chemistry, Physics or Honors Physics*, Aquatic Science, Astronomy, Environmental Systems, AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Environmental Science, Advanced Animal Science, Advanced Plant and Soil Science, Anatomy and Physiology, Medical Microbiology, Pathophysiology, Food Science, Forensic Science, Principles of Technology*
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:* Chemistry or PAP Chemistry, Physics or Honors Physics*, Aquatic Science, Astronomy, Environmental Systems, AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Environmental Science, Advanced Animal Science, Advanced Plant and Soil Science, Anatomy and Physiology, Medical Microbiology, Pathophysiology, Food Science, Forensic Science, Principles of Technology*
Social Studies (3 credits)	**9th** World Geography or PAP World Geography
	10th World History Studies or AP World History Studies or Honors World History Studies
	11th U.S. History Studies since 1877 or AP U.S. History Studies since 1877 or U.S. History Dual Enrollment
	12th U.S. Government or AP U.S. Government & Politics/Economics or U.S. Government Dual Enrollment
Physical Education (1 credit)	*The required credit may be selected from any combination of the following one-half to one credit courses:* Foundations of Personal Fitness, Team or Individual Sports, Athletics, Junior Reserve Officer Training Corps (JROTC), Drill Team, Marching Band (Fall only), Cheerleading
LOTE (2 credits)	Any two levels in the same language: Spanish, French or two credits in computer programming languages or Special Topics in Language and Culture
Fine Arts (1 credit)	*One credit must be selected from the following courses*: Art I, Art II, Art III, Art IV, Dance I, Dance II, Dance III, Dance IV, Music I, Music II, Music III, Music IV, Theatre I, Theatre II, Theatre III, Theatre IV
Electives (3 credits)	elective options

PATHWAYS	9th GRADE	10th GRADE	11th GRADE	12th GRADE
Law Enforcement	Principles of Law, Public Safety, Corrections, and Security	Law Enforcement I	Criminal Investigation	Law Enforcement II
Legal Studies	Principles of Law, Public Safety, Corrections, and Security	Court Systems and Practices	Legal Research and Writing	Forensic Science Or Advanced Legal Skills and Professions

PRE VETERINARY SCIENCE ACADEMY

What Veterinarians Do

Veterinarians care for the health of animals and work to protect public health. They diagnose, treat, and research medical conditions and diseases of pets, livestock, and other animals.

Veterinarians typically do the following:

- Examine animals to assess their health and diagnose problems
- Treat and dress wounds
- Perform surgery on animals
- Test for and vaccinate against diseases
- Operate medical equipment, such as x-ray machines
- Advise animal owners about general care, medical conditions, and treatments
- Prescribe medication
- Euthanize animals

Veterinarians treat the injuries and illnesses of pets and other animals with a variety of medical equipment, including surgical tools and x-ray and ultrasound machines. They provide treatment for animals that is similar to the services a physician provides to humans.

Agriculture, Food & Natural Resources

PATHWAY

◊ **ANIMAL SCIENCE (VETERINARY ASSISTANT)**

Prospective Careers in the Field of Veterinary Science

Agricultural and Food Scientists
Animal Care Workers
Animal Service Workers
Animal Dentists
Animal Breeder
Medical Scientists
Microbiologists
Animal Optometrists
Animal Physicians
Animal Surgeons
Exotic Animal Caretaker
Veterinary Assistants
Laboratory Animal Caretakers
Veterinary Technologists
Veterinary Technicians
Zoologists
Wildlife Biologists
Game Wardens
Marine Biologists
Seeing-Eye Dog Trainer
Fisheries Assistant
Animal Biologists
Veterinary Radiologist Technician
Kennel Keeper

SOURCE CITATION: Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2019-2020 Edition, Veterinary Sciences.

Veterinary Occupations

Veterinarians held about 84,500 jobs in 2018. Most veterinarians work in private clinics and hospitals. Others travel to farms or work in settings such as laboratories, classrooms, or zoos. Veterinarians who treat horses or food animals travel between their offices and farms and ranches. They work outdoors in all kinds of weather and may have to perform surgery, often in remote locations.

Veterinarians who work in food safety and inspection travel to farms, slaughterhouses, and food-processing plants to inspect the health of animals and to ensure that the facility follows safety protocols. The work can be emotionally stressful, as veterinarians care for abused animals, euthanize sick ones, and offer support to the animals' anxious owners. Working on farms and ranches, in slaughterhouses, or with wildlife can also be physically demanding.

Employment of veterinarians is projected to grow 18 percent from 2018 to 2028, much faster than the average for all occupations. Increases in consumers' pet-related spending are expected to drive employment in the veterinary services industry, which employs most veterinarians. Veterinary medicine has advanced considerably. Today's veterinarians are able to offer many services that are comparable to healthcare for humans, including more complicated procedures such as cancer treatments and kidney transplants.

Employment of veterinary assistants and laboratory animal caretakers is projected to grow 16 percent from 2019 to 2029, much faster than the average for all occupations. These workers are expected to be needed to assist veterinarians and other veterinary care staff.

Agriculture, Food and Natural Resources (Veterinary Assistant) Industry Recognized Certification offered in HCISD:

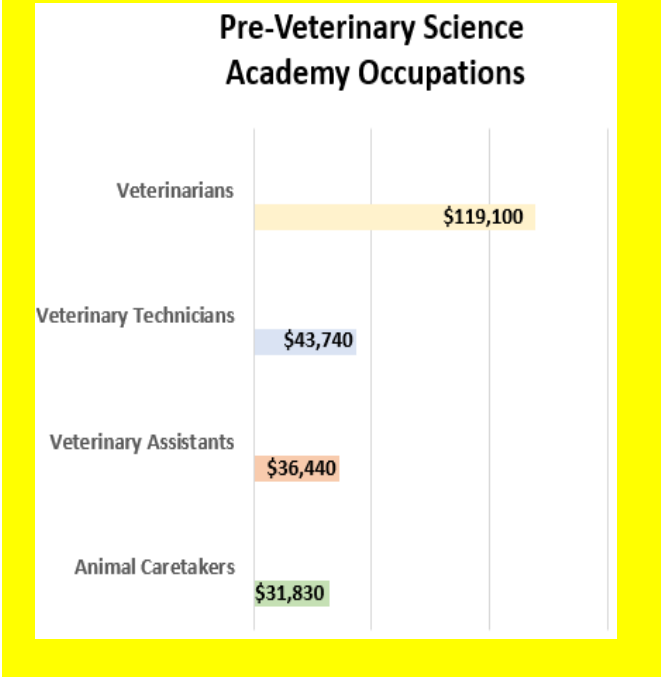
Veterinary Facts

Veterinary medicine is an extremely popular career choice in the animal industry, even though it requires a challenging, demanding education. It can be difficult to get accepted to vet school, but it can be well worth the effort in the long term.

If you're willing to serve in the Army as a veterinarian, you'll receive full tuition while you are in school. The Army will also pay you a $2,000 monthly stipend for incidentals and living expenses.

A veterinary degree requires a broad course of study where you learn about all the species you will encounter as a practitioner. You can't decide, "I want to be a horse vet" and then only learn about equine medicine. You will, however, have the chance to focus on your area of interest when choosing your internships and residencies. You can also go on to pursue board certification as a specialist in a particular field.

SOURCE CITATION: The Balance Careers, Things You Should Know About Vet School, 2020.



Source: US BUREAU OF LABOR STATISTICS, 2023

Some Texas Universities and Colleges with Veterinary Programs

Texas A&M University	Palo Alto College
Cedar Valley College	Weatherford College
McLennan College	Vet Tech Institute of Houston

ENDORSEMENT:	**BUSINESS AND INDUSTRY**
PROGRAM OF STUDY:	**AGRICULTURE, FOOD AND NATURAL RESOURCES**
ACADEMY:	**PRE-VETERINARY SCIENCE ACADEMY**

English (4 credits)	**9th** English I or PAP English I or English I for Speakers of Other Languages
	10th English II or PAP English II or English II for Speakers of Other Languages
	11th English III or AP English III
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* English IV or AP English IV, Independent Study in English, Literary Genres, Creative Writing, Research and Technical Writing, Humanities, Oral Interpretation III, Debate III, Independent Study in Journalism
Mathematics (4 credits)	**9th** Algebra I or PAP Algebra I
	10th Geometry or PAP Geometry with Statistics
	11th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals
	12th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals
Science (4 credits) *(*Credit may not be earned for both Physics and Principles of Technology to satisfy science credit requirements)*	**9th** Biology or PAP Biology
	10th *One credit must be selected from the following laboratory-based courses:* Integrated Physics and Chemistry, Chemistry or PAP Chemistry, Physics or Honors Physics*, Principles of Technology, AP Physics I, AP Chemistry, AP Biology
	11th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:* Chemistry or PAP Chemistry, Physics or Honors Physics*, Aquatic Science, Astronomy, Environmental Systems, AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Environmental Science, Advanced Animal Science, Advanced Plant and Soil Science, Anatomy and Physiology, Medical Microbiology, Pathophysiology, Food Science, Forensic Science, Principles of Technology*
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:* Chemistry or PAP Chemistry, Physics or Honors Physics*, Aquatic Science, Astronomy, Environmental Systems, AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Environmental Science, Advanced Animal Science, Advanced Plant and Soil Science, Anatomy and Physiology, Medical Microbiology, Pathophysiology, Food Science, Forensic Science, Principles of Technology*
Social Studies (3 credits)	**9th** World Geography or PAP World Geography
	10th World History Studies or AP World History Studies or Honors World History Studies
	11th U.S. History Studies since 1877 or AP U.S. History Studies since 1877 or U.S. History Dual Enrollment
	12th U.S. Government or AP U.S. Government & Politics/Economics or U.S. Government Dual Enrollment
Physical Education (1 credit)	*The required credit may be selected from any combination of the following one-half to one credit courses:* Foundations of Personal Fitness, Team or Individual Sports, Athletics, Junior Reserve Officer Training Corps (JROTC), Drill Team, Marching Band (Fall only), Cheerleading
LOTE (2 credits)	Any two levels in the same language: Spanish, French or two credits in computer programming languages or Special Topics in Language and Culture
Fine Arts (1 credit)	*One credit must be selected from the following courses*: Art I, Art II, Art III, Art IV, Dance I, Dance II, Dance III, Dance IV, Music I, Music II, Music III, Music IV, Theatre I, Theatre II, Theatre III, Theatre IV
Electives (3 credits)	elective options

PATHWAY	9th GRADE	10th GRADE	11th GRADE	12th GRADE
Animal Science (Veterinary Assistant)	Principles of Agriculture, Food and Natural Resources	Small Animal Management and Equine Science or Livestock Production **APPLICATION NEEDED FOR ENROLLMENT 11TH-12TH**	Veterinary Medical Applications/Lab	Practicum in Agriculture, Food and Natural Resources and Extended Practicum

TEACHER ACADEMY

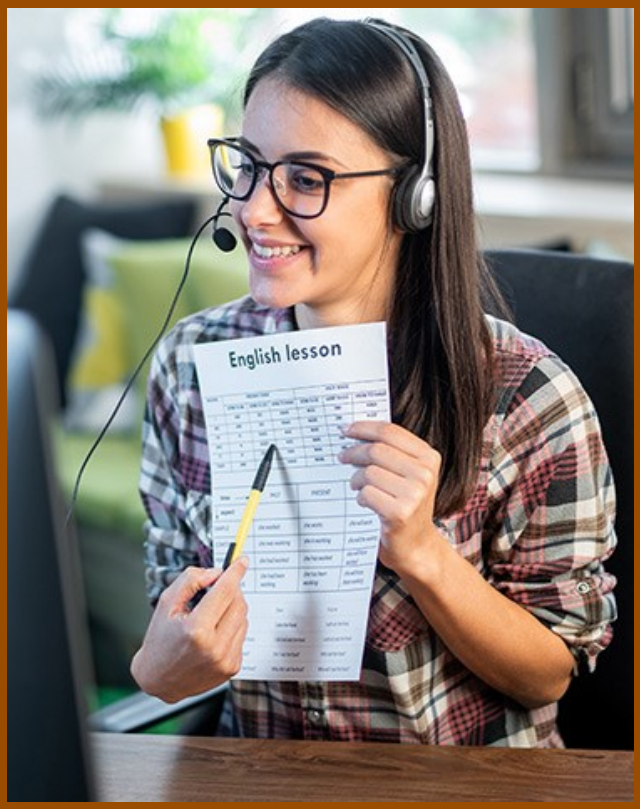
What Kindergarten, Elementary, Middle School, High School Teachers, and Childcare Workers Do

Kindergarten and elementary school teachers help students learn and apply important concepts. Many of these teachers use a hands-on approach to help students understand abstract concepts, solve problems, and develop critical thinking skills.

Middle school teachers educate students, typically in sixth through eighth grades. Middle school teachers help students build on the fundamentals they learned in elementary school and prepare them for the more difficult curriculum they will face in high school.

High school teachers help prepare students for life after graduation. They teach academic lessons and various skills that students will need to attend college and to enter the job market.

Childcare workers care for children when parents and other family members are unavailable. They care for children's basic needs, such as bathing and feeding.



Education & Training

Human Services

PATHWAYS

- ◊ **EARLY LEARNING**
- ◊ **TEACHING AND TRAINING**
- ◊ **EDUCATION AND TRAINING PROGRAM (DUAL - TSTC)**

Prospective Careers in the Education & Training and Human Services

Elementary Teacher
Secondary Teacher
Superintendent
Principal
School District Administrator
Instructional Coordinator
Education Researcher
Test Measurement Specialist Assessment
Curriculum Specialist
College President and Dean
College Department Chair
University Program Coordinator
Post-Secondary Administrator
Curriculum Developer
Instructional Media Designer
Education and Training Technician
Psychologist- Clinical Social Worker
Parent Educator
Academic Counselor
Financial Aid Advisor
Career Counselor/Advisor
Employment Placement Counselor Speech-Language Pathologist
Audiologist
Instructional Resources Coordinator
Technology Support Administrator
Special Education Teacher
Physical Trainer
Professional Coach
Preschool Director
Child Care Assistant/Worker
Early Childhood Teacher and Assistant
Adult Literacy Teacher
Librarian

SOURCE CITATION: *Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2017-2018 Edition, Kindergarten and Elementary School Teachers, and Childcare Workers.*

Education and Training Occupations

Employment in education, training, and library occupations is projected to grow from 2023 to 2033, faster than the average for all occupations. About 868,000 new jobs are projected to be added from 2023 to 2033.

Student enrollment is projected to increase; therefore, postsecondary teachers and preschool, elementary, and secondary school teachers will be needed to meet the demand. The median annual wage for education, training, and library occupations was $59,940 in May 2023.

Employment of kindergarten and elementary school teachers is projected to have 106,500 job openings in 2033. Employment of childcare workers is projected to have 162,500 job openings from 2023 to 2033.

Some Texas Universities and Colleges with Education & Training and Human Services Programs

Abilene Christian University

Concordia University

Galveston College

University of Texas – Rio Grande Valley

University of Texas – Austin

Texas A&M University – College Station

University of Texas – El Paso

Education and Training Industry Recognized Certification offered in HCISD:

Education & Training and Human Services Facts

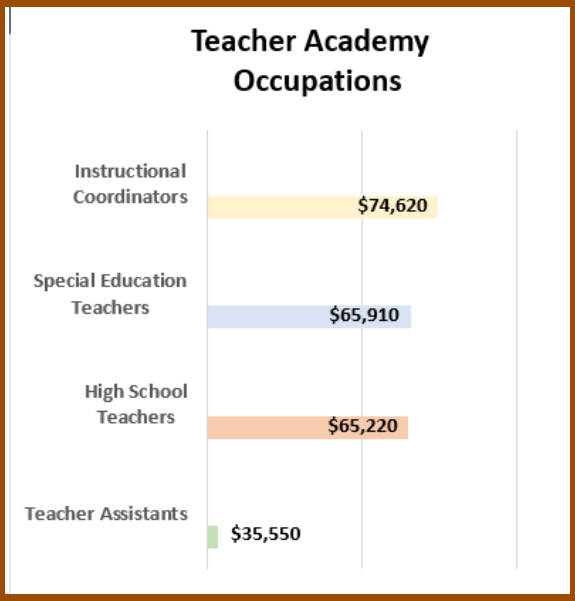
Texas will need more than 25,010 new teachers by 2016. Teaching is projected to be one of the fastest-growing occupations over the next 10 years.

Teach for Texas is a state-sponsored conditional grant program that helps future teachers with college expenses.

Demand for Spanish-speaking teachers continues to grow in Texas.

The average K-12 teacher salary in Texas is $52,383, according to the Texas Workforce Commission.

SOURCE CITATION: AchieveTexas in Action, Education and Training, and Human Services, 2020 by Texas Education Agency.



Source: US BUREAU OF LABOR STATISTICS, 2023

ENDORSEMENT:	**PUBLIC SERVICE**
PROGRAM OF STUDY:	**EDUCATION & TRAINING**
ACADEMY:	**TEACHER ACADEMY**

English (4 credits)	**9th** English I or PAP English I or English I for Speakers of Other Languages
	10th English II or PAP English II or English II for Speakers of Other Languages
	11th English III or AP English III
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* English IV or AP English IV, Independent Study in English, Literary Genres, Creative Writing, Research and Technical Writing, Humanities, Oral Interpretation III, Debate III, Independent Study in Journalism
Mathematics (4 credits)	**9th** Algebra I or PAP Algebra I
	10th Geometry or PAP Geometry with Statistics
	11th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals
	12th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals
Science (4 credits) *(*Credit may not be earned for both Physics and Principles of Technology to satisfy science credit requirements)*	**9th** Biology or PAP Biology
	10th *One credit must be selected from the following laboratory-based courses:* Integrated Physics and Chemistry, Chemistry or PAP Chemistry, Physics or Honors Physics*, Principles of Technology, AP Physics I, AP Chemistry, AP Biology
	11th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:* Chemistry or PAP Chemistry, Physics or Honors Physics*, Aquatic Science, Astronomy, Environmental Systems, AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Environmental Science, Advanced Animal Science, Advanced Plant and Soil Science, Anatomy and Physiology, Medical Microbiology, Pathophysiology, Food Science, Forensic Science, Principles of Technology*
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:* Chemistry or PAP Chemistry, Physics or Honors Physics*, Aquatic Science, Astronomy, Environmental Systems, AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Environmental Science, Advanced Animal Science, Advanced Plant and Soil Science, Anatomy and Physiology, Medical Microbiology, Pathophysiology, Food Science, Forensic Science, Principles of Technology*
Social Studies (3 credits)	**9th** World Geography or PAP World Geography
	10th World History Studies or AP World History Studies or Honors World History Studies
	11th U.S. History Studies since 1877 or AP U.S. History Studies since 1877 or U.S. History Dual Enrollment
	12th U.S. Government or AP U.S. Government & Politics/Economics or U.S. Government Dual Enrollment
Physical Education (1 credit)	*The required credit may be selected from any combination of the following one-half to one credit courses:* Foundations of Personal Fitness, Team or Individual Sports, Athletics, Junior Reserve Officer Training Corps (JROTC), Drill Team, Marching Band (Fall only), Cheerleading
LOTE (2 credits)	Any two levels in the same language: Spanish, French or two credits in computer programming languages or Special Topics in Language and Culture
Fine Arts (1 credit)	*One credit must be selected from the following courses*: Art I, Art II, Art III, Art IV, Dance I, Dance II, Dance III, Dance IV, Music I, Music II, Music III, Music IV, Theatre I, Theatre II, Theatre III, Theatre IV
Electives (3 credits)	elective options

PATHWAYS	9th GRADE	10th GRADE	11th GRADE	12th GRADE
Early Learning	Principles of Education and Training	Child Development	Child Guidance	Practicum in Education & Training/Extended Practicum
Teaching and Training	Principles of Education and Training	Child Development	Instructional Practices	Practicum in Education & Training/Extended Practicum

ENDORSEMENT:	PUBLIC SERVICE
PROGRAM OF STUDY:	EDUCATION & TRAINING
ACADEMY:	TEACHER ACADEMY

DUAL CREDIT PATHWAY
AT TEXAS STATE TECHNICAL COLLEGE IN HARLINGEN

PATHWAY	9th GRADE	10th GRADE	11th GRADE	12th GRADE
EDUCATION AND TRAINING PROGRAM	Principles of Education and Training	EDTC 1301—Educational Systems (online w/TSTC) **Child Development (HCISD course)**	EDTC 2317—Guiding Student Behavior (online w/TSTC) **Instructional Practices (HCISD course)**	EDTC 22311—Instructional Practices and Effective Learning Environments (online w/TSTC) **Practicum in Education & Training/Extended Practicum (HCISD course)**
			EDTC 1341—Instructional Technology and Computer Applications (online w/TSTC) **Human Growth and Development (HCISD course)**	CDEC 1318—Wellness of the Young Child (online w/TSTC) **Practicum in Education & Training/Extended Practicum (HCISD course)**

Dual Credit

Dual Credit is a system in which an eligible high school student enrolls in college course(s) and receives credit for the course(s) from both the college and high school.

Benefits of taking Dual Credit Courses

- Gain first-hand experience with college-level work while attending high school
- Transition more smoothly between high school and college
- Transfer credits earned in high school to Texas public colleges and universities
- Complete a postsecondary degree faster
- Save money on college tuition

Arts and Humanities Endorsement

ENDORSEMENT:	ARTS & HUMANITIES
PROGRAM OF STUDY:	FINE ARTS: BAND,COLOR GUARD, DANCE, MUSIC, CHORAL MUSIC, ORCHESTRA, THEATER ARTS, VISUAL ARTS

English (4 credits)	**9th** English I or PAP English I or English I for Speakers of Other Languages
	10th English II or PAP English II or English II for Speakers of Other Languages
	11th English III or AP English III
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* English IV or AP English IV, Independent Study in English, Literary Genres, Creative Writing, Research and Technical Writing, Humanities, Oral Interpretation III, Debate III, Independent Study in Journalism
Mathematics (4 credits)	**9th** Algebra I or PAP Algebra I
	10th Geometry or PAP Geometry with Statistics
	11th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals
	12th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals
Science (4 credits) *(*Credit may not be earned for both Physics and Principles of Technology to satisfy science credit requirements)*	**9th** Biology or PAP Biology
	10th *One credit must be selected from the following laboratory-based courses:* Integrated Physics and Chemistry, Chemistry or PAP Chemistry, Physics or Honors Physics*, Principles of Technology, AP Physics I, AP Chemistry, AP Biology
	11th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:* Chemistry or PAP Chemistry, Physics or Honors Physics*, Aquatic Science, Astronomy, Environmental Systems, AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Environmental Science, Advanced Animal Science, Advanced Plant and Soil Science, Anatomy and Physiology, Medical Microbiology, Pathophysiology, Food Science, Forensic Science, Principles of Technology*
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:* Chemistry or PAP Chemistry, Physics or Honors Physics*, Aquatic Science, Astronomy, Environmental Systems, AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Environmental Science, Advanced Animal Science, Advanced Plant and Soil Science, Anatomy and Physiology, Medical Microbiology, Pathophysiology, Food Science, Forensic Science, Principles of Technology*
Social Studies (3 credits)	**9th** World Geography or PAP World Geography
	10th World History Studies or AP World History Studies or Honors World History Studies
	11th U.S. History Studies since 1877 or AP U.S. History Studies since 1877 or U.S. History Dual Enrollment
	12th U.S. Government or AP U.S. Government & Politics/Economics or U.S. Government Dual Enrollment
Physical Education (1 credit)	*The required credit may be selected from any combination of the following one-half to one credit courses:* Foundations of Personal Fitness, Team or Individual Sports, Athletics, Junior Reserve Officer Training Corps (JROTC), Drill Team, Marching Band (Fall only), Cheerleading
LOTE (2 credits)	Any two levels in the same language: Spanish, French or two credits in computer programming languages or Special Topics in Language and Culture
Fine Arts (1 credit)	*One credit must be selected from the following courses*: Art I, Art II, Art III, Art IV, Dance I, Dance II, Dance III, Dance IV, Music I, Music II, Music III, Music IV, Theatre I, Theatre II, Theatre III, Theatre IV
Electives (3 credits)	elective options

PATHWAYS	9th GRADE	10th GRADE	11th GRADE	12th GRADE
Dance, Band, Choral Music, Orchestra, Color Guard	Dance I, II, III, and IV; Band I, II, III, and IV; Choral Music I, II, III, and IV; Orchestra I, II, III, and IV; Color Guard I, II, III, and IV			
Theater Arts	Theater Arts I or Theater Production I; Theater Arts II or Theater Production II or Technical Theater I; Theater Arts III or Theater Production III or Technical Theater II; Theater Arts IV or Theater Production IV or Technical Theater III			
Visual Arts	Art I, Art II (Drawing and Painting or Photography), PAP Studio Art, AP Two-Dimensional Design Portfolio, or AP Three-Dimensional Design Portfolio, or AP Studio Art: Drawing or AP Art History			

Multi-Disciplinary Endorsement

ENDORSEMENT:	MULTI-DISCIPLINARY
English (4 credits)	**9th** English I or PAP English I or English I for Speakers of Other Languages
	10th English II or PAP English II or English II for Speakers of Other Languages
	11th English III or AP English III
	12th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* English IV or AP English IV, Independent Study in English, Literary Genres, Creative Writing, Research and Technical Writing, Humanities, Oral Interpretation III, Debate III, Independent Study in Journalism
Mathematics (4 credits)	**9th** Algebra I or PAP Algebra I
	10th Geometry or PAP Geometry with Statistics
	11th *An additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:* Algebra II or Honors Algebra II, Pre-calculus or Honors Pre-Calculus, Adv. Quantitative Reasoning, Independent Study in Mathematics, AP Statistics, AP Calculus (AB), AP Calculus (BC), AP Computer Science, Mathematical Models with Applications, Engineering Mathematics; Statistics and Business Decision Making; Mathematics for Medical Professionals
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Science (4 credits) *(*Credit may not be earned for both Physics and Principles of Technology to satisfy science credit requirements)*	**9th** Biology or PAP Biology
	10th *One credit must be selected from the following laboratory-based courses:* Integrated Physics and Chemistry, Chemistry or PAP Chemistry, Physics or Honors Physics*, Principles of Technology, AP Physics I, AP Chemistry, AP Biology
	11th *The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:* Chemistry or PAP Chemistry, Physics or Honors Physics*, Aquatic Science, Astronomy, Environmental Systems, AP Biology, AP Chemistry, AP Physics I, AP Physics II, AP Environmental Science, Advanced Animal Science, Advanced Plant and Soil Science, Anatomy and Physiology, Medical Microbiology, Pathophysiology, Food Science, Forensic Science, Principles of Technology*
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Physical Education (1 credit)	*The required credit may be selected from any combination of the following one-half to one credit courses:* Foundations of Personal Fitness, Team or Individual Sports, Athletics, Junior Reserve Officer Training Corps (JROTC), Drill Team, Marching Band (Fall only), Cheerleading
LOTE (2 credits)	Any two levels in the same language: Spanish, French or two credits in computer programming languages or Special Topics in Language and Culture
Fine Arts (1 credit)	*One credit must be selected from the following courses*: Art I, Art II, Art III, Art IV, Dance I, Dance II, Dance III, Dance IV, Music I, Music II, Music III, Music IV, Theatre I, Theatre II, Theatre III, Theatre IV
Electives (3 credits)	elective options

PATHWAYS	9th GRADE	10th GRADE	11th GRADE	12th GRADE
(A)	Four advanced courses that prepare a student to enter the workforce successfully or postsecondary education without remediation from within one endorsement area or among endorsement areas that are not in a coherent sequence; or			
(B)	Four credits in each of the four foundation subject areas to include English IV and chemistry and/or physics; or			
(C)	Four credits in Advanced Placement, International Baccalaureate, or dual credit selected from English, mathematics, science, social studies, economics, languages other than English, or fine arts.			

A course completed as part of the set of four courses needed to satisfy an endorsement requirement may also satisfy a requirement under §74.12(b) and (c) of this title, including an elective requirement.

Graduation Information

State of Texas Assessment for Academic Readiness (STAAR)

Beginning with entering 9th graders in 2011-2012 school year and beyond

Beginning in the 2011-2012 school year, the state of Texas implemented a new state assessment program that replaced the Texas Assessment of Knowledge and Skills (TAKS). Students that entered high school prior to the 2011-2012 school year, however, will continue to take TAKS.

Beginning with the 2011-2012 entering freshman class and all subsequent classes, students must take and earn a passing score on End-of-Course (EOC) exams. STAAR End-of-Course exams will be required for the following courses:

English I
English II
Algebra I
Biology
U.S. History

Please see your counselor for more information regarding the STAAR End of Course assessments.

Disclaimer: STAAR information in this booklet is based on available information from Texas Education Agency. The Texas Education Agency (TEA) continues to release new information regarding the STAAR EOCs.

Please call the campus for more information or visit TEA's website at www.tea.state.tx.us.

Graduation Requirements

(For 2014-2015 school year entering freshmen and beyond):

Beginning with students who enter grade 9 in the 2014–15 school year, as well as any currently enrolled high school student who decides to graduate under the new foundation graduation program, a student must meet the following requirements to receive a high school diploma from the district:

- Complete the required number of credits established by the state and any additional credits required by the district;
- Complete any locally required courses in addition to the courses mandated by the state;
- Achieve passing scores on certain end-of-course (EOC) assessments or approved substitute assessments, unless specifically waived as permitted by state law; and
- Demonstrate proficiency, as determined by the district, in the specific communication skills required by the State Board of Education.

Foundation Graduation Program

Every student in a Texas public school who enters grade 9 in the 2014–15 school year and thereafter will graduate under a new program called the "foundation graduation program." Within the foundation graduation program are "endorsements," which are paths of interest that include Science, Technology, Engineering, and Mathematics (STEM); Business and Industry; Public Services; Arts and Humanities; and Multidisciplinary Studies. Endorsements earned by a student will be noted on the student's transcript and diploma. The foundation graduation program also involves the term "distinguished level of achievement," which reflects the completion of at least one endorsement and Algebra II as one of the required advanced mathematics credits.

A personal graduation plan will be completed for each high school student. State law and rules prohibit a student from graduating solely under the foundation graduation program without an endorsement unless, after the student's sophomore year, the student and student's parent are advised of the specific benefits of graduating with an endorsement and submit written permission to the school counselor for the student to graduate without an endorsement. A student who anticipates graduating under the foundation graduation program without an endorsement and who wishes to attend a four-year university or college after graduation must carefully consider whether this will satisfy the admission requirements of the student's desired college or university.

Graduating under the foundation graduation program will also provide opportunities to earn "performance acknowledgments" that will be acknowledged on a student's transcript. Performance acknowledgments are available for outstanding performance in bilingualism and bi-literacy; in a dual credit course; on an AP or IB exam; on the PSAT, ACT-Plan, SAT, or ACT exam, which are national exams; or for earning a nationally or internationally recognized license or certificate. The criteria for earning these performance acknowledgments are prescribed by state rules, and the school counselor can provide more information about these acknowledgments.

A student enrolled in high school prior to the 2014–15 school year has the option of graduating under the foundation graduation program rather than the previous graduating programs that would otherwise be applicable to that student. See the school counselor for additional information.

For 2014-2015 school year entering freshmen and thereafter:

The foundation graduation program requires completion of the following credits:

Course Area	Foundation Graduation Program	Foundation Graduation Program with an Endorsement
English/Language Arts	4	4
Mathematics	3	4*
Science	3	4
Social Studies, including Economics	3	3
Physical Education**	1	1
Language other than English***	2	2
Fine Arts	1	1
Professional Communications✸**	.5	.5
Electives	4.5/5.0	6.5/7.0
Miscellaneous		Available Endorsements****: Science, Technology, Engineering, and Math Business and Industry Public Services Arts and Humanities Multidisciplinary
TOTAL ◘	22 credits	26 credits

* In order to obtain the distinguished level of achievement under the foundation graduation program, which will be denoted on a student's transcript and is a requirement to be considered for automatic admission purposes to a Texas four-year college or university, a student must complete an endorsement and take Algebra II as one of the four mathematics credits.

** A student who is unable to participate in physical activity due to a disability or illness may be able to substitute a course in English language arts, mathematics, science, social studies, or another locally determined credit-bearing course for the required credit of physical education. This determination will be made by the student's ARD committee, Section 504 committee, or other campus committee, as applicable.

*** Students are required to earn two credits in the same language other than English to graduate. Any student may substitute computer programming languages for these credits. In limited circumstances, a student may be able to substitute this requirement with other courses, as determined by a district committee authorized by law to make these decisions for the student.

**** A student must specify upon entering grade 9 the endorsement he or she wishes to pursue.

✸ For 2017-2018 entering freshmen and beyond, the 0.5 Speech credit will no longer be required for graduation. [see EIF (LOCAL)]

◘ Local credits do not count toward the state credits required for graduation.

Grade Classification

All students will be classified for grade placement only once each school year. Classification will take place at the time of registration immediately prior to the opening of school. The only exception considered and granted is when a student classified as a junior earns sufficient state credits at the end of the fall semester to become a prospective graduate during the same year.

Grade	Entering Freshmen 2007 – 2008 and Beyond
9th	0 - 5.5 state credits
10th	6 - 11.5 state credits
11th	12 - 18.5 state credits
12th	19 - 26 state credits

Pass/Fail Options

Dear Parent:
In an effort to encourage students to take advanced courses, Harlingen C.I.S.D. is implementing the PASS/FAIL option. At Harlingen C.I.S.D., we believe that it is important for parents to participate in this decision.

Harlingen C.I.S.D. has the following procedures in place to encourage students to take upper level courses which are beyond the graduation requirements.

Students in Grades 9 – 12 must satisfy the graduation requirements for their particular program. The purpose of the pass/fail option is to encourage students to take advanced courses in addition to the total number of units required for graduation. **Students who wish to take courses in addition to the units required for graduation may take no more than two courses on a pass/fail basis**. Students taking a dual credit course **may not** take it on a pass/fail basis. Students earning a grade average of 70 or above in a pass/fail course shall be awarded credit for the course. However, a numerical grade shall not be recorded on the student's transcript nor used in the computation of the student's grade point average, instead a designation of "P" or "F" will be noted on the transcript. Students must declare their intent to take such a course on a pass/fail basis by the end of the fifth class day of the term. See the current Course Description Bulletin @ www.hcisd.org for more information.

Note: Pass/Fail classes are not exempt from the No Pass No Play provisions.

If the student has completed or is in the process of completing the three math units required for graduation, the following math classes may be taken on a pass/fail basis:

- AP Statistics
- AP Calculus AB
- AP Calculus BC
- AP Computer Science A
- Precalculus
- Honors Precalculus
- Advanced Quantitative Reasoning (AQR)
- Independent Study in Mathematics

If the student has completed or is in the process of completing the three science units required for graduation, the following classes may be taken on a pass/fail basis:

- Pathophysiology
- Anatomy/Physiology
- Medical Microbiology
- AP Environmental Science
- AP Biology
- AP Physics 1
- AP Physics 2
- AP Chemistry

If the student has completed or is in the process of completing the two Language Other Than English units required for graduation, the following classes may be taken on a pass/fail basis:

- Spanish III
- Honors Spanish III
- AP Spanish IV Language
- AP Spanish V
- French III
- Honors French III
- AP French IV
- AP Latin

Other Advanced Placement elective courses that may be taken on a pass/fail basis:

- AP Computer Science Principles
- AP Psychology
- AP Studio Art: Drawing
- AP Three Dimensional Design Portfolio
- AP European History
- AP Art History
- AP Two Dimensional Design Portfolio
- AP World History
- AP Human Geography
- AP Music Theory

If you and your child desire the ***pass/fail option***, you must decide by the end of the fifth class day of the term. Please return this form to the teacher whose class in which the pass /fail option is available. Your signature documents your choice.

Teacher _____
Print Name

Student Name _____ Grade Level _____
Print Name

Pass / Fail Class _____

_____ No, I do not choose that my child take the above class as a pass/fail course.

_____ Yes, I choose that my child take the above class as a pass/fail course. Check Pass/Fail for Fall _____ Spring _____

Student's Signature _____ I.D. Number _____ Date _____

Parent's Signature _____ Date _____

For Office Use

Approval Signature _____ Date _____

COLLEGE READINESS ASSESSMENTS

College Entrance Tests

The exams listed below are usually required by most colleges and universities for admission to the institution:

- **ACT**: a composite score of 23 and at least 19 on the English section and 19 on the mathematics section.
- **SAT**: a combined score of 1070 and at least a 500 on both the critical reading and mathematics sections. SAT administered on or after March 5, 2016: a minimum score of 480 on the Evidenced-Based Reading and Writing (EBRW) test shall be exempt for both reading and writing sections of the TSI Assessment; a minimum score of 530 on the mathematics test shall be exempt for the mathematics section of the TSI Assessment.

COLLEGE PLACEMENT TEST (TSI ASSESSMENT)

The State of Texas has mandated all students interested in enrolling in college-level classes for dual credit or college level credit must take an assessment before being able to enroll unless the student is exempt. In addition, students are required to go through an institution specific pre-assessment activity (PAA) before having the tests administered. The new test is called the TSI Assessment. The TSI is designed to help students determine if they are ready for college-level course work in the general areas of reading, writing and mathematics. This assessment also will help determine what type of course or intervention will best meet their needs to help them become better prepared for college level course work if the student is not ready. Based on how the student performs, the student may either be enrolled in a college-level course that matches their skill level or be placed in the appropriate developmental course or intervention to improve their skills and prepare the student for success in college-level courses.

WHAT DOES IT MEASURE?

The **TSI Assessment in Mathematics** is a multiple choice assessment that covers four content areas: **Elementary Algebra and Functions, Intermediate Algebra and Functions, Geometry and Measurement, and Data Analysis, Statistics and Probability**.

The **TSI Assessment in Reading** is a multiple-choice assessment that covers four content areas: **Literary Analysis, Main Idea and Supporting Details**, **Inferences in a Text or Texts**, and **Author's Use of Language.**

The **TSI Assessment in Writing** is a multiple-choice section that measures your skills in four content areas: **Essay Revision, Subject-Verb Agreement, Sentence Structure, and Sentence Logic**.

The **TSI Assessment in Writing (Write Placer)** essay section measures how clearly students state a main idea and provide specific examples and details to back up their main idea in various topics, as well as following the conventions of standard English. Students will not be allowed to use a dictionary or other outside resources, but may use plain scratch paper (provided at the testing center) to plan their essay and write their rough draft(s).

WHAT ARE THE SCORES I NEED?

The Texas Higher Education Coordinating Board (THECB) approved the following scores beginning in fall semester of 2013. These scores will be effective the first class of the fall 2013 semester and last through the summer of 2017. Other "cut" scores will take effect in the fall 2017 and fall 2019.

☐ Mathematics -350

☐ Reading -351

☐ Writing –Essay Score of 5 or an Essay Score of 4 and Multiple Choice of 340

WHAT ARE THE EXEMPTIONS FOR DUAL ENROLLMENT*?

Not all incoming students need to take the TSI Assessment. There are many ways to be exempt from taking the TSI Assessment. Below is a list of exemptions:

(1) For a period of five (5) years from the date of testing, a student who is tested and performs at or above the following standards that cannot be raised by institutions:

(A) ACT: composite score of 23 with a minimum of 19 on the English test shall be exempt for both the reading and writing sections of the TSI Assessment, and/or 19 on the mathematics test shall be exempt for the mathematics section of the TSI Assessment;

(B) SAT: a combined critical reading (formerly "verbal") and mathematics score of 1070 with a minimum of 500 on the critical reading test shall be exempt for both reading and writing sections of the TSI Assessment, and/or 500 on the mathematics test shall be exempt for the mathematics section of the TSI Assessment; or SAT administered on or after March 5, 2016: a minimum score of 480 on the Evidenced-Based Reading and Writing (EBRW) test shall be exempt for both reading and writing sections of the TSI Assessment; a minimum score of 530 on the mathematics test shall be exempt for the mathematics section of the TSI Assessment.

(2) For a period of five (5) years from the date of testing, a student who is tested and performs at or above the following standards that cannot be raised by institutions:

(A) on the Eleventh grade exit-level Texas Assessment of Knowledge and Skills (TAKS) with a minimum scale score of 2200 on the math section and/or a minimum scale score of 2200 on the English Language Arts section with a writing subsection score of at least 3, shall be exempt from the TSI Assessment required under this title for those corresponding sections; or

(B) STAAR end-of-course (EOC) with a final recommended score of Level 2 on the English III shall be exempt under this title for both reading and writing, and a final recommended score of Level 2 on the Algebra II EOC shall be exempt under this title for the mathematics section.

(3) A student who has graduated with an associate or baccalaureate degree from an institution of higher education.

(4) A student who transfers to an institution from a private or independent institution of higher education or an accredited out-of-state institution of higher education and who has satisfactory -ly completed college-level coursework as determined by the receiving institution.

(5) A student who has previously attended any institution and has been determined to have met readiness standards by that institution.

(6) A student who is enrolled in a certificate program of one year or less (Level-One certificates, 42 or fewer semester credit hours or the equivalent) at a public junior college, a public technical institute, or a public state college.

(7) A student who is serving on active duty as a member of the armed forces of the United States, the Texas National Guard, or as a member of a reserve component of the armed forces of the United States and has been serving for at least three years preceding enrollment.

(8) A student who on or after August 1, 1990, was honorably discharged, retired, or released from active duty as a member of the armed forces of the United States or the Texas National Guard or service as a member of a reserve component of the armed forces of the United States.

(A) An institution may exempt a non-degree-seeking or non-certificate-seeking student Developmental coursework and/or interventions in the corresponding area of exemption.

(B) ESOL Waiver--An institution may grant a temporary waiver from the assessment required under this title for students with demonstrated limited English proficiency in order

to provide appropriate ESOL/ESL coursework and interventions. The waiver must be removed prior to the student attempting 15 credit hours of developmental ESOL coursework or attempting entry-level freshman coursework, whichever comes first, at which time the student would be administered the TSI Assessment. Funding limits as defined in Texas Education Code, §51.3062(l) (1) and (2) for developmental education still apply.

(C) Any student who has been determined to be exempt in mathematics, reading, and/or writing under subsection (a) or (b) of this section shall not be required to enroll in developmental coursework and/or interventions in the corresponding area of exemption.

(9) PSAT (dual enrollment students only) combined scores of 107 or higher with a minimum score of 50 in reading and math. These scores will be accepted for those that took the PSAT prior to March of 2016.

***Exemptions and related information are subject to change without notice.**

More information can be found on the following websites: Texas Higher Education Coordinating Board (THECB), Texas Administrative Code or through your high school counselor.

MILITARY READINESS ASSESSMENT

The Armed Services Vocational Aptitude Battery (ASVAB) is a multiple-aptitude battery that measures developed abilities and helps predict future academic and occupational success in the military. The ASVAB tests are designed to measure aptitudes in four domains: Verbal, Math, Science and Technical, and Spatial covered through ten different tests listed below:

- ◊ General Science (GS)
- ◊ Arithmetic Reasoning (AR)
- ◊ Word Knowledge (WK)
- ◊ Paragraph Comprehension (PC)
- ◊ Mathematics Knowledge (MK)
- ◊ Electronics Information (EI)
- ◊ Auto Information (AI)
- ◊ Shop Information (SI)
- ◊ Mechanical Comprehension (MC)
- ◊ Assembling Objects (AO)

Scores from four of the tests — Word Knowledge (WK), Paragraph Comprehension (PC), Arithmetic Reasoning (AR), and Mathematics Knowledge (MK) are combined to compute a score known as the Armed Forces Qualification Test (AFQT). The scores on the AFQT are used to determine the best job and eligibility for enlistment in the Army, Navy, Air Force, or Marine Corps.

Advanced Placement Program

The Pre-Advanced Placement and the Advanced Placement (AP) Program is an opportunity for students to pursue a rigorous course of study by enrolling in Pre-AP and AP courses. It also provides a chance to receive credit for college-level course work by taking and scoring the appropriate score on an AP exam. The AP program, sponsored and governed by the College Board, is based on the premise that college-level material can successfully be learned by well-prepared secondary students. Like other College Board programs, the AP program is national in scope and is based on a set of standards and course descriptions approved by the College Board.

Exams are administered in the month of May and then scored at the national level. College credit may be awarded based on the student's score from member institutions.

Students may enter Pre-AP and AP classes through self-nomination, parent request, and/or teacher recommendation. Classes include: Language Arts, Social Studies, Mathematics, Science, Foreign Languages and Fine Arts.

Information about the AP program may be obtained from a high school counselor, the College Board Website, or the Office of Advanced Academic Services, at 956-427-3545.

Guidelines for Independent Study Courses

Eligible participants: Juniors and Seniors

Expectations:

- Student performance must be at the collegiate or professional level;
- Students must successfully complete the curriculum standards in the appropriate content area;
- Identify a researchable topic that includes well-defined questions, goals, and objectives, rationale, and procedures for the project;
- Topics must be approved in advance by the appropriate department chairperson and teacher; and
- Student will be required to meet with a panel of experts in their field of study.
- Original work must be completed in print or in another medium with a demonstration of advanced skills that include:
- A review of the relevant literature gathered from a variety of sources using several techniques;
- Relevant and researchable research questions and hypotheses;
- Observation and measurements;
- Organization of new information in systematic ways;
- Appropriate investigation procedures;
- Valid conclusions based on data;
- Relevant questions for further study based on the research findings; and bibliography.

Criteria:

- Student must be enrolled in an approved/available independent study course.
- Independent study courses may be taken on a pass/fail basis if eligible under the pass/fail criteria.
- Independent study courses may/may not count toward a student's grade point average. This would depend on the course.
- Independent study courses may be counted as an advanced measure for the Distinguished Achievement program if they meet the criteria.

Early Graduation Petitioning Process

To be eligible to petition for early graduation, a student must:

- Pass all areas of State Assessment, and
- Process the application within the first nine weeks of school.

The best time to request early graduation is during the pre-registration process when the selection of courses for the next school year are being made.

Procedures

- The student meets with counselor to develop a 3 or 3 ½ year graduation plan. Avenues for acceleration include credit-by-examination without prior instruction, correspondence courses, and concurrent enrollment with administrative approval.

- The parent, student, and counselor meet to discuss course load and after-graduation plans. If everyone is in agreement that early graduation is in the best interest of the student, the Petition for Early Graduation form is then completed in the counselor's office as well as any other paperwork required. The student, the parent, and the counselor sign the form at this time.

- The counselor completes a Senior Audit form and prepares a sample schedule of classes required for graduation.

- The counselor prepares and reviews the following:

⇒ Senior Audit form
⇒ Sample schedule listing all graduations requirements
⇒ Current transcript
⇒ Completed Petition for Early graduation and any other required paperwork
⇒ If the petition is approved, the principal signs the petition and returns the packet to the counselor.
⇒ The counselor notifies the parents that the petition has been approved and mails or gives the white petition copy to the student.
⇒ The counselor assembles all approved petitions, prepares a list of early graduates, and submits the list along with the pink petition to the principal. A copy of this list should also go to the registrar.

Edgenuity Program Description

Edgenuity is a self-paced, online learning system. Eligible students accepted into the program will have the opportunity to accrue credits in order to complete graduation requirements. These classes will consist of both online and off-line assignments. Students will have access to the Edgenuity laboratory before school and after school.

Eligibility Criteria: Students who are interested in taking Edgenuity courses must submit a completed application which has been signed and approved by the principal, counselor, parent and student.

The eligibility criteria for enrolling in Edgenuity are as follows:

- Needs to repeat a course in which he/she was previously unsuccessful.
- Needs the course to graduate within four years of entering the ninth grade.
- Is over-age for the current grade classification.
- Is in need of remediation for a specific class.
- Since limited slots are available, priority will be given to seniors first, then juniors, sophomores and freshmen respectively.

Edgenuity credits are not included in the calculation of students' Grade Point Average (GPA).

The following courses are available under the credit recovery option:

◊ Mathematics: Algebra I, Math Models with Applications, Geometry, Algebra II, and Pre-Calculus

◊ English Language Arts: English I, II, III, and IV

◊ Social Studies: World Geography, World History, U.S. History, Government, Economics

◊ Science: Biology, Chemistry, Physics, Environmental Systems, Integrated Physics and Chemistry

◊ Other: Health, Sociology, Psychology, Foundations of Personal Fitness, Spanish I and Spanish II

Migrant Education Program

Definition

The term "migratory child" is one who is not older than 21 years of age; and has a parent, spouse, or guardian that has moved within the preceding 36 months seeking seasonal employment in the areas of agriculture, fishery, or packing plants; requiring the child to move from one school district to another.

Supplemental Support Services and Resources

Elementary and Secondary Migrant Counseling Services	Graphing Calculators (available for checkout)	Migrant College Scholarships
Summer School Paid Tuition for Credit Recovery	Project SMART Enrichment Summer Program	Texas Migrant Interstate Program
Parent Advisory Council Meetings	School Supplies	

Migrant Scholarships/Assistance Programs

College Assistance Migrant Program (CAMP) Grant/Scholarship	Albert Lee Wright, Jr. Memorial Migrant Scholarship	AMET (Association for Migrant Education of Texas) Scholarship
MALDEF Mexican American Legal Defense Fund: Scholarship Resources	Claudio M. Gonzales Scholarship	Aurelio "Larry" Jazo Memorial Migrant Scholarship
Migrant Farmworkers Baccalaureate Scholarship (from the university)	Margaret Raley New York State Migrant Student Scholarship	

CAMP (College Assistance Migrant Program)

The College Assistance Migrant Program (CAMP) is designed to serve first-year college students with a migrant/seasonal farm worker background. Through intensive academic services, personal guidance and financial assistance, CAMP helps students transition from high school to college and develop the skills necessary to succeed through their post-secondary educational journey, during their first year in the participating Institution of Higher Learning (IHL).

CAMP is funded by the US Department of Education. Any student who, at one point or another, qualified for the Migrant Program during their high school years, may be eligible to apply. The following states have Institutions of Higher Learning (IHL) that offer the College Assistance Migrant Program (CAMP). Please refer to the university/college to inquire about their admission/acceptance procedures for their CAMP program.

TEXAS	
St. Edwards University	West Texas A&M University
University of Texas at El Paso	El Paso Community College
The University of Texas Rio Grande Valley	Texas A&M International University, Laredo
Texas State Technical College, Harlingen	University of Houston

OTHER STATES	
ARIZONA	MICHIGAN
CALIFORNIA	MISSOURI
COLORADO	NEW MEXICO
FLORIDA	NEW YORK
GEORGIA	OREGON
IDAHO	PENNSYLVANIA
KANSAS	WASHINGTON

Awarding of funds may vary from university to university in any state.
Not all universities offer the CAMP program.

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ACADEMIC ACHIEVEMENT EIC
CLASS RANKING (LOCAL)

Determining Class Rank

All graduating students shall be ranked by grade point average (GPA). The rank shall be calculated at the end of each term/semester. If the averages of two or more students are identical, a tie shall be declared.

Except for Advanced Placement (AP) programs, Honors, and dual credit courses offered during the traditional school day and identified in this policy, grades earned in traditional correspondence courses, pass/fail courses, concurrent enrollment/dual credit courses, summer school courses, evening high school courses, credit recovery programs, distance learning courses, and grades earned through credit by examination shall not be considered when determining class rank.

Students graduating at midyear shall be ranked at the end of the year. Students graduating after the end of the school year shall be ranked when all requirements are met and shall not be allowed to displace in rank a student who graduated at the end of the school year.

Interdistrict / Out-of-District Transfers

Grades earned in dual credit courses as part of the District's early college high school shall be considered when determining class rank and shall receive the same grade points as a Pre-AP, Honors, or AP course as long as the student remains at the early college high school. Students returning to the District high schools shall have their GPA recomputed based on the District's policy for determining class rank.

Grades transferred from other schools shall be averaged as if taken from District schools, as long as the courses are comparable. Applicable credits earned in any accredited school in grades 9–12 shall be included in the calcula tion of GPA.

Calculation of Class Rank

The District shall use a two-tiered weighted grade point system. Grades shall be weighted according to the following scale:

Grade	Pre-AP / AP / Honors/ Dual Enrollment	Advanced
100	5.0	4.0
99	4.9	3.9
98	4.8	3.8
97	4.7	3.7
96	4.6	3.6
95	4.5	3.5
94	4.4	3.4
93	4.3	3.3
92	4.2	3.2
91	4.1	3.1
90	4.0	3.0
89	3.9	2.9
88	3.8	2.8
87	3.7	2.7
86	3.6	2.6
85	3.5	2.5

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84	3.4	2.4
83	3.3	2.3
82	3.2	2.2
81	3.1	2.1
80	3.0	2.0
79	2.9	1.9
78	2.8	1.8
77	2.7	1.7
76	2.6	1.6
75	2.5	1.5
74	2.4	1.4
73	2.3	1.3
72	2.2	1.2
71	2.1	1.1
70	2.0	1.0

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ACADEMIC ACHIEVEMENT EIC
CLASS RANKING (LOCAL)

GPA shall be determined through credits earned in grades 9–12. Credits earned in grades 7–8 shall not be used in the determination of GPA. The following courses shall be used when calculating class rank:

Pre-AP / AP / Honors / Dual Enrollment English	**Advanced English**
Pre-AP English I	English I
Pre-AP English II	English II
AP English III	English III
English III–Dual	English IV
AP English IV	ESOL I
English IV–Dual	ESOL II
Pre-AP Independent Study in English*[5]	Independent Study in Journalism
	Independent Study in Speech

Pre-AP / AP / Honors/ Dual Enrollment Social Studies	**Advanced Social Studies**
AP U.S. History	U.S. History
U.S. History–Dual	U.S. Government
AP U.S. Government	Economics
U.S. Government-Dual	World Geography
AP European History	World History Studies
AP Economics	Latin American Studies
Pre-AP World Geography	
Pre-AP World History*[5]	
Pre-AP Social Studies–Advanced Studies*[5]	
Pre-AP Special Topics in Social Studies*[5]	
AP Human Geography	
AP World History	
AP Psychology	
Psychology–Dual	

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Pre-AP / AP / Honors/ Dual Enrollment Science	Advanced Science
Pre-AP Biology	Biology
Pre-AP Chemistry	Chemistry
Pre-AP Physics*5	Physics
Pre-AP Environmental Systems*5	Anatomy and Physiology of Human Systems*4
AP Biology	Anatomy and Physiology of Human Systems–Dual
AP Biology–Dual	Aquatic Science
AP Chemistry	Environmental Systems
AP Chemistry–Dual	Medical Microbiology
AP Physics I	Pathophysiology
AP Physics II	Integrated Physics and Chemistry
Physics C	Principles of Technology I
AP Environmental Science	Astronomy
	Earth and Space Science
	Scientific Research and Design I
	Advanced Animal Science*2
	Advanced Plant and Soil Science*2
	Food Science*2
	Forensic Science*2
	Engineering Design and Problem Solving*2

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Pre-AP / AP / Honors / Dual Enrollment Mathematics	Advanced Mathematics
Pre-AP Geometry	Algebra A
Pre-AP Algebra II*[5]	Algebra B
Algebra II–Dual	Algebra I
Pre-AP Precalculus*[5]	Geometry
Precalculus–Dual	Algebra II
AP Statistics	Precalculus
Statistics–Dual	Mathematics Models with Application
AP Calculus AB	Advanced Math Topics
AP Calculus BC	Independent Study in Mathematics
AP Calculus–Dual	Advanced Quantitative Reasoning

Pre-AP / AP / Honors / Dual Enrollment Foreign Languages	Advanced Foreign Languages
Pre-AP French III*[5]	French I*[1]
AP French IV	French II*[1]
AP French V	French III
AP German III	German I*[1]
AP Advanced Spanish III	German II*[1]
AP Spanish III	German III
Pre-AP Spanish III*[5]	Spanish I*[1]
Spanish III–Dual	Spanish II*[1]
AP Spanish IV	Spanish III
AP Spanish IV–Dual	
AP Spanish V	

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AP / Honors Preparation Courses
Pre-AP Studio Art*5
Pre-AP Visual Arts
Pre-AP Business Computer Programming II*5
AP Art History
AP Two-Dimensional Design Portfolio
AP Three-Dimensional Design Portfolio
AP Art/Drawing Portfolio
AP Music Theory
AP Computer Science A
AP Computer Science Principles*3

*1 Effective with freshmen entering during the 2011–12 school year and thereafter, these Foreign Language classes shall not be calculated for GPA and class rank.

*2 Effective beginning with the 2013–14 school year, these science classes shall be calculated for GPA and class rank.

*3 AP Computer Science Principles shall be calculated for GPA and class rank for students completing the course in the 2017–18 school year and thereafter.

*4 Effective with freshmen entering during the 2018–19 school year, this science course, as part of the District's Harlingen School of Health Professions, shall receive the same grade points as a Pre-AP, Honors, or AP course as long as the student remains at the Harlingen School of Health Professions. Students returning to the District high schools shall have their GPA recomputed based on the District's policy for determining class rank.

*5 Effective beginning with the 2020–21 school year, these courses shall be designated as Honors courses and shall be calculated for GPA and class rank.

For students that took high school level classes in the spring semester of the 2019–20 school year, the District shall exclude grades from the fourth quarter of the spring semester of the 2019–20 school year from the calculation of GPA. This exclusion from the calculation of GPA shall apply equally to all students taking high school level classes in the spring semester of the 2019–20 school year, whether those classes were taken in the District or taken by students who have transferred into the District during or after spring 2020.

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Courses taken on a pass/fail basis shall be excluded in the computation of GPA and honor roll calculation.
Any student requesting to drop a course must submit a written request prior to the fifth day of class. Students shall be reclassified at the beginning of the school year based on accrued credits. Potential graduates shall be reclassified at the end of the first term. [See EIE (LOCAL)]

Valedictorian / Salutatorian

The eligible candidate with the highest class rank shall be named valedictorian. The eligible candidate having the second-highest class rank shall be named salutatorian. A candidate shall be ineligible if he or she has failed any course. Class rank shall be calculated at the end of the third quarter of a student's senior year for recognition purposes (i.e., valedictorian, salutatorian, top ten percent).

To be eligible for valedictorian or salutatorian honors, a student shall be required to:

1. Complete four consecutive terms in the District and spend his or her entire graduating year at the high school campus from which he or she is graduating. An entry date beyond the first day of the graduating year shall only be allowable for migrant students.

2. Earn credits in a total of ten Pre-AP/AP courses in grades 9–12. Five of the courses shall be selected from the humanities, which includes foreign languages. The other five courses shall be in the mathematics/science area.

3. Earn credits in at least two Pre-AP/AP courses each year.

In the event of a tie after the grade average is computed to the third decimal place, the following procedures shall be used:

1. In the event of a tie for the valedictorian position, the District shall honor co-valedictorians, and no salutatorian shall be named.

2. In the event of a tie for the salutatorian position, the District shall honor co-salutatorians.

Top Ten Recognition Honors

Effective with freshmen entering during the 2017–18 school year and thereafter, to be eligible for top ten recognition honors, a student shall be required to complete four consecutive terms in the District and spend his or her entire graduating year at the high school campus from which he or she is graduating. An entry date beyond the first day of the graduating year shall only be allowable for migrant students.

Early Graduates

To be eligible to graduate in three years, a student shall complete all required coursework and exit-level testing.
Students wishing to graduate early shall file an application in the principal's office. Three-year graduates shall be eligible for all honors positions.

Note: The following provisions shall be effective with freshmen entering during the 2024-25 school year and thereafter.

Determining Class Rank

All graduating students shall be ranked by grade point average (GPA). The rank shall be calculated at the end of each term/semester. If the averages of two or more students are identical to the third decimal, a tie shall be declared.

The GPA calculation shall include failing grades for courses included in EIC(LOCAL) policy.

If a student in any graduating class successfully completes a course but decides to repeat the course, only the semester grade(s) for the first attempt of the course will be included in the calculation of class rank. The second attempt will not be assigned credit.

Except for Advanced Placement (AP) programs, Honors, and dual credit courses offered during the traditional school day and identified in this policy, grades earned in traditional correspondence courses, pass/fail courses, concurrent enrollment/dual credit courses, summer school courses, evening high school courses, credit recovery programs, distance learning courses, and grades earned through credit by examination shall not be considered when determining class rank.

The District shall include up to four dual credit courses for acceleration taken outside of the regular school day when the courses are taken through an institution with which the District has an articulated agreement or memorandum of understanding. The courses must be included in EIC(LOCAL) policy. Students must visit with the school counselor and obtain principal approval prior to enrolling in dual courses.

Students graduating at midyear shall be ranked at the end of the year. Students graduating after the end of the school year shall be ranked when all requirements are met and shall not be allowed to displace in rank a student who graduated at the end of the school year.

Intradistrict / Out-of-District Transfers

Grades earned in dual credit courses as part of the District's specialty high schools shall be considered when determining class rank and shall receive the same grade points as a Pre-AP/Honors or AP/Dual course as long as the student remains at the specialty high school. Students returning to the District's comprehensive high schools shall have their GPA recomputed based on the District's policy for determining class rank.

Grades transferred from other schools shall be averaged as if taken from District schools, as long as the courses are comparable. Applicable credits earned in any accredited school in grades 9-12 shall be included in the calculation of GPA.

Calculation of Class Rank

The District shall use a three-tiered weighted grade point system. Grades shall be weighted according to the following scale:

Grade	AP / Dual Enrollment	Pre-AP / Honors	Standard
100	6.0	5.0	4.0
99	5.9	4.9	3.9
98	5.8	4.8	3.8
97	5.7	4.7	3.7
96	5.6	4.6	3.6
95	5.5	4.5	3.5
94	5.4	4.4	3.4
93	5.3	4.3	3.3
92	5.2	4.2	3.2
91	5.1	4.1	3.1
90	5.0	4.0	3.0
89	4.9	3.9	2.9
88	4.8	3.8	2.8
87	4.7	3.7	2.7
86	4.6	3.6	2.6
85	4.5	3.5	2.5
84	4.4	3.4	2.4
83	4.3	3.3	2.3
82	4.2	3.2	2.2
81	4.1	3.1	2.1
80	4.0	3.0	2.0
79	3.9	2.9	1.9

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ACADEMIC ACHIEVEMENT EIC
CLASS RANKING (LOCAL)

Grade	AP / Dual Enrollment	Pre-AP / Honors	Standard
78	3.8	2.8	1.8
77	3.7	2.7	1.7
76	3.6	2.6	1.6
75	3.5	2.5	1.5
74	3.4	2.4	1.4
73	3.3	2.3	1.3
72	3.2	2.2	1.2
71	3.1	2.1	1.1
70	3.0	2.0	1.0

A student shall be awarded additional grade points for scores earned on corresponding AP exams taken in grades 9-11 at the first opportunity after enrolling in the course for eligible courses listed in EIC(LOCAL) policy in any category in accordance with the following:

Score on AP Exam	Additional Grade Points
3	1.0
4	2.0
5	3.0

A student shall be awarded additional grade points for scores earned on corresponding eligible AP exams taken in grades 9-11 at the first opportunity after enrolling in an eligible AP course in accordance with the chart above.

GPA shall be determined through credits earned in grades 9-12. Credits earned in grades 7-8 shall not be used in the determination of GPA. The following courses shall be used when calculating class rank:

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ACADEMIC ACHIEVEMENT EIC
CLASS RANKING (LOCAL)

AP/Dual Enrollment English	Pre-AP /Honors / English	English
AP English III	Pre-AP English I	English I
English III — Dual	Pre-AP English II	English II
AP English IV		English III
English IV — Dual		English IV
		ESOL I
		ESOL II

AP / Dual Enrollment Social Studies	Pre-AP / Honors Social Studies	Social Studies
AP U.S. History	Pre-AP World Geography	U.S. History
U.S. History — Dual	Pre-AP World History*5	U.S. Government
AP U.S. Government		Economics
U.S. Government — Dual		World Geography
AP European History		World History Studies
AP Economics		
AP Human Geography*7		
AP World History*7		
AP Psychology		
Psychology — Dual		

AP / Dual Enrollment Science	Pre-AP / Honors/ Science	Science
AP Biology	Pre-AP Biology	Biology
AP Biology — Dual	Pre-AP Chemistry	Chemistry
AP Chemistry	Pre-AP Physics*[5]	Physics
AP Chemistry — Dual	Pre-AP Environmental Systems*[5]	Aquatic Science
AP Physics I	Anatomy and Physiology of Human Systems	Environmental Systems
AP Physics II		Integrated Physics and Chemistry
Physics C		Astronomy
AP Environmental Science		
Anatomy and Physiology of Human Systems — Dual		

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ACADEMIC ACHIEVEMENT EIC
CLASS RANKING (LOCAL)

AP / Dual Enrollment Mathematics	Pre-AP / Honors / Mathematics	Mathematics
Algebra II — Dual	Pre-AP Geometry	Algebra A
Precalculus — Dual	Pre-AP Algebra II*4	Algebra B
AP Precalculus*6		Algebra I
AP Statistics	Pre-AP Precalculus*4	Geometry
Statistics — Dual		Algebra II
AP Calculus AB*7		Precalculus
AP Calculus BC*7		Mathematics Models with Application
		Math for Medical Professions

AP Preparation Courses	Pre-AP / Honors Preparation Courses
AP Art History	Pre-AP Studio Art*4
AP Two-Dimensional Design Portfolio	Pre-AP Visual Arts
AP Three-Dimensional Design Portfolio	Pre-AP Business Computer Programming II*4
AP Art/Drawing Portfolio	Pre-AP French III*4
AP Music Theory	Pre-AP Spanish III*4
AP Computer Science A	Honors ASL III*5
AP Computer Science Principles*3	Honors Mandarin III*5
AP French IV	
AP French V	
AP German III	

*[1] Effective with freshmen entering during the 2011-12 school year and thereafter, these Foreign Language classes shall not be calculated for GPA and class rank.

*[2] Effective beginning with the 2013-14 school year, these science classes shall be calculated for GPA and class rank.

*[3] AP Computer Science Principles shall be calculated for GPA and class rank for students completing the course in the 2017-18 school year and thereafter.

*[4] Effective beginning with the 2020-21 school year, these courses shall be designated as Honors courses and shall be calculated for GPA and class rank.

*[5] Effective beginning with the 2022-23 school year, these courses shall be calculated for GPA and class rank.

*[6] Effective beginning with the 2023-24 school year, these courses shall be calculated for GPA and class rank.

*[7] Effective with freshmen entering during the 2024-25 school year and thereafter, students taking these courses may earn additional grade points for passing AP Exams as described in EIC(LOCAL) policy.

For students that took high school level classes in the spring semester of the 2019-20 school year, the District shall exclude grades from the fourth quarter of the spring semester of the 2019-20 school year from the calculation of GPA. This exclusion from the calculation of GPA shall apply equally to all students taking high school level classes in the spring semester of the 2019-20 school year, whether those classes were taken in the District or taken by students who have transferred into the District during or after spring 2020.

Courses taken on a pass/fail basis shall be excluded in the computation of GPA and honor roll calculation.

Any student requesting to drop a course must submit a written request prior to the fifth day of class. Students shall be reclassified at the beginning of the school year based on accrued credits. Potential graduates shall be reclassified at the end of the first term. [See EIE(LOCAL)]

Valedictorian / Salutatorian

The eligible candidate with the highest class rank shall be named valedictorian. The eligible candidate having the second-highest class rank shall be named salutatorian. A candidate shall be ineligible if he or she has failed any course. Class rank shall be calculated at the end of the third quarter of a student's senior year for

recognition purposes (i.e., valedictorian, salutatorian, top 10 percent).

To be eligible for valedictorian or salutatorian honors, a student shall be required to:

1. Complete four consecutive terms at the campus and spend his or her entire graduating year at the high school campus from which he or she is graduating. An entry date beyond the first day of the graduating year shall only be allowable for migrant students.
2. Graduate after exactly four years of enrollment in high school.
3. Earn credits in a total of 10 Pre-AP/Honors/AP/Dual courses in grades 9-12. Five of the courses shall be selected from the humanities, which includes foreign languages. The other five courses shall be in the mathematics/science area.
4. Earn credits in at least two Pre-AP/Honors/AP/Dual courses each year.

In the event of a tie after the grade average is computed to the third decimal place, the following procedures shall be used:

1. In the event of a tie for the valedictorian position, the District shall honor co-valedictorians, and no salutatorian shall be named.
2. In the event of a tie for the salutatorian position, the District shall honor co-salutatorians.

Top 10 Recognition Honors

Effective with freshmen entering during the 2017-18 school year and thereafter, to be eligible for top 10 recognition honors, a student shall be required to complete four consecutive terms in the District and spend his or her entire graduating year at the high school campus from which he or she is graduating. An entry date beyond the first day of the graduating year shall only be allowable for migrant students.

Early Graduates

To be eligible to graduate in three years, a student shall complete all required coursework and exit-level testing.

Students wishing to graduate early shall file an application in the principal's office. Three-year graduates shall be eligible for all honors positions with the exception of valedictorian and salutatorian.

College Start

College Start Options

College Start provides students at HCISD a great opportunity to begin earning college credits and the ability to test and prove their college readiness while still enrolled in high school. HCISD offers three options that are described below. Students and parents should discuss the College Start options with their high school counselor.

Concurrent Enrollment

This option allows students to enroll at a post-secondary institution and earn college credit. The course(s) may be eligible to transfer as a high school course and receive credit. Since all courses are subject to change without notice it is best to discuss this option with your counselor before enrolling in a course. Student must request the transfer of credit in writing and have an official transcript sent from their college to the high school.

*Notes for Concurrent Enrollment Courses:

- Interested students must be enrolled in at least four (4) high school courses per term at a HCISD high school campus in order to be eligible. Students in the 12th grade receiving a grade of "B" or better may be able to fulfill one of the measures for the Distinguished Achievement Program.
- Concurrent enrollment credits are not calculated for ranking or GPA purposes even if it transfers as a high school credit. Any correspondence with the institution or faculty member is strictly the responsibility of the student, and students must provide their own transportation, pay tuition, and others fees at the institution.

Dual Credit Option

The dual credit option allows students to earn college credit by taking courses that have been approved for high school credit. These courses are taught at the campus by a high school teacher that has been approved by the institution of higher education. The table below identifies courses from a local institution that have been approved. For information on the latest approved courses and other options for dual credit, visit your high school counselor.

DUAL ENROLLMENT COURSES

High School Course	College Course Number	College Course Name	College Credits	College Granting Credit	High School Campus
Algebra II (Dual)	MATH 1314	College Algebra	3	TSC	HHS and HHS South
Anatomy & Physiology (Dual)	BIOL 2301	Anatomy & Physiology I (Lec)	3	TSC	HHS South Only
	BIOL 2101	Anatomy & Physiology I (Lab)	1	TSC	HHS South Only
AP Biology (Dual)	BIOL 1308	Biology I for Non-Science Majors	3	TSC	HHS and HHS South
	BIOL 1108	Biology I Lab for Non-Science Majors	1	TSC	HHS and HHS South
AP Biology (Dual)	BIOL 1309	Biology II for Non-Science Majors	3	TSC	HHS and HHS South
	BIOL 1109	Biology II Lab for Non-Science Majors	1	TSC	HHS and HHS South
AP Calculus AB (Dual)	MATH 2413	Calculus I	4	TSC	HHS and HHS South
Pre-Calculus (Dual)	MATH 2412	Pre-Calculus	4	TSC	HHS and HHS South
English III (Dual)	ENGL 1301	Composition I	3	TSC	HHS and HHS South
	ENGL 1302	Composition II	3	TSC	HHS and HHS South
English IV (Dual) (Yr.1)	ENGL 1301	Composition I	3	TSC	HHS and HHS South
	ENGL 1302	Composition II	3	TSC	HHS and HHS South
English IV (Dual) (Yr.2)	ENGL 2321	British Lit.	3	TSC	HHS and HHS South
Music Appreciation (Dual)	MUSI 1306	Music Appreciation	3	TSC	CFA, HHS and HHS South
Public Speaking I (Dual)	SPCH 1315	Public Speaking	3	TSC	CFA, HHS and HHS South
Psychology (Dual)	PSYC 2301	General Psychology	3	TSC	HHS South Only
Spanish III (Dual)	SPAN 2313 / 2315	Spanish for Native Speakers I & II	6	TSC	HHS and HHS South
U.S. Government (Dual)	GOVT 2305	Federal Government	3	TSC	HHS Only
U.S. History Studies (Dual)	HIST 1301 / 1302	United States History I & II	6	TSC	HHS & HHS South

All courses offered are subject to change or cancellation without notice. In order for courses to qualify for dual credit, specific requirements must be met by the student and certain documents must be submitted prior to established deadlines. Courses must have a minimum number of qualified students enrolled in order to sustain the class as a dual credit class. See your high school counselor for the latest information and requirements.

College Start Information and Requirements

Admissions and Enrollment

- It is the student's responsibility to submit all paperwork on time and meet any deadlines.
- A separate application to the college may be necessary. Check with your counselor.
- Qualifying placement scores from an Institutional or State approved exam such as TSIA Assessment.
- Additional documents such as transcript(s) and a parent permission form are required.
- Submitting the paperwork is not a guarantee of enrollment in the course. Student
- should check with their counselor and/or the admissions office of the institution on their status.
- Course must have a minimum number of students enrolled in order to sustain the class.
- If dropping a dual credit class, students must submit the required form(s) before any deadline in order to avoid a grade of an "F" or an "Incomplete."
- College credits earned may transfer to different colleges and universities. The student should verify and discuss this with the college and/or university of choice.

Grades earned through any of the options become part of the student's official college transcript.

Other

- Students must attend at least four high school courses per term at a HCISD high school campus.
- Students in the 12th grade receiving a grade of "B" or better may fulfill one of the measures for the Distinguished Achievement Program. Check with your counselor.
- College hours earned in high school may be subject to Texas Higher Education Coordinating Board (THECB) rules regarding excess hours. Hours which exceed a student's selected college degree plan may be subject to additional fees.
- Some of the courses listed may require pre-requisites.
- All options, requirements, and courses are subject to change without notice.
- Check with your high school counselor for the latest options, information on requirements, and course offerings.

Grades and Credits

- Student agrees to have periodic reports of progress and grades made available to school district representative(s).

Dual Enrollment Information

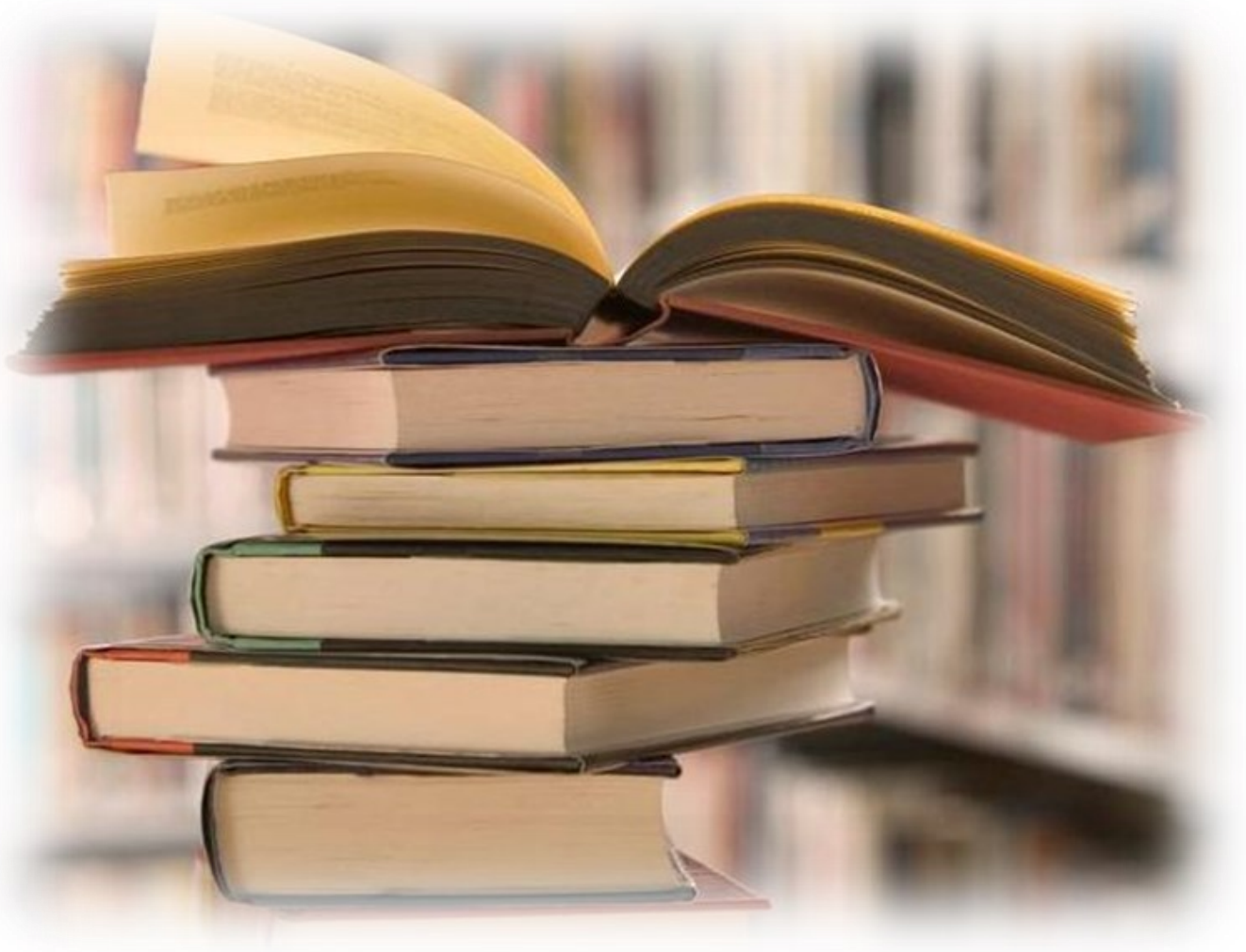
All HCISD courses designated as Dual/ AP courses are dual coded courses. If taught by a high school teacher that is designated as an adjunct by TSC, the course carries the GPA ranking weight of AP courses identified in school board policy and students can earn high school and college credit at the same time. All students interested in receiving college credit from TSC must enroll into TSC and adhere to all criteria and submit all required documents prior to established deadlines. Requirements include but not limited to the following:

- Attend a dual enrollment orientation/information session at your high school campus.
- Complete the online application at www.applytexas.org. When you complete the application you must indicate your interest in **"Dual Credit"** at Texas Southmost College.
- Successfully pass all or part of the TSIA exam. See "Eligibility Criteria" for more information.
- Submit completed "Student Guidelines & Parental Consent" form to your high school counselor.
- If in 9th or 10th grade, submit completed "Request for Dual Enrollment Courses as a Freshman or Sophomore" form to your high school counselor.
- Meet with your high school counselor and determine the courses in which you would like to enroll.

Career & Technical Education Dual Enrollment

There are several CTE pathways in which students can take courses at Texas State Technical College at the Harlingen campus. These courses are taught by TSTC instructors. Students receive both college and high school credit for these courses. These programs are identified in the appropriate Career and Technical Education Program of Study sections of this bulletin.

TSTC PROGRAM	HCISD CTE ACADEMY
Aircraft Powerplant Technician Program	Automotive Training Academy
Biomedical Equipment Technology Program	Pre-Engineering Academy
Building Construction Craftsman Program	Apprenticeship Academy
Digital Media & Design Program	Media Arts and Communications Academy
Education and Training Program	Teacher Academy
Precision Machining Program	Apprenticeship Academy
Web Development Program	Information Technology Academy
Wind Energy Technician Program	Pre-Engineering Academy



Academic Courses

English

English I
(ENG I) (PEIMS #:03220100)
Grade Level: 9
Semesters: 2
Credit: 1

Prerequisite: None

In English 1, students experience an academic atmosphere that will improve and expand their reading, writing, and communication skills, thus building a foundation for their high school and post-secondary academic careers. Student will practice all forms of writing with emphasis on clarity, logic, organization, and the ability to write for a purpose. English 1 students will encounter various genres of literature including poetry, drama, informational texts, fiction and literary nonfiction. Close reading and evidence based writing will help students understand literacy forms and terms associated with selections being read. Students will also interpret the possible influence of the historical context on a literary work. Special emphasis is placed on the subject matter found in the TEKS: reading, writing, research, listening, speaking, grammatical conventions, vocabulary enrichment, and technology skills. A state assessment (STAAR EOC) is required for graduation.

Pre-AP English I
(ENG I) (PEIMS #03220100)
Grade Level: 9
Semesters: 2
Credit: 1

Prerequisite: None

This course is designed for the highly motivated student who has the potential to demonstrate an outstanding ability in language arts and reading. The Pre-AP student will have a firm command of the English language with an emphasis on the continued development of their reading, writing, and communication skills. This course will help students build a foundation for their high school and post-secondary academic careers with the refinement of their grammatical skills, vocabulary usage, reflective literary and expository composition writing, and analysis of literary genres, research, and technology skills which support the TEKS objectives. Students will encounter various genres of literature including poetry, drama, informational texts, and fiction and literary nonfiction. Close reading and evidence-based writing will help students understand literacy forms and terms associated with selections being read. Students will also interpret the possible influence of the historical context of a literary work. A state assessment (STAAR EOC) is required for graduation.

English II
(ENG 2) (PEIMS #: 03220200)
Grade Level: 10
Semesters: 2
Credit: 1

Recommended Prerequisite: English I

In English II, students practice all forms of writing. An emphasis is placed on persuasive techniques such as logical arguments and expressions of opinion, as well as personal forms of writing. These personal forms of writing may include a response to literature, a reflective essay, or an autobiographical narrative. English II students read extensively in multiple genres from world literature such as reading selected stories, dramas, novels, and poetry originally written in English or translated to English from oriental, classical Greek, European, African, South American, and North American cultures. Students learn literary forms and terms associated with selections being read. Students interpret the possible influences of the historical context on a literary work. Students will listen to, analyze, appreciate, and evaluate oral performances and presentations by using a variety of forms and technologies. Special emphasis is placed on the subject matter found in the TEKS: reading, writing, research, listening, speaking, grammatical conventions, vocabulary enrichment, and technology skills. A state assessment (STAAR EOC) is required for graduation.

Pre-AP English II Semesters: 2
(ENG 2) (PEIMS #03220200) Credit: 1
Grade Level: 10

Recommended Prerequisites: English I; Pre-AP English I

This course is for the tenth-grade student who has demonstrated outstanding ability in reading and language arts skills and who is highly motivated to achieve in the areas of writing and literature. Emphasis is placed on critical thinking skills and reflective, expository, and persuasive writing. This course not only focuses on the correct use of grammar, but also on advanced reading skills that enhance comprehension and vocabulary development and prepares the student for the PSAT, state assessments, and AP English course exams. The student will use new trends in technology to research and compile reports and projects, and to write a documented critical or expository essay using the MLA format. A state assessment (STAAR EOC) is required for graduation. Summer reading for this course is a prerequisite.

English III Semesters: 2
(ENG 3) (PEIMS #: 03220300) Credit: 1
Grade Level: 11

Recommended Prerequisite: English II

In English III, students practice all forms of writing while focusing on critical thinking skills. English III students read extensively in multiple genres from American literature and other world literature. Periods from American literature may include the pre-colonial period, colonial and revolutionary periods, romanticism and idealism, realism and naturalism, early 20th century, and late 20th century. Students learn literary forms and terms associated with selections being read. Students interpret the possible influences of the historical context of a literary work. The class will require a documented critical essay or research paper following MLA guidelines. Focus will include preparation for the state assessment tests and college entrance exams by practicing short answer responses and essays. Students will also write resumes and college level essays to prepare for their senior year. Special emphasis is placed on the subject matter found in the TEKS: reading, writing, research, listening, speaking, grammatical conventions, vocabulary enrichment, and technology skills.

AP English III Semesters: 2
(APENGLAN) (PEIMS #: A3220100) Credit: 1
Grade Level: 11

Recommended Prerequisites: English II; Pre-AP English II

This course affords students an opportunity to hone their writing and reading skills. In the course, students will analyze and interpret samples of good writing, identify and explain an author's use of rhetorical strategies and techniques, apply effective strategies and techniques in their own writing, understand how to write with a purpose, and be able to conduct independent research using a variety of primary and secondary sources. This course prepares students to take the AP English Language exam and it is highly recommended students take the AP exam. Students will complete a project and/or assessment over required summer reading novels.

English III (Dual Enrollment) Semesters: 2
(ENG 3) (PEIMS #: 03220300) Credit: 1
Grade Level: 11 Dual at HHS & HHSS
Recommended Prerequisite: English II; Students must submit a separate TSC application and other required documents. TSI met in reading and writing or equivalent.
Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis. Intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions.

English IV Semesters: 2
(ENG 4) (PEIMS #: 03220400) Credit: 1
Grade Level: 12
Recommended Prerequisites: English III
In English IV, students are expected to write in a variety of forms, including business, personal, literary, and persuasive texts. English IV students read extensively in multiple genres from British literature and other world literature. Students will interpret the possible influences of the historical context on a literary work from various periods of British literature. The class focuses upon oral and written analysis of British literature with a documented critical essay or research paper/project following MLA guidelines. Students will utilize technology to research, edit, publish, and create PowerPoint presentations. Students will complete a project over required summer reading novels.

AP English IV Semesters: 2
(APENGLIT) (PEIMS #: A3220200) Credit: 1
Grade Level: 12
Recommended Prerequisites: English III; AP English III highly recommended
This course provides students an opportunity to engage in the careful reading and critical analysis of imaginative literature. Students will deepen their understandings of the ways writers use language to provide both meaning and pleasure for their readers. The course will include intensive study of representative works from various genres and periods. Writing experiences in this course may involve writing response and reaction papers along with annotation, free writing, and keeping some for m of a reading journal. Writing assignments will focus on the critical analysis of literature and will include expository, analytical, and argumentative essays. This course prepares students to take the AP Literature exam. It is highly recommended students take the AP exam. Students will complete a project and/or assessment over required summer reading novels.

English IV (Dual Enrollment) Semesters: 2
(ENG 4) (PEIMS #: 03220400) Credit: 1
Grade Level: 12 Dual at HHS & HHSS
Prerequisites: English III (Dual enrollment) Students must submit a separate TSC application and other required documents. TSI met in reading and writing or equivalent.
This course will cover the development of British Literature from the Anglo-Saxon period to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

English Electives

Creative Writing Semesters: 1-2
(CREAT WR) (PEIMS #: 03221200) Credit: ½ - 1
Grade Level: 9-12
Prerequisite: None
This course will provide a continuation for the practical writing course. Opportunities will be provided to produce a variety of writing genres and styles.

Practical Writing Skills Semester: 1
(PRACT WR) (PEIMS #: 03221300) Credit: ½
Grade Level: 9-12
Prerequisite: None
This course emphasizes written English skills including conventions, mechanics, and grammar. Writing instruction will focus on the requirements of state assessments.

Public Speaking I Semesters: 2
(PUBSPKG1) (PEIMS #: 03240900) Credit: 1
Grade Level: 9-12
Prerequisite: None
This course will provide students with the concepts and skills related to preparing and presenting public messages and to analyzing and evaluating the messages of others. Within this process, students will gain skills in reading, writing, speaking, listening and thinking and will examine areas such as invention, organization, style, memory, and delivery.

Public Speaking I (Dual Enrollment) Semester: 1
(PUBSPKG1) (PEIMS #: 03240900) Credit: ½
Grade Level: 9-12
Prerequisite: Students must submit a separate TSC application and other required documents. TSI met in reading and writing or equivalent.
Application of communication theory and practice to the public speaking context, with emphasis on audience analysis, speaker delivery, ethics of communication, cultural diversity, and speech organizational techniques to develop students' speaking abilities, as well as ability to effectively evaluate oral presentations.

Reading Improvement I, II, III Semesters: 1-2
(READ 1) (PEIMS #: 03270700) Credit: ½ - 1
(READ 2) (PEIMS #: 03270800)
(READ 3) (PEIMS #: 03270900)
Grade Level: 9-12
Prerequisite: None
Offers students instruction in word recognition and comprehension strategies and vocabulary to ensure that high school students have an opportunity to read with competence, confidence, and understanding. Students are given opportunities to locate information in varied sources, to read critically, to evaluate sources, and to draw supportable conclusions. Each student will be expected to participate in the Read Right program. Read Right is a unique approach to teaching reading that enables students to improve their reading skills in a relatively brief amount of time. The Read Right system of instruction integrates knowledge from brain research, learning theory, and reading theory, which are consistently successful in permanently eliminating reading problems.

Journalism Advanced: Newspaper I Semesters: 2
(NP1) (PEIMS #: 03230140) Credit: 1
Grade Level: 9-12
Prerequisite: Keyboarding Preferred
Journalism is an introductory course in writing, editing, designing, and composing periodicals using desktop publishing. The history of American journalism is also included. Students serve as staff on the school publications. Students will begin learning aspects of desktop publishing and basic layout and design of newspapers.

Advanced Journalism Yearbook I Semesters: 2
(YBK1) (PEIMS #: 03230110) Credit: 1
Grade Level: 9-12
Prerequisite: Strong English Background
Yearbook Production 1 is an advanced journalism course whose students serve as staff for the yearbook. A moderate level of expertise in desktop publishing is achieved.

Literary Genres Semesters: 1-2
(LIT GENR) (PEIMS #: 03221500) Credit: ½ - 1
Grade Level: 9-12
Prerequisite: None
Students enrolled in Literary Genres will spend time analyzing the fictional and poetic elements of literary texts and read to appreciate the writer's craft. High school students will discover how well written literary text can serve as models for their own writing. High school students respond to texts through such varied avenues as talk, print, and electronic formats to connect their knowledge of the world with the text being read.

Oral Interpretation I Semesters: 1-2
(ORALINT1) (PEIMS #: 03240200) Credit: ½ - 1
Grade Level: 9-12
Prerequisite: None
Oral interpretation shall include opportunities for the student to study different literary works on emotional, analytical, and intellectual levels. Students will select a literary work for performance for class and UIL, TFA, and NFL competitions.

Debate I Semester: 1-2
(DEBATE1) (PEIMS #: 03240600) Credit: ½ - 1
Grade Level: 9-12
Prerequisite: None
This course is designed for students who want to excel in argumentation and debate, research skills, and oral communication. The student will write cases for various topics and compete at local, state, and national tournaments.

Bible Literacy (Independent Study in English) Semesters: 1-2
(HSNTENG) (PEIMS #: 03221850) Credit: ½ - 1
Grade Level: 9-12
Prerequisite: None
Students may take this course with different course content for a maximum of two credits.
Bible Literacy teaches students knowledge of biblical content, characters, poetry, and narratives that are prerequisites to understanding contemporary society and culture, including literature, art, music, mores, oratory, and public policy. In addition, this course will familiarize students with, as applicable, the contents of the Hebrew Scriptures or New Testament, the history of the Hebrew Scriptures or New Testament; the literacy style and structure of the Hebrew Scriptures or New Testament; and the influence of the Hebrew Scriptures or New Testament on law, history, government, literature, art, music, customs, morals, values, and culture.

Decathlon I, II, III
(DECATH) (PEIMS #: 84000001)
Grade Level: 10-12
Semesters: 2
Credit: Awarded in the appropriate content course
Prerequisite: Visit with sponsor if interested
This course is designed to provide students the opportunity to do guided research on the areas of science, mathematics, economics, social studies, language and literature, fine arts, speech and interview techniques, essay writing, and Super Quiz. The specific topics in each area will coincide with those specified by the United States Academic Decathlon Association.

Photo Journalism
(PHOTJOUR) (PEIMS #: 03230800)
Grade Level: 10-12
Semester: 1
Credit: ½
Prerequisite: None
In this course, digital photography for journalistic purposes is studied. Students will plan digital photographs in relation to assignments from the instructor, will illustrate events with appropriate photos and captions, and will sequence photos. They will learn to operate digital cameras as well as upload to computers and save digital images. In addition, students will apply journalistic principles of writing lead-ins and captions and will crop and scale digital images on computers during their study of photocomposition.

College Readiness and Study Skills (SAT Prep/College Awareness)
(CRSS) (PEIMS #: 03270100)
Grade Level: 10-12
Semester: 1
Credit: ½
Prerequisite: Reading on Grade Level
High school students that require or request additional honing of the study skills, especially as the students prepare for the demands of college, may enroll in the one semester course College Readiness and Study Skills. In this course, students acquire techniques for learning from texts, including studying word meanings, identifying and relating key ideas, drawing and supporting inferences, and reviewing study strategies. In all cases, interpretations and understandings will be presented through varying forms, including through use of available technology. Students accomplish many of the objectives through wide reading as well as use of content texts in preparation for post-secondary schooling.

Oral Interpretation II, III
(ORALINT2) (PEIMS #: 03240300)
(ORALINT3) (PEIMS #: 03240400)
Grade Level: 10-12
Semesters: 1-2
Credit: ½ - 1
Prerequisite: Oral Interpretation I
Oral interpretation shall include opportunities for the student to study different literary works on emotional, analytical, and intellectual levels. Students will select a literary work for performance for class and UIL, TFA, and NFL competitions.

College Transition
(CLGTRN) (PEIMS #N1290050)
Grade Level: 10-12
Semesters: 1-2
Credit: ½ - 1
Prerequisite: None
College Transition is a high school course designed to equip students with the knowledge, skills and abilities necessary to be active and successful learners both in high school and in college. Students examine numerous research-based learning strategies that are proven to lead to academic success such as goal-setting, effective time management, handling stress, note-taking, active reading, test-taking strategies, and conducting research.

Debate II, III Semester: 1
(DEBATE2) (PEIMS #: 03240700) Credit: ½ - 1
(DEBATE3) (PEIMS #: 03240800)
Grade Level: 10-12
Prerequisite: Debate I
This course is designed for students who want to excel in argumentation and debate, research skills, and oral communication. The student will write cases for various topics and compete at local, state, and national tournaments.

Honors Independent Study in English Semesters: 1-2
(IND ENG) (PEIMS #: 03221800) Credit: ½ - 1
Grade Level: 11-12
Prerequisite: None
This course is designed to provide opportunities to do one or more of the following: research, original work, or advanced study in a specific area of interest. In order for the student to get one advanced measure for the Distinguished Achievement Program, the student must plan, research, and compose an original project which meets all the necessary criteria. The course will require work outside the school day.

Independent Study in Speech Semesters: 1-2
(IND SPCH) (PEIMS #: 03241200) Credit: ½ - 1
Grade Level: 11-12
Prerequisite: None
This course is designed to provide students with the opportunity to work independently in a specific area of speech communications. Teacher guidance and direction will be provided, but students must possess the self-discipline necessary to successfully accomplish goals in this class. Students will have the opportunity to pursue interests and develop skills in informative speech, persuasive speech, parliamentary procedure, argumentation and debate, and oral interpretation of literature. The student will plan, research, rehearse, and produce an original production that can be used at state and national level competition in a specific area of communication. If approved, this project may count as one advanced measure for DAP.

Humanities Semesters: 1-2
(HUMANIT) (PEIMS #: 03221600) Credit: ½ - 1
Grade Level: 11-12
Prerequisite: English III
Humanities is an interdisciplinary course in which students recognize writing as an art form. Students read widely to understand how various authors craft compositions for various aesthetic purposes. This course includes the study of major historical and cultural movements and their relationship to literature and the other fine arts. Humanities is a rigorous course of study in which high school students respond to aesthetic elements in texts and other art forms through outlets such as discussions, journals, oral interpretations, and dramatizations.

Advanced Journalism Yearbook II Semesters: 2
(YBK2) (PEIMS #: 03230120) Credit: 1
Grade Level: 11-12
Prerequisite: Strong English Background
Yearbook 2 students were on the yearbook staff the previous year. An in-depth level of expertise in desktop publishing is achieved. Students are editors, managers, and division heads.

Advanced Journalism Yearbook III Semesters: 2
(YBK3) (PEIMS #: 03230130) Credit: 1
Grade Level: 11-12
Prerequisite: Strong English Background
Yearbook 3 students were on the yearbook staff the previous year. An in-depth level of expertise in desktop publishing is achieved. Students are editors, managers, and division heads.

Journalism – Independent Study Semesters: 1-2
(IND JOUR) (PEIMS #: 03231000) Credit: ½ - 1
Grade Level: 11-12
Prerequisite: Strong English Background
Students will work independently on a major, pre-approved publication project. Students enrolled in the course are to plan, draft, and refine their journalistic skills. Grading will be by contract. Enrollment is selective and generally limited to editors and assistant editors, only.

Journalism Advanced: Newspaper II Semesters: 2
(NP2) (PEIMS #: 03230150) Credit: 1
Grade Level: 11-12
Prerequisite: Newspaper I
Newspaper Production II is the second year for staff members serving as editors and managers of the student newspaper. Students will achieve a high level of expertise in desktop publishing, digital photography, and photo/art manipulation.

Journalism Advanced: Newspaper III Semesters: 2
(NP3) (PEIMS #: 03230160) Credit: 1
Grade Level: 11-12
Prerequisites: Newspaper I and II
Newspaper Production III is the third year for staff members serving as editors and managers of the student newspaper. Students will achieve a high level of expertise in desktop publishing, digital photography, and photo/art manipulation.

Research Technical Writing Semester: 1
(TECH WR) (PEIMS #: 03221100) Credit: ½
Grade Level: 11-12
Prerequisite: None
This course is designed to provide students the opportunity to do guided research in the areas of science, mathematics, economics, social studies, language and literature, fine arts, speech and interview techniques, essay writing and Super Quiz. The specific topics in each area will coincide with those specified by the United States Academic Decathlon Association.

College Preparatory Course: English Language Arts Semester: 2
(CPELA) (PEIMS #:CP110100) Credit: 1
Grade Level: 12
Prerequisites: English III and have passed English I and English II EOC
This course will prepare students for the type of reading, inquiry and writing they will be doing at the college level. Students will work with different types of text, learning situations and writing choices concerning message, audience and form. Emphasis will be placed on reading, research and writing and adapting those skills from high school to the college classroom. An overall grade of 70 or higher indicates the student is prepared for any entry level college English course at the RGV-IHE's without further assessment or remediation.

College and Career Readiness I (LOCALLY DEVELOPED)
(TSI Prep-ELA/College & Career Awareness) Semesters: 1-2
Grade Level: 10-12 Credit: 0
High school students that require or request additional honing of skills for college and career readiness. In this course students acquire techniques for literary analysis, comphrending textual information, making inferences, identifying author's use of language, and using rhetorical effectiveness and evidence in essay writing. The structure of the course follows the objectives for the Texas Success Initiative Assessment and College and Career Readiness.

English for Speakers of Other Languages (ESOL)

English I for ESOL Semesters: 2
(ENG 1 SOL) (PEIMS #: 03200600) Credit: 1
Grade Level: 9
Prerequisite: Placement as per LPAC
The student will be provided opportunities to study reflective writing skills, as well as multiple literary genres such as short stories, nonfiction, poems, plays, and mythology. Appropriate advanced reading and daily language skills will also be covered. Special emphasis is placed on the ongoing development of the correct use of grammar and vocabulary enrichment to prepare the student for state assessments. This course will be issued an English I credit.

English II for ESOL Semesters: 2
(ENG 2 SOL) (PEIMS #: 03200700) Credit: 1
Grade Level: 10
Prerequisite: English I for ESOL
This class will continue to improve students' communication and writing skills. Students will plan, draft, and produce a variety of forms of writing with emphasis placed on reflective writing and literary responses. Students will learn literary forms and literary terms as they apply to a multiple genre study of world literature. Students will review and practice state assessment objectives. This course will be issued an English II credit.

English Language Development and Acquisition Semesters: 2
(ELDA1) (PEIMS #: 03200800) Credit: 1
Grade Level: 9-12
Prerequisite: Placement as per LPAC
This course is designed as a system of intensive language support for students with limited knowledge of English. Sociolinguistic strategies will be utilized to help students with the acculturation of English as they endeavor to develop their listening, speaking, reading, and writing skills. The key concepts are a focus on academic language and conversational English development, as well as the development of the foundations of the English language through oral and written conventions, grammar, writing, and reading.

English Language Development and Acquisition Semesters: 2
(ELDA2) (PEIMS #: 03200810) Credit: 1
Grade Level: 9-12
Prerequisite: Placement as per LPAC
This course is designed as a system of intensive language support for students with limited knowledge of English. Sociolinguistic strategies will be utilized to help students with the acculturation of English as they endeavor to develop their listening, speaking, reading, and writing skills. The key concepts are a focus on academic language and conversational English development, as well as the development of the foundations of the English language through oral and written conventions, grammar, writing, and reading.

Public Speaking I (Dual Enrollment) Semester: 1
(PUBSPKG1) (PEIMS #: 03240900) Credit: ½
Grade Level: 9-12
Prerequisite: Students must submit a separate TSC application and other required documents. TSI met in reading and writing or equivalent.
Application of communication theory and practice to the public speaking context, with emphasis on audience analysis, speaker delivery, ethics of communication, cultural diversity, and speech organizational techniques to develop students' speaking abilities, as well as ability to effectively evaluate oral presentations.

Reading for Speakers of Other Languages I Semesters: 1-2
(READ 1) (PEIMS #: 03270700) Credit: ½ - 1
Grade Level: 9-12
Prerequisite: Placement as per LPAC
This course is designed to provide opportunities for students with no English reading skills to develop reading competencies in the English language.

Reading for Speakers of Other Languages II Semesters: 1-2
(READ 2) (PEIMS #: 03270800) Credit: ½ - 1
Grade Level: 10-12
Prerequisite: Placement as per LPAC
This course is designed to provide opportunities for students with limited English reading skills to develop reading competencies in the English language.

Mathematics

Algebra I Semesters: 2
(ALG 1) (PEIMS #: 03100500) Credit: 1
Grade Level: 9-12
Prerequisite: None
Students continue to build on the essential foundations in Grades K-8 as they expand their understanding through other mathematical experiences. The course provides the students with a better understanding of algebraic thinking and symbolic reasoning, function concepts, relationship between equations and functions, tools for algebraic thinking, and underlying mathematical processes. The key concepts for the course include foundations for functions, linear functions, and quadratic and other nonlinear functions. A state assessment (STAAR EOC) is required for graduation.

Pre-AP Algebra I Semesters: 2
(ALG 1) (PEIMS #: 03100500) Credit: 1
Grade Level: 9-12
Prerequisite: None
Students continue to build on the essential foundations in Grades K-8 as they expand their understanding through other mathematical experiences. The course provides the students with a better understanding of algebraic thinking and symbolic reasoning, function concepts, relationship between equations and functions, tools for algebraic thinking, and underlying mathematical processes. The key concepts for the course include foundations for functions, linear functions, and quadratic and other nonlinear functions. A state assessment (STAAR EOC) is required for graduation.

Geometry Semesters: 2
(GEOM) (PEIMS #: 03100700) Credit: 1
Grade Level: 9-12
Prerequisite: Algebra I
Students will continue to build on the essential foundations in Grades K-8 as they expand their understanding through other mathematical experiences. The course provides the students with a better understanding of Euclidean and Non-Euclidean geometric thinking and spatial reasoning, geometric figures and their properties, the relationship between geometry, other mathematics, and other disciplines, tools for geometric thinking, and underlying mathematical processes. The key concepts for the course include geometric structure, geometric patterns, dimensionality and the geometry of location, congruence and the geometry of size, and similarity and the geometry of shape.

Pre-AP Geometry with Statistics Semesters: 2
(GEOM) (PEIMS #: 03100700) Credit: 1
Grade Level: 9-12
Prerequisite: Algebra I
This course is designed to provide students with a meaningful conceptual bridge between algebra and geometry to deepen their understanding of mathematics. In this course, students are expected to use the mathematical knowledge and skills they have developed previously to problem solve across the domains of algebra, geometry, and statistics. These areas of focus are vertically aligned to the mathematical practices embedded in other mathematics courses, AP Calculus Mathematical Practices, and AP Statistics Course skills.

Math Models with Applications Semesters: 2
(MTH MOD) (PEIMS #: 03102400) Credit: 1
Grade Level: 9-12
Prerequisite: Algebra I
Students continue to build on the K-8 and Algebra I foundations as they expand their understanding through other mathematical experiences. Students use algebraic, graphical, and geometric reasoning to recognize patterns and structure, to model information, and to solve problems from various disciplines. Students use mathematical methods to model and solve real-life applied problems involving money, data, chance, patterns, music, design, and science. Students use mathematical models from algebra, geometry, probability, and statistics and connections among these to solve problems from a wide variety of advanced applications in both mathematical and non-mathematical situations. Students use a variety of representations (concrete, pictorial, numerical, symbolic, graphical, and verbal), tools and technology (including, but not limited to, calculators with graphing capabilities, data collection devices, and computers) to link modeling techniques and purely mathematical concepts and to solve applied problems.

Algebra II Semesters: 2
(ALG 2) (PEIMS #: 03100600) Credit: 1
Grade Level: 10-12
Prerequisite: Algebra I
Students will continue to build on the essential foundations in Grades K-8 as they expand their understanding through other mathematical experiences. The course provides the students with a better understanding of algebraic thinking and symbolic reasoning, functions, equations, and their relationship, relationship between algebra and geometry, tools for algebraic thinking, and underlying mathematical processes. The key concepts for the course include foundations for functions (including matrices), algebra and geometry (including conic sections), quadratic and square root functions, rational functions, and exponential and logarithmic functions. Needed for Distinguished Level of Achievement.

Pre-AP Algebra II Semesters: 2
(ALG 2) (PEIMS #: 03100600) Credit: 1
Grade Level: 10-12
Prerequisite: Algebra I
Students will continue to build on the essential foundations in Grades K-8 as they expand their understanding through other mathematical experiences. The course provides the students with a better understanding of algebraic thinking and symbolic reasoning, functions, equations, and their relationship, relationship between algebra and geometry, tools for algebraic thinking, and underlying mathematical processes. The key concepts for the course include foundations for functions (including matrices), algebra and geometry (including conic sections), quadratic and square root functions, rational functions, and exponential and logarithmic functions. The course will require work outside the school day. Needed for Distinguished Level of Achievement.

Algebra II (Dual Enrollment) Semesters: 2
(ALG 2) (PEIMS #: 03100600) Credit: 1
Grade Level: 10-12 Dual at HHS, HHSS & ECHS
Prerequisite: Algebra I; Students must submit a separate TSC application and other required documents. TSI met in reading and writing or equivalent.
This course is an in-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. Needed for Distinguished Level of Achievement.

Pre-Calculus Semesters: 2
(PRECALC) (PEIMS #: 03101100) Credit: 1
Grade Level: 10-12
Prerequisite: Algebra I, Geometry, and Algebra II
Students continue to build on the K-8, Algebra I, Algebra II, and Geometry foundations as they expand their understanding through other mathematical experiences. The student defines functions, describes characteristics of functions, and translates among verbal, numerical, graphical, and symbolic representations of functions, including polynomial, rational, power (including radical), exponential, logarithmic, trigonometric, and piecewise-defined functions. The student interprets the meaning of the symbolic representations of functions and operations on functions to solve meaningful problems. The student uses functions and their properties, tools and technology, to model and solve meaningful problems. The student uses sequences and series as well as tools and technology to represent, analyze, and solve real-life problems. The student uses conic sections, their properties, and parametric representations, as well as tools and technology, to model physical situations. The student uses vectors to model physical situations. Other topics include Parametric Equations describing Projectile Motion, Conics, and Introductions to Calculus. *If student is eligible, this course may be taken on a pass/fail basis.*

AP Pre-Calculus Semesters: 2
(PRECALC) (PEIMS #: 03101100) Credit: 1
Grade Level: 10-12
Prerequisite: Algebra I, Geometry, and Algebra II
This is an accelerated course that requires students to think at a higher level than the Pre-Calculus study described above and will also include trigonometric topics. Projects maybe required. The course will require work outside the school day. This course prepares the student to take the Advanced Placement exam and it is highly recommended students take the AP exam.. *If student is eligible, this course may be taken on a pass/fail basis.* Other topics include Polar functions, Conics, and Introductions to Calculus. *If student is eligible, this course may be taken on a pass/fail basis.*

Pre-Calculus (Dual Enrollment) Semesters: 2
(PRECALC) (PEIMS #: 03101100) Credit: 1
Grade Level: 10-12 Dual at HHS & HHSS
Prerequisite: Algebra I, Geometry, and Algebra II (Dual Enrollment). Students must submit a separate TSC application and other required documents. TSI met in reading and writing or equivalent.
In this course, students will receive an in depth study of algebra, trigonometry and other topics for calculus readiness.

AP Statistics Semesters: 2
(APSTATS) (PEIMS #: A3100200) Credit: 1
Grade Level: 11-12
Recommended Prerequisites: Algebra I, Algebra II, Geometry
This AP Course is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, planning a study, understanding probability theory, and acquiring critical inferential reasoning skills. This course prepares the student to take the Advanced Placement exam and it is highly recommended students take the AP exam. *If student is eligible, this course may be taken on a pass/fail basis.*

AP Computer Science Principles Semesters: 2
(APCSPRIN) (PEIMS #: A3580300) Credit: 1
Grade Level: 10-12
Prerequisites: Algebra I
In this course, students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course engages students in the creative aspects of the computer science field by allowing them to develop computational artifacts based on their interests. Students will also develop effective communication and collaboration skills by working individually and collaboratively to solve problems. , and will discuss and write about the impacts these solutions could have on their community, society, and the world. This course prepares the student to take the Advanced Placement (AP) exam, and it is highly recommended student take the exam.

AP Calculus AB Semesters: 2
(APCALCAB) (PEIMS #: A3100101) Credit: 1
Grade Level: 11-12
Prerequisites: Pre-Calculus or Pre-AP Pre-Calculus
This course will develop a student's understanding of the concepts of calculus and provide experience with its methods and applications in the study of elementary functions; limit of a function; derivative; integral and techniques of integration; and applications of calculus to real-world problems in the fields of life science, business and economics, social science, physics, and engineering. This course prepares the student to take the Advanced Placement exam and it is highly recommended students take the AP exam. *If student is eligible, this course may be taken on a pass/fail basis.*

AP Calculus AB (Dual Enrollment) Semesters: 2
(APCALAB) (PEIMS #: A3100101) Credit: 1
Grade Level: 11-12 Dual at HHS
Prerequisites: Algebra I, Geometry, Algebra II (dual enrollment), Pre-Calculus (dual enrollment). Students must submit a separate TSC application and other required documents. TSI met in reading and writing or equivalent.
This course covers limits and continuity; the Fundamental Theorem of Calculus; definition of the derivative of a function and techniques of differentiation; applications of the derivative to maximizing or minimizing a function; the chain rule, mean value theorem, and rate of change problems; curve sketching; definite and indefinite integration of algebraic, trigonometric, and transcendental functions, with an application to calculation of areas.

AP Calculus BC Semesters: 2
(APCALCAB) (PEIMS #: A3100102) Credit: 1
Grade Level: 11-12
Recommended Prerequisites: Pre-Calculus; Honors Pre-Calculus highly recommended
Calculus BC is an extension of Calculus AB covering all the topics in Calculus AB, but more extensively. The course will also cover the additional topics of vector functions, polar coordinates, and convergent power series. This course prepares the student to take the Advanced Placement exam and it is highly recommended students take the AP exam. *If student is eligible, this course may be taken on a pass/fail basis.*

Advanced Quantitative Reasoning Semesters: 2
(ADQUANR) (PEIMS #: 03102510) Credit: 1
Grade Level: 11-12
Recommended Prerequisite: Algebra I, Algebra II, Geometry

Students continue to build upon the K-8, Algebra I, Algebra II, and Geometry foundations as they expand their understanding through further mathematical experiences. Advanced Quantitative Reasoning includes the analysis of information using statistical methods and probability, modeling change and mathematical relationships, and spatial and geometric modeling for mathematical reasoning. Students learn to become critical consumers of real-world quantitative data, knowledgeable problem solvers who use logical reasoning, and mathematical thinkers who can use their quantitative skills to solve authentic problems. Students develop critical skills for success in college and careers, including investigation, research, collaboration, and both written and oral communication of their work, as they solve problems in many types of applied situations. *If student is eligible, this course may be taken on a pass/fail basis.*

AP Computer Science A Semesters: 2
(APTACSA) (PEIMS #: A3580100) Credits: 2
Grade Level: 11-12
Prerequisites: Algebra II; Pre-AP Algebra II (College Algebra) highly recommended.
AP Computer Science is designed to serve as an introductory course for computer science majors and as a course for students who major in other areas but want to be technologically informed. It emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development. It includes the study of data structures, design, and abstraction and the study of managing and processing information. The emphasis is on solving real world problems by means of computer programming using the Java programming language. Some topics covered include object-oriented techniques, file management, data structures, classes, objects, graphics, debugging, hardware components, and social implications. This course prepares the student to take the Advanced Placement (AP) exam, and it is highly recommended student take the AP exam. *If student is eligible, this course may be taken on a pass/fail basis.*

Mathematics for Medical Professionals Semesters: 2
(MTHMEDPR) (PEIMS #:13020970) Credit: 1
Grade Level: 11-12
Recommended Prerequisites: Geometry and Algebra II
The Mathematics for Medical Professionals course is designed to serve as the driving force behind the Texas essential knowledge and skills for mathematics, guided by the college and career readiness standards. By embedding statistics, probability, and finance, while focusing on fluency and solid understanding in medical mathematics, students will extend and apply mathematical skills necessary for health science professions. Course content consists primarily of high school level mathematics concepts and their applications to health science professions. This course is an elective only for the Harlingen School of Health Professions.

Mathematics Electives

State Assessment Prep-Math (LOCALLY DEVELOPED) Semesters: 1-2
Grade Level: 10-12 Credit: 0
This is a preparatory class for the State Assessment Test. The objectives of the class will be implemented based on individual student needs and will reflect the State Assessment Math objectives.

Digital Electronics (PLTW) Semesters: 2
(DE) (PEIMS #: 13037600) Credit: 1
Grade Level: 11
Recommended Prerequisite: Algebra I
Digital Electronics is a project-based course that introduces students to applied digital logic, a key element of careers in engineering and engineering technology. The objective of this course is to use a hands- on approach to introduce basic concepts on electronics by soldering circuits, bread boarding circuits, troubleshooting, and by using industry standards computer software in testing and analyzing digital circuitry. Students use mathematics and science in solving real-world engineering problems. This class may count as a third mathematics credit for the Foundation HSP.

Independent Study in Mathematics Semesters: 1-2
(INSTUMTH) (PEIMS #: 03102500) Credit: ½ - 1
Grade Level: 11-12
Recommended Prerequisites: Algebra II and Geometry

Students may repeat this course with a different content for a second credit. Students will extend their mathematical understanding beyond the Algebra II level in a specific area of mathematics or areas of mathematics, such as theory of equations, number theory, non-Euclidean geometry, advanced survey of mathematics or a history of mathematics. The requirements for each course must be approved by the school district before the course begins. If this course is being used to satisfy requirements for the Distinguished Achievement Program., Student research/products must be presented before a panel of professionals or approved by the student's mentor. *If student is eligible, this course may be taken on a pass/fail basis.*

College Preparatory Course: Mathematics Semesters: 2
(CPMAT) (PEIMS #: CP111200) Credit: 1
Grade Level: 12
Prerequisites: Algebra 1 and Geometry credit and passing standard on the Algebra 1 EOC
This course is intended to build the foundation for the study of College Algebra and other entry level Mathematics courses. Students will work with Topics including real numbers, rules of exponents, polynomials, factoring, linear equations, linear inequalities, graphing linear equations and inequalities, and rational expressions. Also, topics including factoring techniques, radicals, algebraic functions, complex numbers, graphing linear equations and inequalities, quadratic equations, system of equations, graphing quadratic equations and an introduction to functions. Emphasis is placed on algebraic techniques in order to successfully complete College Algebra. An overall grade of 70 indicates the student is prepared for any entry level college mathematics course at the RGV-IHEs without further assessment or remediation.

College and Career Readiness II (LOCALLY DEVELOPED)
(TSI Prep-Math/College & Career Awareness) Semesters: 1-2
Grade Level: 10-12 Credit: 0
High school students that require or request additional honing of skills for college and career readiness. In this course students acquire knowledge of linear, quadratic, and polynomial equations, expressions, systems, applications of word problems, geometry, data analysis, statistics, and probability. The structure of the course follows the objectives for the Texas Success Initiative Assessment and College and Career Readiness.

College Readiness and Study Skills II (LOCALLY DEVELOPED)
(SAT Prep-Math/College Awareness) Semesters: 1-2
Grade Level: 10-12 Credit: 0
High school students that require or request additional honing of skills, especially as the students prepare for the demands of college, may enroll in the one semester course College Readiness and Study Skills II. This course will enhance student preparedness for the SAT Exam by reviewing the topics in math and applying proven test taking strategies. Students will practice SAT format questions in topics such as Algebra, Geometry, and Statistics as well as the use of technology to support learning and mastery.

Science

Pre-AP Biology Semesters: 2
(BIO) (PEIMS #: 03010200) Credit: 1
Grade Level: 8-9
Prerequisites: None
Biology is a one-credit high school course which emphasizes the integration of content with science practices. Students engage in analytical reading and writing to gain, retain, and apply scientific knowledge and to carry out scientific argumentation. Students use mathematics strategically to understand and express the quantitative aspects of biology, to record and interpret experimental data, and to solve problems as they arrive. Students go beyond labeling diagrams to creating, revising and using models to explain key patterns, interactions, and relationships in biological systems. The Pre-AP Biology course builds students' essential skills and helps to prepare them for AP Biology and AP Environmental Science. A state assessment (STAAR EOC) is required for graduation. The course will require work outside the school day.

Biology Semesters: 2
(BIO) (PEIMS #: 03010200) Credit: 1
Grade Level: 9
Prerequisites: None

Biology is a one-credit high school course, which shall include at least 40 percent laboratory investigation and fieldwork using appropriate scientific inquiry. In Biology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Biology study a variety of topics that include: structures and functions of cells and viruses; growth and development of organisms; cells, tissues, and organs; nucleic acids and genetics; biological evolution; taxonomy; metabolism and energy transfers in living organisms; living systems; homeostasis; and ecosystems and the environment. Freshman entering high school after the 2011-2012 school year will challenge the STAAR End-of-Course Biology assessment at the completion of the course. A state assessment (STAAR EOC) is required for graduation.

Integrated Physics and Chemistry Semesters: 2
(IPC) (PEIMS #: 03060201) Credit: 1
Grade Level: 10-12
Prerequisites: Biology and Algebra I
The course is not open to students that have completed Chemistry or Physics.
IPC is a one-credit high school course, which shall include at least 40 percent laboratory and fieldwork. In Integrated Physics and Chemistry, students conduct laboratory and field investigations, use scientific methods during investigation, and make informed decisions using critical thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry in the following topics: force, motion, energy, and matter.

Chemistry Semesters: 2
(CHEM) (PEIMS #: 03040000) Credit: 1
Grade Level: 10-12
Prerequisites: Biology and Algebra I
Chemistry is a one-credit high school course, which shall include at least 40 percent laboratory and fieldwork using appropriate scientific inquiry. In Chemistry, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include characteristics of matter, use of the Periodic Table, development of atomic theory and chemical bonding, chemical stoichiometry, gas laws, solution chemistry, thermochemistry, and nuclear chemistry. Students will investigate how chemistry is an integral part of our daily lives.

Pre-AP Chemistry Semesters: 2
(CHEM) (PEIMS #: 03040000) Credit: 1
Grade Level: 10-12
Prerequisites: Pre-AP Biology and Pre-AP Algebra I recommended
The Pre-AP Chemistry course emphasizes the integration of content with powerful reasoning tools that support students in analyzing the natural world around them. Students extract, synthesize, and compare complex information, often moving between texts, tables, and graphs of experimental data, and representations of motions and interactions at the molecular level. Students will demonstrate their knowledge using multiple representations that integrate conceptual understanding with the use of mathematics. Students develop and refine models to connect macroscopic observations to structure, motion, and interactions occurring at the atomic scale. This is an accelerated college preparatory course that requires students to think at higher levels. The Pre-AP Chemistry course builds students' essential skills and helps to prepare them for AP Chemistry and AP Environmental Science courses. The course uses the laboratory approach and will require work outside the school day.

AP Biology (Dual Enrollment) Semesters: 2
(APBIO) (PEIMS #: A3110200) Credit: 1
Grade Level: 11-12
Prerequisites: Pre AP Biology, Pre AP Chemistry and Honors Physics
Students must submit a separate TSC application and other required documents. TSI met in reading and writing or equivalent.
The Dual/AP Biology course is the equivalent of a one-year college introductory biology course usually taken by biology majors during their first year. The course is organized around a few underlying principles called the big ideas, which encompass core scientific principles, theories and processes governing living organisms and biological systems that will provide the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. Scientific inquiry and student-directed labs will be emphasized in this course. Fundamental principles of living organisms along with the concepts of cytology, reproduction, genetics, and scientific reasoning are included. The diversity and classification of life will also be studied with a special emphasis given to anatomy, physiology, ecology, and evolution of plants and animals.

AP Chemistry Semesters: 2
(APCHEM) (PEIMS #: A3040000) Credit: 1
Grade Level: 11-12
Prerequisites: Biology, Chemistry and Algebra II; Pre-AP Biology, Pre-AP Chemistry, and highly recommended Honors Algebra II.
This course focuses on matter and atoms, chemical and physical properties of materials, changes in atoms and transfer of electrons, reactions of molecules, laws of thermodynamics, and intermolecular attraction. Laboratory investigation is an integral part of the course. This course prepares students to take the Chemistry Advanced Placement exam and it is highly recommended students take the AP exam. *If student is eligible, this course may be taken on a pass/fail basis.*

AP Chemistry (Dual Enrollment) Semesters: 2
(APCHEM) (PEIMS #: A3040000) Credit: 1
Grade Level: 11-12 Dual at HHS South Only
Prerequisites: Biology, Chemistry and Algebra II; Pre-AP Biology, Pre-AP Chemistry, and Algebra II highly recommended. Students must submit a separate TSC application and other required documents. TSI met in reading and writing or equivalent.
This course covers fundamental principles of chemistry for majors in the sciences, health sciences, and engineering. Topics include measurements, fundamental properties of matter, states of matter, chemical reactions, chemical stoichiometry, periodicity of elemental properties, atomic structure, chemical bonding, molecular structure, solutions, properties of gases, and an introduction to thermodynamics and descriptive chemistry. This course is a study of atomic and molecular structure, chemical stoichiometry, chemical binding, states of matter, solutions and colloids, and acid-base concepts. This course covers basic laboratory experiments supporting theoretical principles presented in this course.

AP Biology Semesters: 2
(APBIO) (PEIMS #: A3010200) Credit: 1
Grade Level: 11-12
Prerequisites: Pre-AP Biology and Pre-AP Chemistry
The AP Biology course is designed to be the equivalent of a one-year college introductory biology course usually taken by biology majors during their first year. The course is organized around a few underlying principles called the big ideas, which encompass core scientific principles, theories and processes governing living organisms and biological systems that will provide the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. Scientific inquiry and student-directed labs will be emphasized in this course. *If student is eligible, this course may be taken on a pass/fail basis.*

A college board assessment (AP exam) is expected to be taken at the end of the course. The course will require work outside the school day.

Physics Semesters: 2
(PHYSICS) (PEIMS #: 03050000) Credit: 1
Grade Level: 11-12

Prerequisites: Biology, Chemistry, Algebra II, or concurrently enrolled in Algebra II

Physics is a one-credit high school course which shall include at least 40 percent investigation and fieldwork using appropriate scientific inquiry. In Physics, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: laws of motion; changes within physical systems and conservation of energy and momentum; forces; thermodynamics; characteristics and behavior of waves; and atomic, nuclear, and quantum physics. Students who successfully complete Physics will acquire factual knowledge within a conceptual framework, practice experimental design and interpretation, work collaboratively with colleagues, and develop critical thinking skills.

Honors Physics Semesters: 2
(PHYSICS) (PEIMS #: 03050000) Credit: 1
Grade Level: 11-12

Prerequisites: Biology, Chemistry, Algebra II; Pre-AP Biology, Pre-AP Chemistry, Honors Algebra II recommended or concurrently enrolled in Algebra II

This course includes topics in both classical and modern physics. Knowledge of Algebra and basic Trigonometry is required for the course: the basic ideas of calculus may be introduced in connection with physical concepts such as acceleration and work. In Physics, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: laws of motion; changes within physical systems and conservation of energy and momentum; forces; thermodynamics; characteristics and behavior of waves; and atomic, nuclear, and quantum physics. Students who successfully complete Physics will acquire factual knowledge within a conceptual framework, practice experimental design and interpretation, work collaboratively with colleagues, and develop critical thinking skills. This is an accelerated college preparatory course that requires students to think at high levels. The course uses the laboratory approach and will require work outside the school day.

AP Physics 1 Semesters: 2
(APPHYS1) (PEIMS #: A3050003) Credit: 1
Grade Level: 11-12

Prerequisites: Pre-AP Chemistry, or concurrently enrolled in Honors Algebra II

AP Physics 1 course is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It will also introduce electric circuits. Emphasis on application and science practices is empathized and is a critical portion of the course. This course prepares students to take the Advanced Placement Physics 1 exam and it is highly recommended students take the AP exam. *If student is eligible, this course may be taken on a pass/fail basis.*

Principles of Technology Semesters: 2
(PRINTECH) (PEIMS #: 13037100) Credit: 1
Grade Level: 11-12

Prerequisites: Biology, Chemistry, and Algebra I

In Principles of Technology, 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.

AP Physics 2 Semesters: 2
(APPHYS2) (PEIMS #: A3050004) Credit: 1
Grade Level: 12

Prerequisites: AP Physics 1 required and Algebra II highly recommended

This course is the equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; atomic and nuclear physics. Emphasis on application and science practices is empathized and is a critical portion of the course. This course prepares students to take the Advanced Placement Physics 2 exam and it is highly recommended students take the AP exam. *If student is eligible, this course may be taken on a pass/fail basis.*

Science Electives

Anatomy and Physiology Semesters: 2
(ANATPHYS) (PEIMS #: 13020600) Credit: 1
Grade Level: 10-12

Prerequisites: Biology and a second Science credit

In Anatomy and Physiology, students study a variety of topics, including the structure and function of the human and anatomical systems and the interrelationships of body systems according to function. Laboratory exercises and observations are used to design to enhance student understanding of both physiological body functions and scientific theory with an emphasis towards medical applications. The course shall include at least 40% laboratory investigation, using appropriate scientific inquiry allowing students to make informed decisions using critical thinking and scientific problem solving. Students interested in pursuing medical careers are highly encouraged to take this course. *If student is eligible, this course may be taken on a pass/fail basis.*

Medical Microbiology Semesters: 2
(MICRO) (PEIMS #: 13020700) Credit: 1
Grade Level: 10-12

Prerequisites: Biology, Chemistry, and Physics

This course is a ½ credit high school science course designed to introduce students to the relationship of microorganisms to wellness and disease. Students in Medical Microbiology explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases. The course shall include at least 40 percent laboratory investigation and fieldwork, using appropriate scientific inquiry. *If student is eligible, this course may be taken on a pass/fail basis.*

Pathophysiology Semesters: 2
(PATHO) (PEIMS #: 13020800) Credit: 1
Grade Level: 10-12

Prerequisites: Biology, Chemistry, and Physics

This course is a ½ credit high school science course. In Pathophysiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology. The course shall include at least 40 percent laboratory investigation and fieldwork, using appropriate scientific inquiry. *If student is eligible, this course may be taken on a pass/fail basis.*

Anatomy and Physiology (Dual Enrollment) Semesters: 2
(ANATPHYS) (PEIMS #: 13020600) Credit: 1
Grade Level: 11

Prerequisites: Biology and a second Science credit

Students must submit a separate TSC application and other required documents. TSI met in reading and writing or equivalent.

TSI met in math, reading, and writing or equivalent.
Anatomy and Physiology is a study of the structure and function of the human body including cells, tissues and organs of the following systems: integumentary, skeletal, muscular, nervous and special senses. Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis. The lab provides a hands-on learning experience for exploration of human system components and basic physiology.

Aquatic Science Semesters: 2
(AQUASCI) (PEIMS #: 03030000) Credit: 1
Grade Level: 11-12

Prerequisites: Biology, Chemistry, and Physics, or concurrently enrolled in Physics.

In Aquatic Science, students study the interactions of biotic and abiotic components in aquatic environments, including impacts on aquatic systems. Investigations and fieldwork in this course may emphasize fresh water or marine aspects of aquatic science depending primarily upon the natural resources available for study near the school. Students who successfully complete Aquatic Science will acquire knowledge about a variety of aquatic systems, conduct investigations and observations of aquatic environments, work collaboratively with peers, and develop critical-thinking and problem-solving skills.

Engineering Design and Problem Solving Semesters: 2
(ENGDPRS) (PEIMS #: 13037300) Credit: 1
Grade Level: 11-12
Recommended Prerequisites: Geometry, Algebra II, Chemistry and Physics
Engineering design is the creative process of solving problems by identifying needs and then devising solutions. This course also reinforces and integrates skills learned in previous mathematics and science courses. It emphasizes solving problems, with real world application by applying critical-thinking skills to justify a solution from multiple design options. It is intended to stimulate students' ingenuity, intellectual talents, and practical skills in devising solutions to engineering design problems.

AP Environmental Science Semesters: 2
(APENVIR) (PEIMS #: A3020000) Credit: 1
Grade Level: 11-12
Prerequisites: Pre-AP Biology, Pre-AP Chemistry and Pre-AP Physics highly recommended
This course is the equivalent to a one semester introductory interdisciplinary college course that embraces a wide variety of topics. It will provide students with scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. This course prepares the student to take Advanced Placement Environmental Science exam and it is highly recommended students take the AP exam. *If student is eligible, this course may be taken on a pass/fail basis.*

Environmental Systems Semesters: 2
(ENVIRSYS) (PEIMS #: 03020000) Credit: 1
Grade Level: 11-12

Prerequisites: Biology, Chemistry, and Physics

Environmental Systems is a one-credit high school course. In Environmental Systems, students conduct 40% laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: biotic and abiotic factors in habitats, ecosystems and biomes, interrelationships among resources and an environmental system, sources and flow of energy through an environmental system, relationship between carrying capacity and changes in populations and ecosystems, and changes in environments.

Advanced Animal Science Semesters: 2
(ADVANSCI) (PEIMS #: 13000700) Credit: 1
Grade Level: 12
Prerequisite: Wildlife, Fisheries and Ecology Management
Students will continue their study in animal health, nutrition, reproduction and management in relation to livestock species. An emphasis will be placed on diseases, parasite, basic surgical procedures related to animal health and veterinary medicine and production of livestock. This class will count as a fourth science and will be calculated in the GPA beginning 2013-2014.

Advanced Plant and Soil Science Semesters: 2
(ADVPSSC) (PEIMS #: 13002100) Credit: 1
Grade Level: 12
Prerequisite: Horticultural Science
Place and Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has include a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. Investigations and laboratory course is designed to prepare student for careers in the food and fiber industry. Student will learn, reinforce, apply, and transfer their knowledge in a scientific setting. This class will count as a fourth science and will be calculated in the GPA beginning 2013-2014.

Astronomy Semesters: 2
(ASTRMY) (PEIMS #: 03060100) Credit: 1
Grade Level: 12
Prerequisites: None
In Astronomy, students conduct laboratory and field investigations, use scientific methods, and make informed decisions using critical thinking and scientific problem solving. Students study the following topics: astronomy in civilization, patterns and objects in the sky, our place in space, the moon, reasons for the seasons, planets, the sun, stars, galaxies, cosmology, and space exploration. Students who successfully complete Astronomy will acquire knowledge within a conceptual framework, conduct observations of the sky, work collaboratively, and develop critical-thinking skills.

Food Science Semesters: 2
(FOODSCI) (PEIMS #: 13023000) Credit: 1
Grade Level: 12
Prerequisite: Culinary Arts
Food Science is the discipline in which the engineering, biological, and physical sciences are used to study the nature of foods, the causes of deterioration, the principles underlying food processing, and the improvement of foods for the consuming public. Food Science is a highly interdisciplinary field. It incorporates concepts from many different fields including microbiology, chemical engineering, and biochemistry. Students shall be awarded one credit in science for successful completion of this course. Students must also meet the 40% laboratory and fieldwork requirement. This class will count as a fourth science and will be calculated in the GPA beginning 2013-2014.

Forensic Science Semesters: 2
(FORENSCI) (PEIMS #: 13029500) Credit: 1
Grade Level: 12
Prerequisite: Law Enforcement II
Forensics will use the 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 the terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection and scientific procedures to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime sciences such as fingerprint analysis, ballistics and blood spatter analysis. Students investigate the history, legal aspects and career options for forensic science. Skills learned in this course will be how to process a crime scene and analyze evidence. This class will count as a fourth science and will be calculated in the GPA beginning 2013-2014.

Social Studies

World Geography Studies Semesters: 2
(W GEO) (PEIMS #: 03320100) Credit: 1
Grade Level: 9
Prerequisites: None
This course provides an opportunity for the student to examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography, while describing the influence of geography on events of the past and present, emphasizing contemporary issues. A significant portion of the course centers around the physical processes that shape patterns in the physical environment; the characteristics of major landforms, climates, and ecosystems and their interrelationships; the political, economic, and social processes that shape cultural patterns of regions; types and patterns of settlement; the distribution and movement of the world population; relationships among people, places, and environments; and the concept of region.

Pre-AP World Geography Studies Semesters: 2
(W GEO) (PEIMS #: 03320100) Credit: 1
Grade Level: 9
Prerequisites: None
This course begins with the study of geography and world regions and moves to developments in world history from c.1450 CE through the present. The Early Modern, Modern and Contemporary Periods are covered. Students will seek to understand and form arguments about historical perspectives by analyzing primary and secondary sources and assessing patterns in quantitative and qualitative evidence. Students will build investigative techniques by pursuing inquiries of comparison, causation, and continuity and change over time. The Pre-AP World History and Geography course builds students' essential skills and helps to prepare them for a range of AP history and social science coursework during high school, including AP Human Geography and all three AP history courses. The course will require work outside the school day.

World History Studies Semesters: 2
(WHIST) (PEIMS #: 03340400) Credit: 1
Grade Level: 10
Prerequisites: World Geography
This course is an overview of the history of humankind, which focuses on essential concepts and skills that can be applied to various eras, events, and people. The major emphasis is on the study of significant people, events, and issues from the earliest times to the present. Traditional historical points of reference in world history are identified as students analyze important events and issues in western civilization, as well as in civilizations in other parts of the world. Students evaluate the causes and effects of political and economic imperialism and of major political revolutions since the 17th century; examine the impact of geographic factors on major historic events and identify the historic origins of contemporary economic systems; analyze the process by which constitutional governments evolved; analyze the ideas from historic documents that influenced that process; trace the historical development of important legal and political concepts; examine the history and impact of major religious and philosophical traditions; and analyze the connections between major developments in science and technology and the growth of industrial economies, while using the process of historical inquiry to research, interpret, and use multiple sources of evidence.

AP World History Studies Semesters: 2
(APWHIST) (PEIMS #: A3370100) Credit: 1
Grade Level: 10-12
Prerequisites: World Geography, Pre-AP World Geography highly recommended
This course focuses on the investigation of five course themes and six different chronological periods, from approximately 8000 B.C.E. to the present. Emphasized in the course is the development of four historical thinking skills: crafting a historical argument, chronological reasoning, comparing times and places to broad historical processes, and historical interpretation and synthesis. This course prepares the student to take the Advanced Placement World History examination and it is highly recommended students take the AP exam. *If student is eligible, this course may be taken on a pass/fail basis.*

United States History Studies Semesters: 2
(US HIST) (PEIMS #: 03340100) Credit: 1
Grade Level: 11
Prerequisites: World Geography Studies & World History Studies
This course provides an opportunity to study the history of the United States from 1877 to the present. It is based on the founding documents of the U.S. government, which provide a framework for its heritage. Historical content focuses on the political, economic, and social events and issues related to industrialization and urbanization; major wars; domestic and foreign policies; and reform movements, including civil rights. Students will describe the relationship between the arts and popular culture and the times during which they were created; analyze the impact of technological innovations on American life; and use critical-thinking skills and a variety of primary and secondary source material to explain and apply different methods that historians use to understand and interpret the past, including multiple points of view and historical context. A state assessment (STAAR EOC) is required for graduation.

United States History (Dual Enrollment) Semester:2
(US HIST) (PEIMS #:03340100) Credit: 1
Grade Level: 11
Prerequisites: World Geography Studies & World History Studies

A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the present. United States History Dual includes the study of pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, Civil War/Reconstruction, industrialization, immigration, world wars, the Great Depression, Cold War and post-Cold War eras. Themes that may be addressed in United States History Dual include: American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the creation and expansion of the federal government and the study of U.S. foreign policy. Prerequisite: TSI met in reading and writing or equivalent. Credit: 6 hours

AP U.S. History Semesters: 2
(APUSHIST) (PEIMS #: A3340100) Credit: 1
Grade Level: 11
Prerequisites: World Geography& World History; Honors/AP highly recommended
This course focuses on seven themes of U.S. History: Identity, Work, People, Politics, US and the World, Geography, and U. S. Beliefs and Culture covering these topics from 1491 to the present. This course will emphasize the development of historical thinking skills: crafting a historical argument, chronological reasoning, comparing times and places to broad historical processes, and historical interpretation and synthesis. This course prepares the student to take the Advanced Placement U.S. History examination and it is highly recommended students take the AP exam. A state assessment (STAAR EOC) is required for graduation.

United States Government Semester: 1
(GOVT) (PEIMS #: 03330100) Credit: ½
Grade Level: 12
Prerequisites: World Geography Studies, World History Studies, and U.S. History
In United States Government course, the focus is on the principles and beliefs upon which the United States was founded and on the structure, functions, and powers of government at the national, state, and local levels. Students learn major political ideas and forms of government in history. A significant focus of the course is on the U.S. Constitution, its underlying principles and ideas, and the form of government it created. Students analyze the impact of individuals, political parties, interest groups, and the media on the American political system, evaluate the importance of voluntary individual participation in a constitutional republic, and analyze the rights guaranteed by the U.S. Constitution.

AP U.S. Government & Politics Semester: 1
(APUSGOVT) (PEIMS #: A3330100) Credit: ½
Grade Level: 12
*Prerequisites: World Geography, World History, US History; Honors/AP highly recommend*ed
This course involves both the studies of general concepts used to interpret American politics and the analysis of specific examples. Topics in this course may include constitutional underpinnings, political beliefs and behaviors, political parties and interest groups, government institutions, public policy, and civil rights and liberties. This course prepares the student to take the Advanced Placement exam and it is highly recommended students take the AP exam. This course prepares the student to take the Advanced Placement Government examination. It is highly recommended students take the AP exam.

United States Government (Dual Enrollment) Semester: 1
(GOVT) (PEIMS #: 03330100) Credit: ½
Grade Level: 12 Dual at HHS Only
Prerequisites: World Geography or World History, and U.S. History. Students must submit a separate TSC application and other required documents. TSI met in reading and writing or equivalent.
This course introduces the origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights.

Economics Semester: 1
(ECO ADV) (PEIMS #: 03310301) Credit: ½
Grade Level: 12
Prerequisite: World Geography, World History, and United States History
History, development and application of macroeconomic theory underlying the production, distribution, and exchange of goods and services, utilization of resources: analysis of value and prices; national income analysis; fiscal policies; monetary and banking theory and policy. Distribution of income; labor problems; international economics; economic systems. Attention given the application of economic principles to economic problems.

AP Macroeconomics Semester: 1
(APMACECO) (PEIMS #: A3310200) Credit: ½
Grade Level: 12
Prerequisites: World Geography, World History, US History; Honors/AP highly recommended
This course is designed to give students an understanding of the principles of economics that apply to an economic system. The content will include analysis of economic concepts; measurement of economic performance, national income and price level determination, financial sector, stabilization policies, economic growth and productivity and international trade. This course prepares the student to take the Advanced Placement exam and it is highly recommended students take the AP exam.

Social Studies Electives

Bible Literacy in Social Studies Semesters: 1-2
(HSNTSS) (PEIMS #: 03380072) Credit: ½
Grade Level: 9-12
Prerequisite: None
Students may take this course with different course content for a maximum of two credits.
Bible Literacy teaches students knowledge of biblical content, characters, poetry, and narratives that are prerequisites to understanding contemporary society and culture, including literature, art, music, mores, oratory, and public policy. In addition, this course will familiarize students with, as applicable, the contents of the Hebrew Scriptures or New Testament, the history of the Hebrew Scriptures or New Testament; the literacy style and structure of the Hebrew Scriptures or New Testament; and the influence of the Hebrew Scriptures or New Testament on law, history, government, literature, art, music, customs, morals, values, and culture.

Personal Financial Literacy Semester: 1
(PFL) (PEIMS #: 03380082) Credit: ½
Grade Level: 10-12
Prerequisite: None
This course will develop citizens who have the knowledge and skills to make sound, informed financial decisions that will allow them to lead financially secure lifestyles and understand personal financial responsibility. The knowledge gained in this course has far-reaching effects for students personally as well as the economy as a whole. When citizens make wise financial decisions, they gain opportunities to invest in themselves, build businesses, consume goods and services in a responsible way, and secure a future without depending on outside assistance. The economy benefits from the optimal use of resources, increased consumption, and strong local businesses. State and local governments benefit with steady revenue streams and reduced future obligations as our society ages.

Psychology Semester: 1
(PSYCH) (PEIMS #: 03350100) Credit: ½
Grade Level: 10-12
Prerequisite: None
This course provides students an opportunity to study the science of behavior and mental processes. Students will examine the full scope of the science of psychology such as the historical framework, methodologies, human development, motivation, emotion, sensation, perception, personality development, cognition, learning, intelligence, biological foundations, mental health, and social psychology.

AP Psychology Semester: 1
(APPSYCH) (PEIMS #: A3350100) Credit: ½
Grade Level: 10-12
Prerequisite: None
The AP Psychology course is designed to be an entry-level college class and introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. This course prepares students for the AP psychology exam and students are highly encouraged to take it in May. *If student is eligible, this course may be taken on a pass/fail basis.*

Psychology (Dual Enrollment) Semester: 1
(PSYCH) (PEIMS #: 03350100) Credit: ½
Grade Level: 10-12 Dual at HHS South Only
Prerequisite: Students must submit a separate TSC application and other required documents. TSI met in reading and writing or equivalent.
Psychology is a survey of the major psychological topics, theories and approaches to the scientific study of behavior and mental processes.

Sociology Semester: 1
(SOC) (PEIMS #: 03370100) Credit: ½
Grade Level: 10-12
Prerequisite: None
This course is an introductory study in social behavior and organization of human society. This course will describe the development of the field as a social science by identifying methods and strategies of research leading to an understanding of how the individual relates to society and the ever-changing world. Students will also learn the importance and role of culture, social structure, socialization, and social change in today's society.

Special Topics in Social Studies Semester: 1
(SPTSS) (PEIMS #: 03380002) Credit: ½
Grade Level: 10-12
Prerequisite: AP U.S. History recommended
This course provides the opportunity to develop a greater understanding of the historic, political, economic, geographic, multicultural, and social forces that have shaped their lives and the world in which they live. Students will use social science knowledge and skills to engage in rational and logical analysis of complex problems using a variety of approaches, while recognizing and appreciating diverse human perspectives. General requirements. Students shall be awarded one-half unit of credit for successful completion of this course. Students may take this course with different course content for a maximum of two credits.

AP European History Semesters: 2
(APEUHIST) (PEIMS #: A3340200) Credit: 1
Grade Level: 11-12
Prerequisites: AP US History highly recommended
The course is for social studies students who demonstrate the ability and interest to study a college-level European history course. The content will include a study of the history of Europe from 1450 to the present. It introduces students to the cultural and intellectual, social and economic, political and economic history of Europe. Analytical and research skills will be used to study primary sources and scholarly works. This course prepares the student to take the Advanced Placement exam and it is highly recommended students take the AP exam. *If student is eligible, this course may be taken on a pass/fail basis.*

Social Studies Advanced Studies Semesters: 1-2
(SS ADV) (PEIMS #: 03380001) Credit: ½ - 1
Grade Level: 11-12
Prerequisite: AP U.S. History recommended
In this course, the students will conduct in-depth research, prepare a product of professional quality, and present their finding s to appropriate audiences. Students, working independently or in collaboration with a mentor, investigate a problem, issue, or concern; research the topic using a variety of technologies; and present a product of professional quality to an appropriate audience.

State Assessment Prep-US History (LOCALLY DEVELOPED) Semesters: 1-2
Grade Level: 11-12 Credit: 0
This is a state preparatory course for the state assessment test. The objectives of the class will be implemented based on individual student needs and will reflect the state assessment US History objectives.

AP Human Geography Semesters: 2
(APHUGEO) (PEIMS #: A3360100) Credit: 1
Grade Level: 12
Prerequisites: AP US History highly recommended
This course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students will also learn and apply the methods and tools geographers use in their science and practice. This course prepares the student to take the Advanced Placement examination and it is highly recommended students take the AP exam. *If student is eligible, this course may be taken on a pass/fail basis.*

Social Studies Research Methods Semester: 1
(SS RES) (PEIMS #: 03380003) Credit: ½
Grade Level: 12
Prerequisite: None
In Social Studies Research Methods course, students will conduct advanced research on a selected topic in social studies using qualitative and/or quantitative methods of inquiry. Students present their research results and conclusions in written and visual or oral format. The course is designed to be conducted in either classroom or independent settings.

Physical Education

Aerobic Activities Drill Prep Semesters: 1-2
(PEAA) (PEIMS #: PES00054) Credit: ½ - 1
Grade Level: 9 (Dr. Cano Freshman Academy Only)
Prerequisite: None
Drill Prep is designed to develop and enhance a student's ability to audition for dance drill team activities. Students will be introduced to the basics of choreography and will acquire the knowledge and skills for movement that provide the foundation for enjoyment, continued social development through physical activity, and access to a physically-active lifestyle and health-related fitness. The course serves as a credit course to satisfy physical education requirements for graduation. (Specific attire is required.)

Aerobic Activities (STAR PREP I, II, III, and IV) Semesters: 1-2
(PEAA) (PEIMS #: PES00054) Credit: ½ - 1
Grade Level: 9-12
Prerequisite: None
Star Prep I is designed to teach students an appreciation for dance as a part of their education and to prepare students for further education in the field of dance, if they so choose. Students are taught ballet and jazz technique, as well as exposed to tap, modern dance, and world dance. Furthermore, students will be introduced to dance history and the basics of choreography. The course also serves as a credit course to satisfy fine arts and/or physical education requirements for graduation. (Specific attire required)

Drill Team Semesters: 2
(SUBDT) (PEIMS #:PES00015) Credit: 1
Grade Level: 9-12
Grade Prerequisite:
Drill Team is an intense interdisciplinary program that combines performance elements such as dance, music, costume, and theatrical design with performance opportunities for small dance ensembles such as Friday night performances, spring shows and recitals.

Foundations of Personal Fitness Semester: 1
(PEFOUND) (PEIMS #: PES00052) Credit: ½
Grade Level: 9-12
Prerequisite: None
This physical education course involves both textbook and laboratory experiences and is designed for the student to understand the relationship between physical activities and nutritional practices. A review of correct biomechanical and physiological principles is included. Students must demonstrate practical application of these principles by designing their own individual training program.

Individual Sports Semesters: 1-2
(PEITS) (PEIMS #: PES00055) Credit: ½ - 1
Grade Level: 9-12
Prerequisite: Foundations of Personal Fitness
This course is designed to teach physical education habits for a total physical fitness program and to develop skills for various individual and team sports.

Individual Sports (WEIGHT and PHYSICAL TRAINING/CO ED) Semesters: 1-2
(PE WTS) (PEIMS #: PES00052) Credit: ½ - 1
Grade Level: 9-12
Prerequisite: Foundations of Personal Fitness
This course provides for a variety of activities from which each student should experience improvement in physical strength, muscular development, body coordination, body quickness and self-confidence. Through the aerobic running program, the cardio-vascular system will also be developed.

Individual Sports (TENNIS/CO-ED) Semesters: 1-2
(PE TENNIS) (PEIMS #: PES00000) Credit: ½ - 1
Grade Level: 9-12
Prerequisite: Foundations of Personal Fitness
This course is designed to familiarize the student with tennis rules and regulations to develop their basic skills.

In all individual and team competitive sports, a student is required to participate in the off-season program prior to the year wanting to compete in. All exceptions would need to be approved by the Head Coach of that particular sport.

Competitive Baseball/BOYS Semesters: 1-2
(B BASEBALL FY) (PEIMS #: PES00000) Credit: ½ - 1
Grade Level: 9-12
Prerequisites: Physical
Freshman -- None, prior baseball experience encouraged
Sophomore -- Participation as a freshman
Junior – Participation as a freshman and sophomore
Senior – Participation as a freshman, sophomore, and Junior
This course will prepare students to participate in competitive baseball interscholastically. It will cover the following areas: weightlifting, cardiovascular exercises, speed training, agility, flexibility, and team sport concepts associated with baseball. Specific baseball fundamentals and advanced baseball skills will be emphasized. Students who enroll in competitive baseball are required to attend all games and practices during the week and weekends. Students are encouraged to participate in the summer conditioning program during the months of June and July. Any exceptions must be approved by the Head Coach prior to enrolling in the class.

Competitive Basketball/BOYS and GIRLS Semesters: 1-2
(B BASKETBALL FY; G BASKETBALL FY) (PEIMS #: PES00000) Credit: ½ - 1
Grade Level: 9-12
Prerequisite: Physical
This course will prepare students to participate in competitive basketball interscholastically. It will cover all of the following areas: weightlifting for strength and endurance, cardiovascular exercises, plyometrics, speed, training, agility, flexibility, and team sport concepts. Students must be highly motivated; this class will be taught at a highly-advanced pace. Students enrolled in competitive basketball are encouraged to participate in the summer basketball league and participate during the months of June and July with our off season teams that participate in tournaments around the valley and state. All freshman are welcomed to join basketball if they participated at the middle school level. Sophomores through seniors are required to play the previous year. If a student/athlete fails consecutive progress reports, they are subject to be removed from the program. If a student/athlete misses 3 practices, they are subject to be removed from the team. Any exceptions to this requirement must be approved by the Head Coach.

Competitive Cross Country/BOYS and GIRLS Semester: 1
(B CR CTY FALL; G CR CTY FALL) (PEIMS #: SR000003) Credit: ½
Grade Level: 9-12
Prerequisite: Physical
Cross Country is a sport in which teams and individuals run a race on open-air courses over different terrain such as dirt or grass. Participants are expected to run 2-3 mile races competitively every week interscholastically. Students who participate in this class must be enrolled in the class for the fall and spring semesters and must be able to attend practices before and/or afterschool during the months of August through October. Students in the class must also commit to participating in Cross Country Meets which will be held on Saturdays. Any exceptions must be approved by the Head Coach.

Competitive Football/BOYS Semesters: 1-2
(FOOTBALL FY) (PEIMS #: PES00000) Credit: ½ - 1
Grade Level: 9-12
Prerequisite: Physical
This course will prepare students to participate in competitive football interscholastically. It will cover all of the following areas: weightlifting for strength and endurance, cardiovascular exercises, plyometrics, speed training, agility, flexibility, and team sport concepts. Students must be highly motivated; this class will be taught at a highly-advanced pace. Students enrolled in competitive football are encouraged to participate in the summer conditioning program during the months of June and July. Students are REQUIRED to attend two a day workouts beginning the first Monday in August. Any exceptions to this requirement must be approved by the Head Coach.

Competitive Golf/BOYS and GIRLS Semesters: 1-2
(COM GOLF FY) (PEIMS #: PES00000) Credit: ½ - 1
Grade Level: 9-12
Prerequisite: Physical
This course will prepare students to participate in competitive Golf inter-scholastically. It will take the Head Coaches approval to enter the class unless the student participated in the Junior High Program. The course will cover the following areas: cardiovascular exercises, weight training, agility, flexibility, and Golf Specific concepts. Specific Golf fundamentals and advanced Golf skills and strategies will be emphasized. Students who participate in this class must be enrolled in the class for the fall and spring semesters and must be able to attend practices after school every day. They must have their own golf clubs (School does not supply clubs). Students in the class must also commit to participating in tournaments on School days and Saturdays. Any exceptions must be approved by the Head Coach.

Competitive Soccer BOYS/GIRLS Semesters: 1-2
(SOCCER FY) (PEIMS #: PES00000) Credit: ½ - 1
Grade Level: 9-12 Spring Semester Only
Prerequisite: Physical, prior playing experience
This course will prepare students to participate in competitive soccer interscholastically. It will cover the following areas: weightlifting, cardiovascular exercises, speed training, agility, flexibility, and team sport concepts associated with soccer. Specific soccer fundamentals and advanced soccer skills and strategies will be emphasized. Students who participate in this class must be enrolled in the class for the fall and spring semesters and must be able to attend practices before and/or afterschool during the months of December through March. Students in the class must also commit to participating in games which are held afterschool and Saturdays. Any exceptions must be approved by the Head Coach.

Competitive Softball/GIRLS Semesters: 1-2
(SOFTB FY) (PEIMS #: PES00000) Credit: ½ - 1
Grade Level: 9-12
Prerequisite: Physical

Competitive Swimming BOYS/GIRLS Semesters: 1-2
(COMP SWIM FY) (PEIMS #: PES00000) Credit: ½ - 1
Grade Level: 9-12
Prerequisite: Physical; Middle school competitive swimming, summer swim program/age group swim program, prior varsity swimmer, or must be able to demonstrate competitive swimming skills required. The competitive swim skills required will consist of an unassisted 25 yard free swim, 25 yard backstroke, 25 yard freestyle kick, and 25 yard backstroke kick.
This is a varsity sport for grades 9 through 12. This program is a continuation of the middle school competitive swim team and is intended for swimmers advancing their competitive skills. Each swimmer will be required to submit their physical and athletic handbook forms to their high school athletic trainer for clearance prior to swimming.

Competitive Tennis BOYS/GIRLS Semesters: 1-2
(COM TENNIS; JV TEN; VAR TEN) (PEIMS #: PES00000) Credit: ½ - 1
Grade Level: 9-12
Prerequisite: Physical

Competitive Track and Field BOYS/GIRLS Semester: 1
(B TRACK SPRING; G TRACK SPRING) (PEIMS #: PES00000) Credit: ½
Grade Level: 9-12
Prerequisite: Physical

Competitive Volleyball/GIRLS Semesters: 2
(G VOLLYBL FY) (PEIMS #: PES00000) Credit: 1
Grade Level: 9-12
Prerequisite: Physical

Cheerleaders Semester: 1
(CHEERLDS FALL) (PEIMS #: PES00000) Credit: ½
Grade Level: 9-12
Prerequisite: Tryouts/Judge's selection
The following objectives are desirable during the period of time a student is enrolled in cheerleading:

- To provide unity in school through effective leadership;
- To guide the student body in school spirit and true sportsmanship;
- To project cheerleading as a position of honor, respect and hard work, worthy only of the dedicated student;
- To serve as ambassador of good will when visiting other schools; and
- To serve as hosts when other schools visit Harlingen.

Individual Sports (TEAM SPORTS/CO-ED) Semesters: 1-2
(PE-TM SP) (PEIMS #: PES00055) Credit: ½ - 1
Grade Level: 11-12
Prerequisite: Foundations of Personal Fitness
Students who enroll in these classes will rotate to different team sports each three weeks. These may include flag football, softball, soccer, volleyball, basketball and aerobics.

Individual Sports/CO-ED Semester: 1
(PE IND SPT S1; PE IND SPT S2) (PEIMS #: PES00055) Credit: ½
Grade Level: 11-12
Prerequisite: Foundations of Personal Fitness
Students who enroll in this course will rotate to different individual sports every four weeks. These may include golf, gym, bowling, fencing, outdoor recreation, archery and badminton.

Health

Health Semester: 1
(HLTH ED) (PEIMS #: 03810100) Credit: ½
Grade Level: 9-12
Prerequisite: None
In health education, students acquire the health information and skills necessary to become healthy adults and learn about behaviors in which they should and should not participate. To achieve that goal, students will understand the following: students should first seek guidance in the area of health from their parents; personal behaviors can increase or reduce health risks throughout the lifespan; health is influenced by a variety of factors; students can recognize and utilize health information and products; and personal/interpersonal skills are needed to promote individual, family, and community health. Students develop skills that will make them health-literate adults. Students gain a deeper understanding of the knowledge and behaviors they use to safeguard their health, particularly pertaining to health risks. Students are taught how to access accurate information that they can use to promote health for themselves and others. Students use problem-solving, research, goal-setting and communication skills to protect their health and that of the community. Effective with entering freshman 2011-2012, health is no longer required.

Languages Other Than English

Latin I Semesters: 2
(LATIN 1) (PEIMS #: 03440100) Credit: 1
Grade Level: 9-12
Prerequisite: None
This is a course designed to provide instructional opportunities for students with some proficiency in understanding and/or speaking Latin. The four language skills of listening, speaking, reading and writing are further developed. The culture and history of the Latin world will be studied. Students will be introduced to literary works. This course is intended for students who did not obtain one credit at the middle school level.

Latin II Semesters: 2
(LATIN 2) (PEIMS #: 03430100) Credit: 1
Grade Level: 9-12
Prerequisite: Latin I
Students in Latin II further expand their knowledge of the language and culture of the Romans. The course continues with Alexandria and Roman Britain, through which the students are introduced to the diversity of cultures that comprised the Roman Empire. It continues the reading, writing, grammar and cultural studies begun in Latin I. Emphasis is on the value of Latin as a background for the study of English and modern foreign languages. Students are expected to acquire a substantial amount of vocabulary and begin to deal with idiomatic language and more advanced syntax. In addition, a general survey of the major figures of Roman literature is presented and students begin to read both adapted and original passages from Roman authors. Students will gain an understanding of the myths of the Greeks and Romans and the relationship of these myths to themes in Western literature and civilization.

Latin III Semesters: 2
(LATIN 3) (PEIMS #: 03430300) Credit: 1
Grade Level: 9-12
Prerequisite: Latin I, Latin II
This is a course designed for students to further strengthen proficiency and appreciation in reading Latin in authentic and original texts. The increasing complexity in the Latin languages is explored and integrated in all the story lines to convey subtleties of character, motivation, and atmosphere. The reading material is based as far as possible on historical characters and situations in two different parts of the Roman empire. The interest in the dramatic events of the narrative will help maintain the pace of classroom readings. In addition, students will continue to use reading aloud and comprehension questions in both Latin and English for approaching a story and unraveling complex sentences. *This course will prepare students to succeed on the Level III of the National Latin Exam.*

Spanish I Semesters: 2
(SPAN 1) (PEIMS #: 03440100) Credit: 1
Grade Level: 9-12
Prerequisite: None
This course is designed to provide instructional growth in the Spanish language. The four skills of listening, speaking, reading and writing are further developed. Students will be introduced to literary works. Through the use of authentic resources, students explore culture, history, and daily usage of the language in various parts of the world.

Spanish II Semesters: 2
(SPAN 2) (PEIMS #: 03440200) Credit: 1
Grade Level: 9-12
Prerequisite: Spanish I
This is a course designed to facilitate and increase knowledge of the language, culture, and history through listening, speaking, reading, and writing and grammar. Students will continue to explore literary works. This course is intended to prepare students for the third year Spanish.

Spanish III Semesters: 2
(SPAN 3) (PEIMS #: 03440300) Credit: 1
Grade Level: 9-12
Prerequisite: Spanish II
This is a course designed for students to further strengthen proficiency and develop their communicative competency by interacting orally, in writing, in written messages and in presentations in the target language. They will be encouraged to communicate on a variety of topics, using complex structures and moving from concrete to more abstract concepts. This course will provide numerous opportunities for developing communication skills and cultural competency. *If student is eligible, this course may be taken on a pass/fail basis.*

Honors Spanish III Semesters: 2
(SPAN 3) (PEIMS #: 03440300) Credit: 1
Grade Level: 9-12
Prerequisite: Spanish II
This is a course designed to further strengthen proficiency of listening, reading, speaking and writing skills through conversation, presentations and extended vocabulary in the target language. This course is a complete, fully integrated course designed to help students perfect their Spanish by offering a comprehensive review and systematic expansion of the basic structure of Spanish, commonly taught at the introductory levels, while providing numerous opportunities for developing communication skills and cultural competency**.** It is taught at the college intermediate level. The course will require work outside the school day. *If student is eligible, this course may be taken on a pass/fail basis.*

Spanish III (Dual Enrollment) Semesters: 2
(SPAN 3) (PEIMS #: 03440300) Credit: 1
Grade Level: 9-12 Dual at HHS & HHS South
Prerequisite: Spanish II: Students must submit a separate TSC application and other required documents. TSI met in reading and writing or equivalent.
Builds upon existing oral proficiencies of heritage speakers of Spanish. Enhances proficiencies in the home -based language by developing a full range of registers including public speaking and formal written discourse. Emphasis on comprehension, appreciation, and interpretation of the cultures of the Spanish-speaking world.

AP Spanish IV Language Semesters: 2
(APSPALAN) (PEIMS #: A3440100) Credit: 1
Grade Level: 9-12
Prerequisites: Spanish I-III; Honors highly recommended
This course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of products, both tangible (e.g., tools, books) and intangible (e.g., laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions that underlie both practices and products). This course prepares students for the Spanish Language & Culture Advanced Placement Exam and it is highly recommended students take the AP exam. **This course is conducted in Spanish.** *If student is eligible, this course may be taken on a pass/fail basis.*

AP Spanish V Literature Semesters: 2
(APSPALIT) (PEIMS #: A3440200) Credit: 1
Grade Level: 9-12
Prerequisites: AP Spanish Language
This course is designed to provide students with a learning experience equivalent to that of an introductory college course in literature written in Spanish. The course introduces students to the formal study of a representative body of texts from Peninsular Spanish, Latin American, and U.S. Hispanic literature. This course prepares the student to take the Spanish Literature Advanced Placement Exam and it is highly recommended students take the AP exam. **This course is conducted in Spanish**. *If student is eligible, this course may be taken on a pass/fail basis.*

Computer Science I Semesters: 2
(TACS1) (PEIMS #: 03580200) Credit: 1
Grade Level: 10-12
Prerequisites: *Algebra I*
Computer Science I 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 the principles of computer science through the study of technology operations, systems, and concepts.

French I Semesters: 2
(FREN 1) (PEIMS #: 03410100) Credit: 1
Grade Level: 10-12
Prerequisite: None
The course provides students with a basic introduction to the French language. The four language skills of listening, speaking, reading, and writing are developed through an intense study of vocabulary, grammar, and the culture of the Francophone world. This course provides a solid base for the second year of French.

French II Semesters: 2
(FREN 2) (PEIMS #: 03410200) Credit: 1
Grade Level: 10-12
Prerequisite: French I
Students enhance both oral and written proficiency through continued study of vocabulary, grammar, and culture. French II prepares students for advanced course work in French III.

French III Semesters: 2
(FREN 3) (PEIMS #: 03410300) Credit: 1
Grade Level: 10-12
Prerequisite: French II
Students will continue to have exposure to all regions of the French speaking world, learn new vocabulary that facilitates reading and conversation, review past grammar and advanced grammar, and will have many opportunities to practice it both orally and written. Student should be able to understand most of the text when reading an article or story. This class will prepare them for the College Level French classes practicing the four skills required in the foreign language process: speaking, listening, writing and reading. *If student is eligible, this course may be taken on a pass/fail basis.*

Honors French III Semesters: 2
(FREN 3) (PEIMS #: 03410300) Credit: 1
Grade Level: 10-12
Prerequisite: French II
Students continue to develop speaking and listening skills in French III. Advanced study of grammar, vocabulary, and culture strengthen reading comprehension and composition skills. Literary pieces introduce students to Francophone authors, and introduction to business and commerce in the European community, including French History. Classes taught in English and French. The course will require work outside the school day. *If student is eligible, this course may be taken on a pass/fail basis.*

AP French IV Language & Culture Semesters: 2
(APFRLAN) (PEIMS #: A3410100) Credit: 1
Grade Level: 11-12
Prerequisites: French I-III; Honors French III highly recommended
This course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of products, both tangible (e.g., tools, books, music) and intangible (e.g., laws, conventions, institutions); practices (patterns of social interactions within a culture) and perspectives (values, attitudes, and assumptions that underlie both practices and products). This course prepares students for the French Language & Culture Advanced Placement Exam and it is highly recommended students take the AP exam. **This course is conducted in French.** *If student is eligible, this course may be taken on a pass/fail basis.*

AP Latin IV Semesters: 2
(APLATVG) (PEIMS #: A3430100) Credit: 1
Grade Level: 11-12
Prerequisite: Latin I, Latin II
The AP Latin course is designed to provide intermediate to advanced high school students with a rigorous Latin course, approximately equivalent to an intermediate to an upper college or university Latin course. Students who successfully complete this course will be able to read, understand, translate, and analyze Latin poetry and prose. The students will be able to prepare and translate the Advanced Placement Latin readings, with an accuracy that reflects understanding of the Latin in all its details. Students will develop their language skills through various activities: precise, literal translation of prepared poetry and prose; reading with comprehension of sight passages, both poetry and prose; and written analysis that demonstrate the results of critical reading in clear and coherent arguments supported by textual examples.

Fine Arts

Art I Semesters: 2
(ART1) (PEIMS #: 03500100) Credit: 1
Grade Level: 9-12
Prerequisite: None
This class is a foundation and is basic to the entire art program. Students study the main elements and principles of design and apply and interpret them visually through various media. A look at art through the ages, its masters, its movements, and its influence on the world, is incorporated into the course. Students will establish interdisciplinary connections that will become necessary for long-term learning.

Art I (Dual Enrollment) Semester:1
(ART1)(PEIMS# 03500100) Credit: 1
Grade Level: 9 (Cano Academy Only)
Prerequisite: *Students must submit a separate TSC application and other required documents. TSI met in reading and writing or equivalent.*
This class is a foundation and is basic to the entire art program. Students study the main elements and principles of design and apply and interpret them visually through various media. A look at art through the ages, its masters, its movements, and its influence on the world, is incorporated into the course. Students will establish interdisciplinary connections that will become necessary for long-term learning. In order to earn the three-hour college credit for *ARTS 1301 Art Appreciation,* a general introduction to the visual arts designed to create an appreciation of the vocabulary, media, techniques, and purposes of the creative process. Students will critically interpret and evaluate works of art within formal, cultural, and historical contexts will be integrated into the course.

Art II – Drawing and Painting Semesters: 2
(ART 2 DRAW) (PEIMS #: 03500500) Credit: 1
Grade Level: 10-12
Prerequisite: Art I
Second year Visual Art students continue their studies in Drawing and Painting using a variety of media. Students will prepare a portfolio of their work.

Art II – Photography Semesters: 2
(ART2PHTO) (PEIMS #: 03501200) Credit: 1
Grade Level: 10-12
Prerequisite: Art I
This beginning photography course covers traditional black and white film photography as well as a digital approach. For the traditional style, students will use 35mm film cameras and enlargers. They will be trained in darkroom technique as they learn about the chemicals used in film developing and printing. They will also learn uses of a digital camera and uploading digital images to a computer. Students will learn how to digitally enhance their photos using Adobe Photoshop. They will prepare a portfolio from all the accumulated assignments, and will create a Microsoft Movie Maker presentation.

Pre-AP Visual Art Semesters: 2
(ART2DES) (PEIMS #: 03501210) Credit: 1
Grade Level: 10-12
Prerequisite: Art I
Pre-AP Visual Arts requires students to analyze and respond to works of art, develop and refine their own ideas by drawing on a variety of source material, and constructively respond to the work of peers as it develops. Students build and refine technical skills while also developing an understanding of art making as a means of communicating and investigating topics or ideas of significance. The foundational concepts, instructional principles, and artistic practices at the heart of Pre-AP Visual Arts prepares students for participation in AP Art and Design and AP Art History. The course will require work outside the school day.

AP Two-Dimensional Design Portfolio Semesters: 2
(AP2DDP Art, Levels III and IV) (PEIMS #: A3500400) Credit: 1
Grade Level: 11-12
Prerequisites: Pre-AP Visual Arts or any Art II
The focus of this course is to develop a two-dimensional design portfolio. This portfolio consists of three sections, Quality, Concentration and Breadth, which may be submitted electronically to the College Board. A written commentary explaining the development of the concentration must accompany the work in this section. As many as 24 – 29 original works will be completed and must be of college-level quality. A score of 3, 4 or 5 may earn college credit. Design involves purposeful decision- making about how to use the elements and principles of art in an integrative way. This portfolio is intended to address a very broad interpretation of design issues. Students are required to demonstrate proficiency in 2-D design using a variety of forms. These could include, but are not limited to, graphic design, typography, digital imaging, photography, collage, fabric design, weaving, illustration, painting, printmaking, etc. Videotapes, three-dimensional works, and color photocopies of your work in other media may not be submitted. *If student is eligible, this course may be taken on a pass/fail basis.*

AP Three-Dimensional Design Portfolio Semesters: 2
(AP3DDP Art, Levels III and IV) (PEIMS #: A3500500) Credit: 1
Grade Level: 11-12
Prerequisites: Pre-AP Visual Arts or any Art II
The focus of this course is to develop a three-dimensional design portfolio This portfolio consists of three sections: Quality, Concentration and Breadth. Work must be photographed and the images are uploaded to the College Board website. The total number of pieces will vary because no specific quantity is assigned to the amount of work that be turned in for the Concentration Section, however, a minimum of 12 images are required. See instructor concerning this section. For the quality Section, 5 works, 2 views of each for a total of 10 images are required. The Breadth Section consists of 16 images: 8 works, 2 views each. "This portfolio is intended to address engagement with physical space and materials…, you should demonstrate your understanding design principles as they relate to depth and space." The elements and principles of design, "can be explored through additive, subtractive, and/or fabrication processes."
* Inquire on campus of any fees that may be charged. *If student is eligible, this course may be taken on a pass/fail basis.*

AP Art History Semesters: 2
(APHISART) (PEIMS #: A3500100) Credit: 1
Grade Level: 10-12
Prerequisite: None
This course introduces students on how to examine and critically analyze major forms of artistic expression from the past and the present the rich traditions of western and non-European architecture, sculpture, painting and other art forms through factual knowledge and the skillful use of principles of aesthetics and comparative criticism. Students will learn how to respond to works of art with intelligence and sensitivity, examining the major forms of artistic expression of the past and of distant cultures as well as those of their own time and environment. This course prepares the student to take the AP Art History exam and it is highly recommended students take the AP exam. *If student is eligible, this course may be taken on a pass/fail basis.*

AP Studio Art: Drawing Semesters: 2
(APSTARTD) (PEIMS #: A3500300) Credit: 1
Grade Level: 11-12
Prerequisite: Pre-AP Visual Arts or any Art II
This course enables students to purse college-level work while still in high school. It is geared to highly motivated students who are seriously interested in drawing with all types of medium. The course will focus on the development of a portfolio with original drawings and quality pieces for submission to College Board for evaluation. *If student is eligible, this course may be taken on a pass/fail basis.*

Theatre Arts I Semesters: 2
(TH1) (PEIMS #: 03250100) Credit: 1
Grade Level: 9-12
Prerequisite: None
Ignite your passion for the stage in Theatre Arts. This foundational course introduces students to the rich tapestry of theatrical expression. Explore the fundamentals of acting, from character development to vocal technique, as you step into the spotlight. Dive into the world of dramatic literature, dissecting classic and contemporary plays to understand storytelling elements. Engage in improvisation exercises to enhance spontaneity and creativity. Collaborate with fellow students to create and perform in-class productions, cultivating a supportive and dynamic artistic community. Develop a profound appreciation for the transformative power of theatre and lay the groundwork for a lifelong journey in performing arts.

Theatre Arts II-III Semesters: 2
(TH 2) (PEIMS #: 03250200) Credit: 1
(TH 3) (PEIMS #: 03250300)
Grade Level: 10-12
Prerequisite: One credit of Theater Arts I
Building on the foundation established in Theatre Arts I, students will deepen their understanding of dramatic expressions. Refine acting techniques, exploring character development, scene analysis, and advanced vocal skills. Collaborate on more intricate in -class productions, honing ensemble skills and individual artistry.

Theatre Production I: Semesters: 2
(TH1PROD) (PEIMS #: 03250700) Credit: 1
Grade Level 9-12
Prerequisite: None
Unlock the world of dramatic arts in our Theatre Production course! This immersive program provides students with a comprehensive understanding of the theatrical process, from script analysis to final curtain call. Collaborate with peers to bring scripts to life, honing acting skills and exploring various genres. Unleash creativity, gain practical experience, and showcase your talent in thriving live productions. Develop a deep appreciation for the art of storytelling.

Theatre Production II-IV Semesters: 2
(TH2PROD) (PEIMS #: 03250800) Credit: 1
(TH3PROD) (PEIMS #: 03250900)
(TH4PROD) (PEIMS #: 03251000)
Grade Level 10-12
Prerequisite: None
Building upon the foundational skills acquired in Theatre Production I, this advanced course sequence provides students with a comprehensive exploration of the production process. The focus intensifies on script analysis, character development, and advanced acting techniques. Students will have the opportunity to lead and manage the entire production process. Explore specialized area such as directing, producing, or designing, and undertake ambitious projects that showcase a mastery of theatrical production. Embrace the challenge of bringing diverse scripts life while refining your artistic vision. This series prepares students for a future in the dynamic and collaborative world of professional theatre production.

Technical Theatre I Semesters: 2
(TH1TECH) (PEIMS #: 03250500) Credit: 1
Grade Level: 9-12
Prerequisite: None
Embark on a behind-the-scenes journey into the captivating world of Technical Theatre! This course offers hands-on exploration of the technical aspects that bring stage productions to life. Delve into the art of set design, construction, and stage management. Learn the intricacies of lighting and sound design, mastering the tools and techniques that shape the ambiance of a performance. Discover the magic of costume and prop creation, turning artistic artistic visions into tangible elements on stage. Develop problem-solving skills through real-world challenges, and gain valuable experience working backstage in our live productions. Unleash your creativity in the technical realm of theatre, where innovation meets the seamless execution of a compelling show.

Technical Theatre II-IV Semesters: 2
(TH2TECH) (PEIMS #: 03250600) Credit: 1
Grade Level: 10-12
Prerequisite: None
Technical Theatre II-IV will build upon the foundational skills acquired in Technical Theatre I. These advanced classes delve deeper into the intricacies of stagecraft. Students will refine their proficiency in set design, construction, and stage management, gaining mastery in executing complex productions. Explore advanced lighting and sound design, incorporating cutting edge technologies to enhance the theatrical experience. These courses will empower students with the expertise needed for a successful and impactful career in technical theatre.

Dance I-IV Semesters: 1-2
(DANCE1) (PEIMS #: 03830100) (DANCE2) (PEIMS #: 03830200) Credits: 1-2
(DANCE3) (PEIMS #: 03830300) (DANCE4) (PEIMS #: 03830400)
Grade Level: 9-12
Prerequisite: Auditions
Students in this course will participate as a member of the drill team. This course is designed to develop and enhance the students' abilities to participate in dance/drill team activities. This course offers many educations experiences by providing opportunities to participate in a variety of dance/drill team activities, including local, state and national performances. This program also provides the opportunity for dance/drill team competition at various levels. Students participate in co-curricular activities while serving school and community leaders through their performances and volunteer services.

Band I-IV Semesters: 1-2
(MUS1BAND) (PEIMS #: 03150100) (MUS2BAND) (PEIMS #: 03150200) Credits: 1/2—2
(MUS3BAND) (PEIMS #: 03150300) (MUS4BAND) (PEIMS #: 03150400)
Grade Level: 9-12
Prerequisite: Auditions. Previous enrollment in band or qualified instruction on a band instrument. Instructor approval.

Band students learn intermediate and advanced instrumental techniques, fundamentals, and artistry. They will perform a variety of repertoire from different style periods that will challenge them to an advanced level of musicianship. Students will be placed in a performing ensemble (Honors Band, Wind Symphony, Ensemble, Symphonic Band or Concert Band) based on developed skills, ability and instrumentation needs of the ensembles. Participation in performances and practices during school hours, after school, and on weekends is required as part of the student's grade for each class. Students enrolling in any band class are hereby advised that failure to participate in one or more performances is grounds for removal from performances, the band class and/or a failing grade. Opportunities to participate in District, Region, Area, and State level competitions are available and, when possible, all ensembles will compete at UIL Concert and Sight-reading Contest. Therefore band students are required to maintain academic eligibility.
*Credit for physical education is granted only if a student actively participates in marching band activities. Failure to participate in marching activities may result in noncompliance toward the PE credits required for graduation.
** A participation fee may be required of each student at the beginning of the school year.

Choral Music I-IV Semesters: 1-2
(MUS1CHOR) (PEIMS #: 03150900) Credits: ½ - 2
(MUS2CHOR) (PEIMS #: 03151000)
(MUS3CHOR) (PEIMS #: 03151100)
(MUS4CHOR) (PEIMS #: 03151200)
Grade Level: 9-12
Prerequisites: Auditions and instructor approval
Choral students learn intermediate and advanced vocal techniques, fundamentals, and artistry. They will perform a variety of repertoire from different style periods that will challenge them to an advanced level of musicianship. Students will be placed in a performing ensemble (Junior Varsity Women's Choir, Junior Varsity Men's Choir, Varsity Women's Choir, Varsity Men's Choir, Women's Chorus, and /or Chorale) based on the developed skills and ability of each student. Participation in all rehearsals and performances during school hours, after school, and on weekends, is required as part of the student's grade. Continuous failure to attend performances will require removal from the choir program. Opportunities to participate in District, Region, Area, and State level competitions are available for all students. When possible, all groups will compete at UIL Concert and Sight-reading Contest. Maintaining academic eligibility is a requirement in order to participate in all choral activities.
**A participation fee may be required of each student at the beginning of the school year.

String Orchestra I-IV Semesters: 1-2
(MUS1ORCH) (PEIMS #03150500) Credits: ½ - 2
(MUS2ORCH) (PEIMS #03150600)
(MUS3ORCH) (PEIMS #03150700)
(MUS4ORCH) (PEIMS #03150800)
Grade Level: 9-12
Prerequisites: Auditions. Previous enrollment in orchestra or qualified instruction on a string orchestra instrument. Instructor approval.
Orchestra students learn intermediate and advanced instrumental techniques, fundamentals, and artistry. They will perform a variety of repertoire from different style periods that will challenge them to an advanced level of musicianship. Student will be placed in a performing ensemble (Junior Varsity Orchestra or Varsity Orchestra) based on the developed skills and ability of each student. Students will be expected to attend all rehearsals and performances both during and after school hours. Performance attendance is required and grades will reflects each student's participation. Continuous failure to attend performances will require removal from the orchestra program. Opportunities to participate in District, Region, Area, and State level competitions are available to all students. When possible, all groups will compete at UIL Concert and Sight-reading Contest. Maintaining academic eligibility is a requirement to participate in all orchestra activities.
*A participation fee may be required for each student at the beginning of the school year.

Color guard/Flag Corps I-IV Semester: 1
Grade Level: 9-12 Credit: ½
Prerequisites: Audition required
Members will actively participate in marching band activities and performances. Students will be expected to attend all rehearsals both during and after school hours. Performance attendance is required and grades will reflect each student's participation. Failure to attend performances will require removal from the program. Maintaining academic eligibility is a requirement to participate in all color guard activities.
*Credit for PE is granted only if member actively participates in marching band activities. Failure to participate in marching activities may result in noncompliance toward the PE credits required for graduation.

Music Appreciation (Dual Enrollment) Semester: 1
(MUSSMA1)(PEIMS# 03155600) Credit: 1
Grade Level: 9-12
Prerequisite: *Students must submit a separate TSC application and other required documents. TSI met in reading and writing or equivalent.*
Understanding music through the study of cultural periods, major composers, and musical elements. Illustrated with audio recordings and live performances.

AP Music Theory Semesters: 2
(APMUSTHY) (PEIMS #: A3150200) Credit: 1
Grade Level: 11-12
Prerequisites: two years of high school experience in a performing band, choir, or orchestra. Must be currently enrolled in an ensemble.
This course focuses on the development of the student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score from various performers and genres. Emphasized in the course is the acquisition of correct notational skills and speed and fluency of basic materials. This course prepares the student to take the AP Music Theory exam and it is highly recommended students take the AP exam. *If student is eligible, this course may be taken on a pass/fail basis.*

Applied Music I Semesters: 2
(MUS1APL) (PEIMS #: 03152500) Credit: 1
Applied Music II
(MUS2APL) (PEIMS #: 03152600)
Grade Level: 10-12
Prerequisites: Concurrent enrollment in a performing ensemble and director's approval is required.
This course is an independent study course allowing students the flexibility to complete their demonstration of mastery level performance skills on a timeline other than the daily instructional class time. The coursework includes extensive preparation of literature selected from a TEA prescribed music list of works. The level of literature to be selected is advanced in skill requirement and in most cases, will require the assistance of a regular private lesson teacher. This course promotes college readiness for potential college music majors/minors.

Applied Music III Semesters: 2
(MUS3APL) (PEIMS #:03152601) Credit: 1
Grade Level: 12
Prerequisites: Concurrent enrollment in a performing ensemble and director's approval is required. Applied Music II
This more rigorous individualized course will focus on more creative expressions from the performer. Critical evaluations and responses are required from all students. The student will be expected to exhibit high-level concert etiquette including processes for self-evaluation and select tools for personal artistic improvements.

Applied Music IV Semesters: 2
(MUS4APL) (PEIMS #: 03152602) Credit: 1
Grade Level: 12
Prerequisites: Concurrent enrollment in a performing ensemble and director's approval is required. Applied Music III
This more rigorous individualized course will focus on more creative expressions from the performer. Critical evaluations and responses are required from all students. The student will be expected to exhibit high-level concert etiquette including processes for self--evaluation and select tools for personal artistic improvements. Exemplary performance levels are explored from students.

Fine Arts Elective

Digital Art and Animation Semesters: 2
(Technology Applications course) Credit: 1
(TADGAA) (PEIMS #: 03580500)
Grade Level: 9-12
Recommended Prerequisite: Art I
Digital Art and Animation consists of computer images and animations created with digital imaging software. Digital Art and Animation has applications in many careers, including graphic design, advertising, web design, animation, corporate communications, illustration, character development, script writing, storyboarding, directing, producing, inking, project management, editing, and the magazine, television, film, and game industries. Students in this course will produce various real-world projects and animations. This course is recommended for students in Grades 9-12. This course satisfies the high school fine arts graduation requirement and will be offered at Harlingen School of Health Professions.

Army JROTC – HHS Only

Army Junior Reserve Officers' Training Corps Semesters: 2
(SUBJ1) (PEIMS #: PES00004) Credit: 1
Grade Level: 9-12
Prerequisites: None
The mission of the Army JROTC is to motivate young people to be better citizens. JROTC offers a full array of extra-curricular activities such as: Marksmanship Team, Armed and Unarmed Drill Teams, Color Guard Team, Physical Fitness Team, Academic and Leadership Teams. Program highlights include Junior Cadet Leadership Challenge Summer Camp, Military Ball, Military Drill Competitions, Parades, Awards Banquet, and a Water Safety Course. Leadership practicum covers personal choices, problem solving, military drill, and functioning of the Cadet Corps of Cadets Organization. No JROTC Cadet is under any obligation to join the military. It is simply a leadership and character development program.

JROTC 1
(ROTC1) (PEIMS #: 3160100)
Junior Reserve Officer Training Corps (JROTC) is a leadership education program. This program will help students build a strong knowledge base of self-discovery and leadership skills applicable to many leadership and managerial situations. Mastery of these standards through project-based learning, service learning and leadership development activities will prepare students for 21st Century leadership responsibilities. This course is designed to introduce students to the history, customs, traditions and purpose of the Army JROTC program. It teaches students strategies to maximize their potential for success through learning and self-management. Basic leadership skills to include leadership principles, values and attributes and communications skills are integrated throughout the course. High schools students develop an understanding of learning style preferences, multiple intelligences, emotional intelligence and study skills. These self-assessments will enable students to be self-directed learners. The JROTC curriculum is enhanced through physical fitness activities, extracurricular and co-curricular activities that support the core employability skills standards and McRel academic standards. May be taken as an alternative to P.E. Students from Cano Academy Academy will be bussed to HHS or HHSS.

JROTC 2
(ROTC2) (PEIMS #: 03160200)
Prerequisites: Complete JROTC 1
This course is designed to build on the self-discovery skills sets taught in JROTC 1. As self-directed learners, students study the fundamentals citizenship skills, the foundation of the American political system and our Constitution. Personal responsibility and wellness is reinforced by diet, nutrition and physical fitness activities. Drug and alcohol awareness and prevention are reinforced. Students are placed in leadership roles than enable them to demonstrate an understanding of basic leadership principles, values and attributes. The Junior ROTC curriculum is enhanced through physical fitness activities, extracurricular and co-curricular activities that support the core employability skills standards and McRel academic standards.

ARMY JROTC 3
(ROTC3) (PEIMS #: 03160300)
Prerequisites: Complete JROTC 2
This course is designed to build on the leadership experiences developed during JROTC Army 1 and 2. Basic command and staff principles are introduced and include an overview of organizational roles and responsibilities. Leadership strategies, managing conflict, leading others, planning and communication skills are evaluated to improve organizational effectiveness. Career planning is investigated. The Junior ROTC curriculum is enhanced through physical fitness activities, extracurricular and co-curricular activities that support the core employability skills standards and McRel academic standards. Students will be eligible to receive credit for Health upon successfully completing the 3rd year in JROTC.

ARMY JROTC 4
(ROTC4) (PEIMS #: 03160400)
Prerequisites: Complete JROTC 3
Junior Reserve Officer Training Corps (JROTC) is a leadership education program. This program will help students build a strong knowledge base of self-discovery and leadership skills applicable to many leadership and managerial situations. Mastery of these standards through project-based learning, service learning and leadership development activities will prepare students for 21st Century leadership responsibilities. This course is designed to build on the leadership skills developed in JROTC 1, 2, and 3. Students develop an in-depth understanding of the branches of military service. Intermediate leadership skills to include leadership principles, values and attributes and communication skills are integrated throughout the course. Financial planning skills are studied through the National Endowment for Financial Education. Fundamental teaching skills are introduced. The JROTC curriculum is enhanced through physical fitness activities, extracurricular and co-curricular activities that support the core employability skills standards and McRel academic standards. Student will be eligible to receive credit for U.S. Government upon successfully completing the 4th year in JROTC.

Air Force JROTC – HHSS Only

9TH Grade	10th Grade	11th Grade	12th Grade
JROTC I PE Elective	JROTC I PE Elective	JROTC I PE Elective	JROTC I PE Elective
	JROTC II PE Elective	JROTC II PE Elective	JROTC II PE Elective
		JROTC III Health and PE Elective	JROTC III Health and PE Elective
			JROTC IV
SUMMER LEADERSHIP SCHOOL	SUMMER LEADERSHIP SCHOOLS	SUMMER LEADERSHIP SCHOOLS	

Air Force Junior Reserve Officer Training Corps (AFJROTC I-IV)
(SUBJ1) (PEIMS #: PES00004)
The Mission of the Air Force Junior ROTC is a 1-4 year program designed to build better citizens for America. This program is teaches leadership, problem solving, planning, coordinating and promotion of community events and service. To educate and train high school students in citizenship, community service, responsibility, teamwork, character and self-discipline. Students wear the Air Force JROTC uniform once a week during school and at other events and community service projects. The Wellness Component is an aerobic activity at Pendleton Park Pool once a week. JROTC may be taken as an alternative Physical Education and Health.
* Health and PE credits are awarded at completion of ROTC-3 (Maximum of 2 ½ PE and ½ Health credits upon successful completion of AFJROTC 3). AFJROTC Students are not obligated to join any military service.

AFJROTC IA/IB Full Year Course Semesters: 2
(ROTC1) (PEIMS #: 03160100) AFJROTC Elective Credit: 1
Grade Level: 9-12 Health and PE Credit: ½ - 1*
Prerequisites: None
This is the first Air Force JROTC course for all new cadets. This course has three components: Aerospace History, Leadership and fellowship practicum, a Wellness (physical fitness) component, Health and Physical Fitness. The aviation history course focuses on the development of flight, civilian and military aviation and a brief astronomical and space exploration history. The leadership practicum covers personal choices, problem solving, military drill, functioning of the cadet corps organization and special projects.

AFJROTC IIA/IIB Full Year Course Semesters: 2
(ROTC2) (PEIMS #: 03160200) Credits: 1
Grade Level: 10-12 Health and PE Credit: ½ - 1*
Prerequisites: AFJROTC IA/IB
The leadership practicum covers fundamentals of leadership and management, problem solving, military drill, functioning of the cadet corps organization and special projects. Science of Flight, Exploring Space and Cultural Studies are part of the course and offered in a rotational basis.

AFJROTC IIIA/IIIB Full Year Course Semesters: 2
(ROTC3) (PEIMS #: 03160300) Credits: 1
Grade Level: 11-12 Health and PE Credit: ½ - 1*
Prerequisites: AFJROTC IIA/IIB
The leadership practicum covers advanced cadet corps leadership and management, problem solving, military drill, functioning of the cadet corps organization and direct special projects. Science of Flight, Exploring Space and Cultural Studies are part of the course and offered in a rotational basis.

AFJROTC IVA/IVB Semesters: 2
(ROTC4) (PEIMS #: 03160400) Credit: 1
Grade Level: 12
Prerequisites: AFJROTC IIIA/IIIB
The cadets manage the entire corps during the fourth year. This hands-on experience affords the cadets the opportunity to put the theories of previous leadership courses into practice. The cadets will do all the planning, organizing, coordinating, directing, controlling, and decision-making. They practice their communication, decision-making, personal-interaction, managerial, and organizational skills.

CAREER AND TECHNICAL EDUCATION CLASSES

- **Appropriate safety clothing and/or gear as specified, by CTE teachers, <u>must</u> be worn by students at all times when exposed to any shop, lab or construction material, tools and equipment.**

There are no exceptions, as the student's safety is first priority.

- **Applications are required for the following CTE programs and Academies:**
  - **Emergency Medical Assistant Program**
  - **Firefighter Academy**
  - **Pre-Veterinary Science Academy**

The submittal of an application does not guarantee acceptance into the program/academies as other prerequisites are required.

- **Prior to enrolling in any CTE Practicum course, the student must first complete a Career and Technical Education HCISD Practicum Application.**

Please visit with your counselor to pick the application up.

The student must also have previously and successfully obtained 3 or more credits in 2 or more courses within a coherent sequence of courses in the same career cluster of the desired practicum course.

Firefighter Academy

QUALIFYING SOPHOMORES POSSESS THE OPPORTUNITY TO APPLY FOR ENROLLMENT INTO THE HCISD FIREFIGHTER ACADEMY AND PURSUE INDUSTRY CERTIFICATIONS IN:

- BASIC STRUCTURE FIRE SUPPRESSION CERTIFICATION
- FIRST RESPONDER CERTIFICATION/EMT CERTIFICATION
- CPR/FIRST-AID

THE FOLLOWING DOCUMENTS ARE PART OF THE ADMISSION APPLICATION:

___ Admission Application
___ Letter of Recommendation #1
___ Student Essay
___ Parental Consent Form
___ Letter of Recommendation #2

THE FOLLOWING COURSES ARE REQUIRED FOR ADMISSION:

✓	HIGH SCHOOL COURSES TAKEN AS PART OF THE HEALTH SCIENCE ACADEMY or PRE-LAW ACADEMY
	Principles of Health Science **or** Principles of Law, Public Safety, Corrections & Security
	Health Science Theory **and/or** Medical Terminology **or** Law Enforcement I

ACCEPTANCE INTO THE FIREFIGHTER ACADEMY WILL BE DETERMINED ON RANKING.

HCISD STUDENT DOCUMENTATION THAT WILL BE UTILIZED IN THE RANKING OF APPLICANTS INCLUDE:

- Most recent STAAR/standardized test results
- TSI Scores: minimum of 350 in Mathematics; minimum of 351 in Reading and a minimum of 340 in Writing
- Overall grades through the most recent grading period; minimum GPA of 2.5
- Overall attendance records
- Overall discipline records
- Potential interview with the HCISD Firefighter Academy Coordinator and/or HCISD Administrator(s)

Emergency Medical Technician Program

QUALIFYING SOPHOMORES POSSESS THE OPPORTUNITY TO APPLY FOR ENROLLMENT INTO THE HCISD EMT PROGRAM AND PURSUE INDUSTRY CERTIFICATIONS IN:

- Emergency Medical Technician Basic
- American Heart Association CPR/FIRST-AID

THE FOLLOWING DOCUMENTS ARE PART OF THE ADMISSION APPLICATION:

___ Admission Application
___ Parental Consent Form
___ Letter of Recommendation #1
___ Letter of Recommendation #2
___ Student Essay

THE FOLLOWING COURSES ARE REQUIRED FOR ADMISSION:

✓	HIGH SCHOOL COURSES TAKEN AS PART OF THE HEALTH SCIENCE ACADEMY or PRE-LAW ACADEMY
	Principles of Health Science **or** Principles of Law, Public Safety, Corrections & Security
	Health Science Theory **and/or** Medical Terminology **or** Law Enforcement I

ACCEPTANCE INTO THE EMT PROGRAM WILL BE DETERMINED ON RANKING. HCISD STUDENT DOCUMENTATION THAT WILL BE UTILIZED IN THE RANKING OF APPLICANTS INCLUDE:

- Most recent STAAR/standardized test results
- TSI Scores: minimum of 350 in Mathematics; minimum of 351 in Reading and a minimum of 340 in Writing
- Overall grades through the most recent grading period; minimum GPA of 2.5
- Overall attendance records
- Overall discipline records
- Potential interview with the HCISD EMT Program Coordinator and/or HCISD Administrator(s)

Pre-Veterinary Science Academy

QUALIFYING SOPHOMORES POSSESS THE OPPORTUNITY TO APPLY FOR ENROLLMENT INTO THE HCISD PRE-VETERINARY SCIENCE ACADEMY AND PURSUE AN INDUSTRY CERTIFICATION IN:

- Veterinary Assistant Certification

THE FOLLOWING DOCUMENTS ARE PART OF THE ADMISSION APPLICATION:

___ Admission Application
___ Parental Consent Form
___ Letter of Recommendation #1
___ Letter of Recommendation #2
___ Student Essay

✓	HIGH SCHOOL COURSES TAKEN IN AGRICULTURE, FOOD AND NATURAL RESOURCES PROGRAM OF STUDY
	Principles of Agriculture, Food and Natural Resources (recommended)
	Small Animal Management **and** Equine Science **or** Livestock Production

THE FOLLOWING COURSES ARE REQUIRED FOR ADMISSION:
ACCEPTANCE INTO THE VETERINARY ASSISTANT ACADEMY WILL BE DETERMINED ON RANKING. HCISD STUDENT DOCUMENTATION THAT WILL BE UTILIZED IN THE RANKING OF APPLICANTS INCLUDE:

- Most recent STAAR/standardized test results
- TSI Scores: minimum of 350 in Mathematics; minimum of 351 in Reading and a minimum of 340 in Writing
- Overall grades through the most recent grading period; minimum GPA of 2.5
- Overall attendance records
- Overall discipline records
- Potential interview with the HCISD Veterinary Assistant Instructor and/or HCISD Administrator(s)

OTHER HCISD CTE PROGRAM REQUIREMENTS

Students of the Health Science Academy:

- At HHS and HARLINGEN HIGH SCHOOL SOUTH students are eligible to enroll in a Practicum of Health Sciences course with the added opportunity of earning specific certifications their senior (12th) year:

⇒ Certified Medical Assistant Certification (CMA)
⇒ Registered Dental Assistant Certification (RDA)
⇒ Pharmacy Technician Certification (CPhT)

- At the HARLINGEN SCHOOL OF HEALTH PROFESSIONS students are eligible to enroll in a Practicum of Health Sciences course with the added opportunity of earning specific certifications their junior (11th) year:

⇒ Certified Medical Assistant Certification (CMA)
⇒ Licensed Vocational Nursing Certification (LVN)
⇒ Registered Dental Assistant Certification (RDA)
⇒ Pharmacy Technician Certification (CPhT)

Below is a listing of certification specific requirements:

☐ Copy of social security card (MUST match ID)
☐ Copy of Texas driver's license or ID (MUST match social security card)
☐ Passing of a background check by the District
☐ Required Immunizations document signed by their Healthcare Provider and accompanying shot records to include:

- Hepatitis B (3 shots)/TITER
- TDAP (last 10 years)
- MMR (2 shots)/TITER
- Varicella (2 shots)/TITER or letter
- TB Skin Test Negative (within 1 yr.)
- Covid-19/boosters

Agriculture, Food and Natural Resources Program of Study

The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.

Principles of Agriculture, Food, and Natural Resources Semesters: 2
(PRINAFNR) (PEIMS #: 13000200) Credit: 1
Grade Level: 9
Prerequisite: None
A basic course designed to provide an introduction to Agriculture. This course includes units in agriculture career opportunities and development, leadership, communication, personal finance, horticulture, animal systems and agriculture mechanics. This course is taught through Edgenuity.

Greenhouse Operation and Production Semesters: 2
(GREOP) (PEIMS #:13002050) Credit: 1
Grade Level: 10
Prerequisite: Principles of Agriculture, Food and Natural Resources
Greenhouse Operation and Production is designed to develop an understanding of greenhouse production techniques and practices. To prepare for careers in horticultural systems, students must attain academic skills, acquire technical knowledge and skills related to horticultural systems including career opportunities, entry requirements, and industry expectations.

Small Animal Management/Equine Science Semesters: 2
(SMANIMGT)/(EQUINSCI) (PEIMS #: 13000400/13000500) Credit: 1
Grade Level: 10
Prerequisite: Principles of Agriculture, Food and Natural Resources
Requisite for Pre-Veterinary Science Academy
In Small Animal Management, students will acquire knowledge and skills related to small animals and the small animal management industry. Small Animal Management may address topics related to small mammals such as dogs and cats, amphibians, reptiles, and birds. In Equine Science, students will acquire knowledge and skills related to equine animal systems and the equine industry. Equine Science may address topics related to horses, donkeys, and mules.

Wildlife Fisheries and Ecology Management Semesters: 2
(WFECGT) (PEIMS #: 13001500) Credit: 1
Grade Level: 10
Prerequisite: Principles of Agriculture, Food and Natural Resources
Students will examine the importance of wildlife and outdoor recreation with an emphasis on using wildlife and natural resources wisely; students will learn to identify wildlife and their individual special needs, as well as endangered species. A Hunter Education Course will be incorporated into this class. This course will focus on game/non-game wildlife species, fish and aqua crops and their ecological needs as related to agricultural practices.

Livestock Production Semesters: 2
(LIVEPROD) (PEIMS #: 13000300) Credit: 1
Grade Level: 11
Prerequisite: Principles of Agriculture, Food and Natural Resources
Requisite for Pre-Veterinary Science Academy
In Livestock Production, students will acquire knowledge and skills related to livestock and the livestock production industry. Livestock Production may address topics related to beef cattle, dairy cattle, swine, sheep, goats, and poultry.

Horticultural Science Semesters: 2
(HORTISCI) (PEIMS #:13002000) Credit: 1
Grade Level: 11
Prerequisite: Floral Design
A laboratory – oriented course designed to develop skills in the various technical areas of the horticulture industry, preparing individuals to perform in horticulture related fields. The course emphasizes greenhouse and nursery crop production, landscaping, floral design, and food plant production.

Veterinary Medical Applications /Lab
(VETMEDLAB) (PEIMS #:13000610) Semesters: 2
Grade Level: 11 Credits: 2
Prerequisites: Principles of Agriculture and Small Animal Management/Equine Science or Livestock Production
Veterinary Medical Applications/Agricultural Laboratory and Field Experience covers topics relating to veterinary practices, including practices for large and small animal species. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire technical 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 knowledge and skills and technologies in a variety of settings.

Advanced Animal Science Semesters: 2
(ADVANSCI) (PEIMS #: 13000700) Credit: 1
Grade Level: 12
Recommended Prerequisite: Livestock Production
Students will continue their study in animal health, nutrition, reproduction and management in relation to livestock species. An emphasis will be placed on diseases, parasite, basic surgical procedures related to animal health and veterinary medicine and production of livestock. This class may count as a third science credit for the Foundation HSP and a fourth science credit for the Foundation HSP with Endorsements.

Advanced Plant and Soil Science Semesters: 2
(ADVPSSCI) (PEIMS #: 13002100) Credit: 1
Grade Level: 12
Recommended Prerequisite: Horticultural Science
Plant and Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. Investigations, laboratory practices, and field exercises will be used to develop an understanding of current plant and soil science within a scientific setting. This class may count as a third science credit for the Foundation HSP and a fourth science credit for the Foundation HSP with Endorsements.

Practicum in Agriculture, Food, and Natural Resources/
Extended Practicum in Agriculture, Food, and Nat. Resources Semesters: 2
(EXPRAFNR1) (PEIMS#: 13002505) Credits: 3
Grade Level: 12
Prerequisite: Veterinary Medical Applications/Lab
Extended Practicum in Agriculture, Food, and Natural Resources is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. This practicum course is a capstone experience for students participating in a coherent sequence of career and technical education courses in the Pre-Veterinary Science Academy.

Architecture & Construction

Manufacturing

Architecture and Construction/Manufacturing Programs of Study

Students in architecture and construction learn and practice skills that prepare them for diverse post-high school education and training opportunities, from apprenticeships and two-year college programs to four-year college and graduate programs.

Principles of Construction Semesters: 2
(PRINCON) (PEIMS #: 13004220) Credit: 1
Grade Level: 9
Prerequisite: None
Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools.
NOTE: APPROPRIATE SAFETY CLOTHING MUST BE WORN AT ALL TIMES WHEN EXPOSED TO ANY CONSTRUCTION MATERIAL, TOOLS AND EQUIPMENT IN THE LAB.

Principles of Architecture Semesters: 2
(PRINARCH) (PEIMS #: 13004200) Credit: 1
Grade Level: 10
Prerequisite: Principles of Construction
The students will be provided with the skills and techniques to utilize the basic features of a computer-aided drafting program. The principles of computer-aided drafting, architectural symbols, designs and basic drawing techniques will be covered.

Introduction to Welding Semesters: 2
(INTRWELD) (PEIMS #:13032250) Credit: 1
Grade Level: 10
Prerequisite: Principles of Construction
Introduction to Welding will introduce welding technology with an emphasis on basic welding laboratory principles and operating procedures. Students will be introduced to the three basic welding processes, industrial safety and health practices, hand tool and power machine use, measurement, laboratory operating procedures, and introduction to welding codes and standards.
NOTE: APPROPRIATE SAFETY CLOTHING MUST BE WORN AT ALL TIMES WHEN EXPOSED TO ANY CONSTRUCTION MATERIAL, TOOLS AND EQUIPMENT IN THE LAB.

Construction Technology I Semesters: 2
(CONSTECH) (PEIMS #: 13005100) Credits: 2
Grade Level: 10
Prerequisite: Principles of Construction
This course is designed to provide job specific training and skills to enter the work force as a carpenter and learn to use the tools that are involved in carpentry. Instruction will also include basic knowledge and skills in safety and tool usage, building materials, and codes and framing. NCCER Certification.
NOTE: APPROPRIATE SAFETY CLOTHING MUST BE WORN AT ALL TIMES WHEN EXPOSED TO ANY CONSTRUCTION MATERIAL, TOOLS AND EQUIPMENT IN THE LAB.

Masonry Technology I Semesters: 2
(MASTECH1) (PEIMS #: 13006300) Credits: 2
Grade Level: 10
Prerequisite: Principles of Construction
Masonry Technology I will provide information and techniques related to basic masonry and safety precautions.
NOTE: APPROPRIATE SAFETY CLOTHING MUST BE WORN AT ALL TIMES WHEN EXPOSED TO ANY CONSTRUCTION MATERIAL, TOOLS AND EQUIPMENT IN THE LAB.

Electrical Technology I Semesters: 2
(ELECTEC1) (PEIMS #: 13005600) Credit: 1
Grade Level: 10
Prerequisite: Principles of Construction
In Electrical Technology I, students will gain knowledge and skills needed to enter the workforce as an electrician or building maintenance supervisor, prepare for a postsecondary degree in a specified field of construction or construction management, or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, and the reading of electrical drawings, schematics, and specifications.
NOTE: APPROPRIATE SAFETY CLOTHING MUST BE WORN AT ALL TIMES WHEN EXPOSED TO ANY ELECTRICAL MATERIAL, TOOLS AND EQUIPMENT IN THE LAB.

Heating, Ventilation, & Air Conditioning (HVAC) and Refrigeration Technology I
(HVACREF1) (PEIMS #: 13005800) Semesters: 2
Grade Level: 10 Credit: 1
Prerequisite: Principles of Construction
In Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology I, students will gain knowledge and skills needed to enter the industry as technicians in the HVAC and refrigeration industry or building maintenance industry, prepare for a postsecondary degree in a specified field of construction management, or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, principles of HVAC theory, use of tools, codes, and installation of HVAC and refrigeration equipment.
NOTE: APPROPRIATE SAFETY CLOTHING MUST BE WORN AT ALL TIMES WHEN EXPOSED TO ANY HVAC MATERIAL, TOOLS AND EQUIPMENT IN THE LAB.

Plumbing Technology I Semesters: 2
(PLTECH1) (PEIMS #: 13006000) Credit: 1
Grade Level: 11
Prerequisite: Principles of Construction
In Plumbing Technology I, students will acquire knowledge and skills in industry workplace basics and employer/customer expectations, including how to use a plumbing code book; how to identify and use power and hand tools; how to be safe on the jobsite and when using hand and power tools; how to apply basic plumbing mathematics and plumbing drawing; and how to identify, fit, and use plastic, copper, cast iron, carbon steel, and corrugated stainless steel pipe. In addition, students will be introduced to gas, drainage, and water supply systems and continue their knowledge of workplace basics and green technologies.
NOTE: APPROPRIATE SAFETY CLOTHING MUST BE WORN AT ALL TIMES WHEN EXPOSED TO ANY PLUMBING MATERIAL, TOOLS AND EQUIPMENT IN THE LAB.

Concrete I
TSTC—CNBT 1313 (Spring) Semesters: 1
Grade Level: 11 Credits: 2 (HS) & 3 (College)
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
An introduction to the various techniques for concrete utilization in residential and light commercial construction.
3 credit hours.
DUAL credit for: Masonry Technology I (MASTECH1) (PEIMS # : 13006300)
NOTE: STUDENTS WILL BE BUSSED TO TSTC AND BACK TO THEIR CAMPUS.

Architectural Design I Semesters: 2
(ARCHDSN) (PEIMS #: 13004600) Credit: 1
Grade Level: 11
Prerequisites: Principles of Architecture, Algebra I and English I
Engineering Design
This course provides students with specific training for entry-level employment into drafting careers. The class will focus on architectural styles, dimensions, line development and design. Students will develop a complete set of working plans including structural, electrical, mechanical and architectural drawings for the construction of a single-family residence. The class will learn symbols, materials and various methods of construction. Fundamentals of computer-aided drafting and related career opportunities will also be taught. Students interested in entering the field of building construction, engineering or architecture will find this course very beneficial. Students may not enter at 18 week interval.

Welding I Semesters: 2
(WELD1) (PEIMS #: 13032300) Credits: 2
Grade Level: 11
Prerequisite: Introduction to Welding
Welding I provides the knowledge, skills, and technologies required for employment in metal technology systems. Students will develop knowledge and skills related to this system and apply them to personal career development. 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.
NOTE: APPROPRIATE SAFETY CLOTHING MUST BE WORN AT ALL TIMES WHEN EXPOSED TO ANY CONSTRUCTION MATERIAL, TOOLS AND EQUIPMENT IN THE LAB.

Construction Technology II Semesters: 2
(CONTECH2) (PEIMS #: 13005200) Credits: 2
Grade Level: 11
Prerequisite: Construction Technology I
In Construction Technology II, students gain knowledge and skills specific to those needed to enter the work force in the field of building trades or masonry. Students build on the knowledge base from Construction Technology I and are introduced to exterior and interior finish out skills.
NOTE: APPROPRIATE SAFETY CLOTHING MUST BE WORN AT ALL TIMES WHEN EXPOSED TO ANY CONSTRUCTION MATERIAL, TOOLS AND EQUIPMENT IN THE LAB.

Masonry Technology II Semesters: 2
(MASTECH2) (PEIMS #: 13006400) Credits: 2
Grade Level: 11
Prerequisite: Masonry Technology I
Masonry Technology II is designed to further enhance the skills and knowledge of the beginning masonry student.
NOTE: APPROPRIATE SAFETY CLOTHING MUST BE WORN AT ALL TIMES WHEN EXPOSED TO ANY CONSTRUCTION MATERIAL, TOOLS AND EQUIPMENT IN THE LAB.

Electrical Technology II Semesters: 2
(ELECTEC2) (PEIMS #: 13005700) Credits: 2
Grade Level: 11
Prerequisite: Electrical Technology I
In Electrical Technology II, students will gain advanced knowledge and skills needed to enter the workforce as an electrician, a building maintenance technician, or a supervisor; prepare for a postsecondary degree in a specified field of construction or construction management; or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical the ory, tools, codes, installation of electrical equipment, alternating current and direct current motors, conductor installation, installation of electrical services, and electric lighting installation.
NOTE: APPROPRIATE SAFETY CLOTHING MUST BE WORN AT ALL TIMES WHEN EXPOSED TO ANY ELECTRICAL MATERIAL, TOOLS AND EQUIPMENT IN THE LAB.

Heating, Ventilation, & Air Conditioning (HVAC) and Refrigeration Technology II Semesters: 2
Credits: 2
(HVACREF2) (PEIMS #: 13005900)
Grade Level: 11
Prerequisite: Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology I
In Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II, students will gain advanced knowledge and skills needed to enter the industry as HVAC and refrigeration technicians or building maintenance technicians or supervisors, prepare for a postsecondary degree in a specified field of construction or construction management, or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, use of tools, codes, installation of commercial HVAC equipment, heat pumps, troubleshooting techniques, various duct systems, and maintenance practices.
NOTE: APPROPRIATE SAFETY CLOTHING MUST BE WORN AT ALL TIMES WHEN EXPOSED TO ANY HVAC MATERIAL, TOOLS AND EQUIPMENT IN THE LAB.

Residential and Light Commercial Blueprint Reading Semesters: 1
TSTC—CNBT 1300 (Fall) Credits: 2 (HS) & 3 (College)
Grade Level: 11
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
Introduction to construction drawings with a focus on residential and light commercial construction. Additionally, this course will include an introduction to computerized prints and related software. 3 credit hours.
DUAL credit for: Building Maintenance Technology I (BUILDMA1) (PEIMS # : 13005400)
NOTE: STUDENTS WILL BE BUSSED TO TSTC AND BACK TO THEIR CAMPUS.

Print Reading for Machining Trades Semesters: 1
TSTC—MCHN 1302 (Fall) Credits: 2 (HS) & 3 (College)
Grade Level: 11
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
This course will introduce students to blueprints for machining trades with emphasis on machine drawings.
3 credit hours.
DUAL credit for: Metal Fabrication and Machining I (MTFBMCH1) (PEIMS # : 13032700)
NOTE: STUDENTS WILL BE BUSSED TO TSTC AND BACK TO THEIR CAMPUS.

Precision Tools and Measurement Semesters: 1
TSTC—MCHN 1320 (Spring) Credits: 2 (HS) & 3 (College)
Grade Level: 11
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
An introduction to the modern science of dimensional metrology. Emphasis on the identification, selection, and application of various types of precision instruments associated with the machining trade. Practice of basic layout and piece part measurements while using standard measuring tools.
3 credit hours.
DUAL credit for: Precision Metal Manufacturing I (PREMMAN1) (PEIMS # : 13032500)
NOTE: STUDENTS WILL BE BUSSED TO TSTC AND BACK TO THEIR CAMPUS.

Construction Technology I Semesters: 1
TSTC—CNBT 1316 (Spring) Credits: 2 (HS) & 3 (College)
Grade Level: 12
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
This course will introduce students to site preparation, foundation, form work, and framing. Includes safety; tools and equipment; basic site preparation; basic foundations and form work; and basic floor, wall, and framing methods and systems.
3 credit hours.
DUAL credit for: Construction Management I (CONSMGT1) (PEIMS # : 13004900)
NOTE: STUDENTS WILL BE BUSSED TO TSTC AND BACK TO THEIR CAMPUS.

Welding II Semesters: 2
(WELD2) (PEIMS #: 13032400) Credits: 2
Grade Level: 12
Prerequisite: Welding I
Recommended Prerequisites: Algebra l or Geometry.
Welding II builds on the knowledge and skills developed in Welding I. Students will develop advanced welding concepts and skills as related to personal and career development. Students will integrate academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.
NOTE: APPROPRIATE SAFETY CLOTHING MUST BE WORN AT ALL TIMES WHEN EXPOSED TO ANY CONSTRUCTION MATERIAL, TOOLS AND EQUIPMENT IN THE LAB.

Architectural Design II Semesters: 2
(ARCHDSN2) (PEIMS #: 13004700) Credits: 2
Grade Level: 12
Prerequisite: Architectural Design I and Geometry
This third year course will give seniors more specific training for employment into drafting-related careers. They will develop working drawings for both residential and light commercial-type construction. Enrichment through the use of computer-aided drafting techniques and 3-Dimensional Computer Designs will also be incorporated. Students may not enter at 18 week interval.

Practicum in Construction/Extended Practicum Semesters: 2
(EXPRCT1) (PEIMS #: 13005255) Credits: 3
Grade Level: 12
Prerequisite: Construction Technology II, or Electrical Technology II, or HVAC & Refrigeration Technology II, or Plumbing Technology II
In Practicum in Construction Technology, students will be challenged with the application of knowledge and skills gained in previous construction-related coursework. In many cases students will be allowed to work at a job (paid or unpaid) outside of school or be involved in local projects the school has approved for this class.
NOTE: APPROPRIATE SAFETY CLOTHING MUST BE WORN AT ALL TIMES WHEN EXPOSED TO ANY CONSTRUCTION MATERIAL, TOOLS AND EQUIPMENT IN THE LAB.

Practicum in Masonry Technology Semesters: 2
(EXPRCT1) (PEIMS #: 13006455) Credits: 3
Grade Level: 12
Prerequisite: Masonry Technology II
Practicum in Masonry Technology is an occupationally specific course designed to provide classroom technical instruction or work-based learning experiences. Instruction may be delivered through laboratory training or through career preparation delivery arrangements. Safety and career opportunities are included, in addition to work ethics and job-related study in the classroom. Trade and industrial education provides the knowledge, skills, and technologies required for employment in masonry construction.
NOTE: APPROPRIATE SAFETY CLOTHING MUST BE WORN AT ALL TIMES WHEN EXPOSED TO ANY CONSTRUCTION MATERIAL, TOOLS AND EQUIPMENT IN THE LAB.

Construction Technology II Semesters: 1
TSTC—CNBT 1450 (Spring) Credits: 2 (HS) & 4 (College)
Grade Level: 12
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
Framing in residential and light commercial construction. Includes safety, tools, and equipment used in floor, wall, ceiling, and roof framing methods and systems. 4 credit hours.
DUAL credit for: Construction Management II (CONSMGT2) (PEIMS # : 13005000)
NOTE: STUDENTS WILL BE BUSSED TO TSTC AND BACK TO THEIR CAMPUS.

Beginning Machine Shop Semesters: 1
TSTC—MCHN 1300 (Fall) Credits: 2 (HS) & 3 (College)
Grade Level: 12
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
Fundamental machine shop safety, math and measurement. 3 credit hours.
DUAL credit for: Metal Fabrication and Machining II (MTFBMCH2) (PEIMS # : 13032800)
NOTE: STUDENTS WILL BE BUSSED TO TSTC AND BACK TO THEIR CAMPUS.

Machine Shop Mathematics Semesters: 1
TSTC—MCHN 1343 (Spring) Credits: 2 (HS) & 3 (College)
Grade Level: 12
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
Designed to prepare the student with technical, applied mathematics that will be necessary in future machine shop-related courses. 3 credit hours.
DUAL credit for: Precision Metal Manufacturing II (PREMMAN2) (PEIMS # : 13032600)
NOTE: STUDENTS WILL BE BUSSED TO TSTC AND BACK TO THEIR CAMPUS.

Arts, A/V Technology & Communications

MEDIA ARTS AND COMMUNICATIONS ACADEMY

Arts, A/V Technology and Communications Program of Study

Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

Principles of Arts, A/V Technology and Communications Semesters: 2
(PRINAAVTC) (PEIMS #: 13008200) Credit: 1
Grade Level: 9
Prerequisite: None
A/V Technology: This course will provide 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.
Graphic Design: The course offers a streamlined, hands-on training course that will teach students Adobe Photoshop, Adobe Illustrator and Adobe In Design. This course will examine the history, culture, practices and ethics of the field of graphic design. Special emphasis is placed on the production of Advertising layouts, posters and banners. This course will explore job opportunities for Graphic Designers.

Professional Communications Semesters: 1
(PROFCOMM) (PEIMS #: 13009900) Credit: ½
Grade Level: 9-12
Prerequisite: None
Professional Communications blends written, oral, and graphic communication in a career-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 communication. This class will count as a speech credit for the Foundation HSP with Endorsements.

Audio/Video Production I Semesters: 2
(AVPLAB1) (PEIMS #: 13008510) Credits: 2
Grade Level: 10
Prerequisite: Principles of Arts, A/V Technology and Communications
The course offers the student an opportunity to develop skills in a variety of areas which include: scripting film-style story lines, developing plot lines for production videos, camera operation shoulder mount cameras, High Definition and studio cameras at KHGN-17, computer editing software Adobe Premier CS6. All elements of video/film production are covered during the year.

Graphic Design and Illustration I/Lab (DUAL/NON-DUAL) Semesters: 2
(GRDLAB1) (PEIMS #: 13008810) Credits: 2
Grade Level: 10
Prerequisites: Principles of Arts, Audio/Video Technology, and Communications
This course provides students with the knowledge, skills and technologies required for employment in graphic communications and multimedia careers. Students will learn and develop skills from compositing images to artistic montages, to processing camera raw digital photographs. The course offers a streamlined hands-on training in which students will successfully produce professional-quality; full-color documents on high-volume color printing formats or print to a wide range of output devices and formats, including desktop printers and high-resolution imaging devices.

Vector Graphics for Production Semesters: 1
TSTC—GRPH 1359 (Fall) Credits: 2 (HS) & 3 (College)
Grade Level: 10
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
This course will introduce students to the use of computer graphic images for production.
3 credit hours.
DUAL credit for: Graphic Design and Illustration I (GRDLAB1) (PEIMS # : 13008810)
NOTE: THIS IS AN ONLINE TSTC COURSE.

Audio/Video Production II/Lab Semesters: 2
(AVPLAB2) (PEIMS #: 13008610) Credit: 2
Grade Level: 11
Prerequisite: Audio/Video Production I
This course is designed to have the students become actively involved with local media production and broadcast companies. A wide variety of production projects will be produced during the year including: radio/TV. commercials, Southern Scoop or Cardinal Television (CTV), novella/soap/mini-movies, a replica scene from a movie, music videos, autobiographies to creating a 30 second television commercial for a local business owner/company. All students will compile a professional reel, (video resume), of their work. Students may not enter at 18 week interval.

Graphic Design and Illustration II Semesters: 2
(GRAPHDI2) (PEIMS #: 13008900) Credits: 2
Grade Level: 11
Prerequisite: Graphic Design and Illustration I
Students will build upon the knowledge of Adobe Photoshop, Adobe Illustrator and Adobe In-Design and be introduced to Flash Animation and Web page design. The students will explore the fundamentals of 3-D imaging and animation. Students will continue to build and add to a portfolio. Emphasis is placed on directly working with incoming job orders from outside and campus clients for real hands on experience.

Typography Semesters: 1
TSTC—ARTC 1327 (Fall) Credits: .5 (HS) & 3 (College)
Grade Level: 11
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
A study of letterforms and typographic concepts as elements of graphic communication. Emphasis on developing a current, practical typographic knowledge based on industry standards.
3 credit hours.
DUAL credit for: Commercial Photography I (CPHOTO1) (PEIMS # : 13009100)
NOTE: THIS IS AN ONLINE TSTC COURSE.

Digital Audio Technology I Semesters: 2
(DATECH1) (PIEMS: 13009950) Credit: 1
Grade Level: 11
Prerequisite: Audio/Video Production I
Provides students interested in audio production careers such as audio for radio and television broadcasting, audio for video and film, audio for animation and game design, music production and live sound, and additional opportunities and skill sets. Students will be expected to develop an understanding of the audio industry with a technical emphasis on production and critical-listening skills.

Digital Imaging I Semesters: 1
TSTC—ARTC 1302 (Spring) Credits: .5 (HS) & 3 (College)
Grade Level: 11
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
Digital imaging using raster image editing and/or image creation software: scanning, resolution, file formats, output devices, color systems, and image acquisitions.
3 credit hours.
DUAL credit for: Commercial Photography I (CPHOTO1) (PEIMS # : 13009100)
NOTE: THIS IS AN ONLINE TSTC COURSE.

Practicum in Audio/Video Production/Extended Semesters: 2
Practicum in Audio/Video Production Credits: 3
(EXPRAVP1) (PEIMS #: 13008705)
Grade Level: 12
Prerequisite: Student must have a coherent sequence of courses which consists of two or more CTE courses for three or more credits in Arts, Audio/Video Technology & Communications
Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an increasing understanding of the industry with a focus on applying preproduction, production, and post-production audio and video activities in a studio environment. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. Please see counselor for practicum application.

Practicum in Graphic Design and Illustration /Extended Semesters: 2
Practicum in Graphic Design and Illustration Credits: 3
(EXPRGRD1) (PEIMS #: 13009005)
Grade Level: 12
Prerequisite: Student must have a coherent sequence of courses which consists of two or more CTE courses for three or more credits in Arts, Audio/Video Technology & Communications
Careers in graphic design and illustration span all aspects of the advertising and visual 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 a technical understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. Please see counselor for practicum application.

Digital Audio Technology II Semesters: 2
(DATECH2) (PIEMS: 13009960) Credit: 1
Grade Level: 12
Prerequisite: Digital Audio Technology I
Digital Audio Technology II was designed to provide additional opportunities and skill sets for students interested in audio production careers such as audio for radio and television broadcasting, audio for video and film, audio for animation and game design, and music production and live sound. Digital Audio Technology II does not replace Audio Video Production courses but is recommended as a single credit, co-curricular course with an audio production technical emphasis.

Design Communication I Semesters: 1
TSTC—ARTC 1317 (Fall) Credits: 1 (HS) & 3 (College)
Grade Level: 12
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
Study of design development relating to graphic design terminology, tools and media, and layout and design concepts. Topics include integration of type, images and other design elements, and developing computer skills in industry standard computer programs. 3 credit hours.
DUAL credit for: Graphic Design and Illustration ll/Graphic Design and Illustration ll Lab
(GRDLAB2) (PEIMS # : 13008910)
NOTE: THIS IS AN ONLINE TSTC COURSE.

Fundamentals of Photography Semesters: 1
TSTC—PHTC 1311 (Spring) Credits: 1 (HS) & 3 (College)
Grade Level: 12
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
An introduction to camera operation and image production, composition, supplemental lighting, and use of exposure meters and filters. This course covers the operation of a digital camera and the proper use of photographic equipment. 3 credit hours.
DUAL credit for: Graphic Design and Illustration ll/Graphic Design and Illustration ll Lab
(GRDLAB2) (PEIMS # : 13008910)
NOTE: THIS IS AN ONLINE TSTC COURSE.

Business Management and Administration Program of Study

Business Management and Administration careers encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector of the economy.

Principles of Business, Marketing, and Finance Semesters: 2
(PRINBMF) (PEIMS #: 13011200) Credit: 1
Grade Level: 9
Prerequisite: None
In this class, students will gain knowledge and skills in economies and private enterprise system, the impact of global business, the marketing of goods and services, advertising, and product pricing. Students will analyze the sales process and financial management principles.

Business Information Management I Semesters: 2
(BUSIM1) (PEIMS #: 13011400) Credit: 1
Grade Level: 9
Prerequisite: none
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 emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.

Business Information Management II Semesters: 2
(BUSIM2) (PEIMS #: 13011500) Credit: 1
Grade Level: 10
Prerequisite: Business Information Management I; students may not enter class at mid-term
Students 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 will 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.

Business Management Semesters: 2
(BUSMGT) (PEIMS #: 13012100) Credit: 1
Grade Level: 11
Prerequisite: BIM II
Introduces basic management concepts and leadership styles; explores managerial functions, implements a business plan.

Practicum in Business Management/Extended Semesters: 2
Practicum in Business Management Credits: 3
(EXPRBM) (PEIMS #: 13012205)
Grade Level: 12
Prerequisite: Student must have a coherent sequence of courses which consists of two or more CTE courses for three or more credits in Business Management & Administration.
Students will participate in a learning experience that combines classroom instruction, 45 minutes daily with paid office employment. The goal is to prepare students with a variety of skills for a fast-changing workplace or post-secondary education. Students will report to work every day as part of their class requirements. Please see counselor for practicum application.

Finance/Marketing Programs of Study

Finance focuses on the application of financial and accounting procedures including analyzing, interpreting and synthesizing managerial problems using accounting information.

Principles of Business, Marketing, and Finance Semesters: 2
(PRINBMF) (PEIMS #: 13011200) Credit: 1
Grade Level: 9
Prerequisite: None
This is an overview class for students interested in any of the many areas of business, marketing and finance. They will study principles of the economics and the private enterprise system, the impact of global business, the marketing of goods and services, advertising, and product pricing. This course allows students to reinforce, apply and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings.

Accounting I Semesters: 2
(ACCOUNT1) (PEIMS #: 13016600) Credit: 1
Grade Level: 10
Prerequisite: Principles of Business, Marketing, and Finance
Accounting is the language of business and is highly recommended for all students who plan to major in Business. Students will be introduced to the basic principles of an accounting system in order to analyze, classify, and record business transactions in a manual and computerized environment.

Marketing Semesters: 2
(MRKTING) (PEIMS #: N1303424) Credit: 1
Grade Level: 10
Prerequisite: Principles of Business, Marketing, and Finance
Marketing explores the seven core functions of marketing which include: marketing planning – why target market and industry affect businesses; marketing-information management – why market research is important; pricing – how prices maximize profit and affect the perceived value; product/ service management – why products live and die; promotion – how to inform customers about products; channel management – how products reach the final user; and selling – how to convince a customer that a product is the best choice.

Entrepreneurship I Semesters: 2
(ENTREP) (PEIMS #: 13034400) Credit: 1
Grade Level: 10
Prerequisites: Principles of Business, Marketing, and Finance
Do you have the right stuff to be a successful business owner? In Entrepreneurship, you will learn to enjoy your work, be your own boss, and make more money when you learn to plan, design and start a profitable venture. This course is recommended for students interested in a career in business, marketing, advertising, management, public relations, industrial technology or any related field.

Sports and Entertainment Marketing Semesters: 1
(SPORTSEM) (PEIMS #: 13034600) Credit: .5
Grade Level: 10
Recommended Prerequisite: Principles of Business, Marketing, and Finance
Sports and Entertainment Marketing will provide students with a thorough understanding of the marketing concepts and theories that apply to sports and entertainment. The areas this course will cover include basic marketing concepts, publicity, sponsorship, endorsements, licensing, branding, event marketing, promotions, and sports and entertainment marketing strategies.

Money Matters Semesters: 2
(MONEYM) (PEIMS #: 13016200) Credit: 1
Grade Level: 9-12
In Money Matters, students will investigate money management from a personal financial perceptive. Students will apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to establish short-term and long-term financial goals. Students will examine various methods of achieving short-term and long-term financial goals through various methods such as investing, tax planning, asset allocating, risk management, retirement planning, and estate planning.

Fashion Marketing Semesters: 1
(FASHMKTG) (PEIMS #: 13034300) Credit: .5
Grade Level: 10
Recommended Prerequisite: Principles of Business, Marketing, and Finance
Fashion Marketing is designed to provide students with knowledge of the various business functions in the fashion industry. Students in Fashion Marketing will gain a working knowledge of promotion, textiles, merchandising, mathematics, selling, visual merchandising, and career opportunities.

Advanced Marketing Semesters: 2
(ADVMKTG) (PEIMS #: 13034700) Credits: 2
Grade Level: 11
Prerequisite: Marketing
"Innovate or perish!" That's what businesses encounter every day in constantly changing markets. Students will learn the risks and challenges marketers face to maintain their competitive edge. They apply economic, math and communication concepts in a marketing context. This course includes a work-based component in a variety of occupationally specific areas and a classroom component that meets every day. The high school and local businesses partner to provide the work experience and help the student make a successful transition to the work force.

Accounting II Semesters: 2
(ACCOUNT2) (PEIMS #: 13016700) Credit: 1
Grade Level: 11
Prerequisite: Accounting I
Students continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students reflect on this knowledge as they engage in various managerial and cost accounting activities. Students formulate and interpret financial information for use in management decision making. This class may count as a third math credit for the Foundation HSP and a fourth math credit for the Foundation HSP with Endorsements.

Entrepreneurship II Semesters: 2
(ENTPRNR2) (PEIMS #: N1303423) Credit: 1
Grade Level: 11
Prerequisites: Entrepreneurship I
The purpose of the course is to prepare students with the knowledge and skills needed to become a successful entrepreneur within an innovative marketplace. The goal and outcome of the course is for students to have their business launched by the end of the course or have the tools necessary to launch and operate their business. Students are encouraged to work in close cooperation with local industry leaders, community members, and educators to develop ideas and objectives, complete a business model canvas, pitch to potential investors, register with governmental agencies, develop their brand identity, and participate in local chamber of commerce meetings and events.

Practicum in Marketing/Extended Semesters: 2
Practicum in Marketing Credits: 3
(EXPRMKT1) (PEIMS #: 13034805)
Grade Level: 12
Prerequisite: Student must have a coherent sequence of courses which consists of two or more CTE courses for three or more credits in Finance and Marketing.
Through an employment experience and classroom instruction daily, students will focus on one or more of the marketing functional areas. They will demonstrate management and research skills to create the marketing mix. This course covers technology, communication and customer service. The high school and local businesses partner to provide the work experience and help the student make a successful transition to the work force. Please see counselor for practicum application.

Hospitality and Tourism Program of Study

Hospitality and Tourism encompasses the management, marketing, and operations of restaurants and other food services, lodging, attractions, recreation events and travel related services.

Introduction to Culinary Arts Semesters: 2
(INCULART) (PEIMS #: 13022550) Credit: 1
Grade Level: 9
Prerequisite: None
Introduction to Culinary Arts will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. Introduction to Culinary Arts will provide insight into food production skills, various levels of industry management, and hospitality skills. This is an entry level course for students interested in pursuing a career in the foods.

Culinary Arts Semesters: 2
(CULARTS) (PEIMS #: 13022600) Credits: 2
Grade Level: 10 (Dual/non-Dual)
Prerequisite: Principles of Hospitality and Tourism or Introduction to Culinary Arts
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. Instruction focuses on work ethics and legal responsibilities of food preparation, the uses of technology and computer applications and careers in the food and beverage industry. Students can pursue a national sanitation certification.

Advanced Culinary Arts Semesters: 2
(ADCULART) (PEIMS #: 13022650) Credits: 2
Grade Level: 11
Prerequisite: Culinary Arts
Advanced Culinary Arts will extend content and enhance skills introduced in Culinary Arts by in-depth instruction of industry-driven standards in order to prepare students for success in higher education, certifications, and/or immediate employment.

Food Science Semesters: 2
(FOODSCI) (PEIMS #: 13023000) Credit: 1
Grade Level: 12
Recommended Prerequisite: Advanced Culinary Arts or 3 units of Science including Chemistry and Biology
Food science is the discipline in which the engineering, biological, and physical sciences are used to study the nature of foods, the causes of deterioration, the principles underlying food processing, and the improvement of foods for the consuming public as well as incorporating concepts from many different fields including microbiology, chemical engineering, and biochemistry. Students shall be awarded one credit in science for successful completion of this course. Students must also meet the 40% laboratory and fieldwork requirement. This class may count as a third science credit for the Foundation HSP and a fourth science credit for the Foundation HSP with Endorsements.

Practicum in Culinary Arts/Extended Semesters: 2
Practicum in Culinary Arts Credits: 3
(EXPRCUL1) (PEIMS #: 13022705)
Grade Level: 12
Prerequisite: Student must have a coherent sequence of courses which consists of two or more CTE courses for three or more credits in Culinary Arts.
Practicum in Culinary Arts 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 culinary art based workplace.

Human Services Programs of Study

Preparing individuals for employment in career pathways that relate to families and human needs.

Principles of Human Services Semesters: 2
(PRINHUSR) (PEIMS #: 13024200) Credit: 1
Grade Level: 9
Prerequisite: None
This course will enable students to investigate careers in the human services career cluster, including counseling and mental health, early childhood development, family and community, and personal care services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers.

Introduction to Cosmetology Semesters: 2
(INTCOSMO) (PEIMS #: 13025100) Credit: 1
Grade Level: 10
Bussed to Cosmetology at 207 E. Jackson St
Prerequisite: $25 Money Order for TDLR (Texas Department of Licensing and Regulation requirement) will need to be paid the first week of school.
This course is designed for students interested in a career in Cosmetology. Students develop lab skills on a mannequin which include various types of braiding techniques, thermal curling styles, manicuring and wet hairstyling. This course allows students to clock hours toward the Cosmetology I course. Each student will be issued a student permit number from TDLR which can be used for beauty supply discounts. Students desiring to advance into the Cosmetology 1 course must complete all required modules with the highest grade possible due to limited competitive available for the advancement and 135 hours.

Cosmetology I Semesters: 2
(COSMET1) (PEIMS #: 13025200) Credits: 2
Grade Level: 11
Bussed to Cosmetology at 207 E. Jackson St
(Block Schedule Course)
Prerequisite: Introduction to Cosmetology, registration fee of $25 may apply-subject to change
This course provides the student to not only practice and learn on mannequins, but perform services on clients. Students develop professional behavior and manipulative skills in connection with technical and safety procedures. Students demonstrate the following technical skills: hair coloring, highlights, manicuring, scalp treatments, wet hairstyling, thermal styling, hair perming, hair relaxing, scissor cutting, clipper cutting, razor cutting, facial cleansing, facial make-up, waxing and various braiding techniques. Students are required to attend Saturday class from 8:00 a.m. to 3:00 p.m.to complete the required hours and practice on clients for a better development of skills which prepares them for the work force. Students are required to complete 600 hours prior to the beginning of the Cosmetology II course.

Cosmetology II Semesters: 2
(COSMET2) (PEIMS #: 13025300) Credits: 2
Grade Level: 12
Bussed to Cosmetology at 207 E. Jackson St
(Block Schedule Course)
Prerequisite: Clocked 600 hours in Cosmetology I
Second year students receive an advanced in-depth concentration of the areas studied in Cosmetology I. Students are given an opportunity to compete at various Cosmetology UIL contests in the SKILLS USA organization and earn a letterman jacket. Before the end of the 2nd semester, the student will have completed 1000 hours and will become eligible to take the written and practical State Exam to earn their TDLR Cosmetology State License upon passing the examinations.

Education & Training

Human Services

TEACHER ACADEMY

Education and Training/Human Services Programs of Study

Preparing individuals for employment in career pathways that relate to families and human needs. Planning, managing, and providing education and training services, and related learning services.

Principles of Education and Training Semesters: 2
(PRINEDTR) (PEIMS #: 13014200) Credit: 1
Grade Level: 9
Prerequisite: None
This course is designed to introduce learners to the various careers available within the education and career cluster. Students use self-knowledge and educational and career information to analyze various careers within the education and career cluster. Students will also gain an understanding of the basic knowledge and skills essential to careers within the education and career cluster. Students will develop a graduation plan that leads to a specific career choice in the student's interest area.

Child Development Semesters: 2
(CHILDDEV) (PEIMS #:13024700) Credit: 1
Grade Level: 10
Prerequisite: Principles of Education and Training
Child Development is a technical laboratory course that addresses knowledge and skills related to child growth and development from prenatal through school-age children, equipping students with child development skills. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children.

Educational Systems Semesters: 1
TSTC—EDTC 1301 (Fall) Credits: 1 (HS) & 3 (College)
Grade Level: 10
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
A study of the role and responsibilities of educational personnel with emphasis on development of professionalism and effective communication strategies with adults. Topics include the various codes of ethics governing the educational field, the issue of confidentiality, learner's rights and responsibilities, and challenges facing schools.
3 credit hours.
DUAL credit for: Child Development (CHILDDEV) (PEIMS # : 13024700)
NOTE: THIS IS AN ONLINE TSTC COURSE.

Child Guidance Semesters: 2
(CHILDGUI) (PEIMS #:13024800) Credit: 2
Grade Level: 11
Prerequisite: Child Development
Child Guidance is a technical laboratory course that 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. Instruction may be delivered through school-based laboratory training or through work-based delivery arrangements such as cooperative education, mentoring, and job shadowing. Students in this course must complete an HCISD Employee packet or a Head Start application packet that includes Tuberculosis (TB) testing and a criminal history background check.

Instructional Practices Semesters: 2
(INPREDTR) (PEIMS #: 13014400) Credits: 2
Grade Level: 11
Prerequisites: Child Development. Students in this course must complete an HCISD Employee packet that includes Tuberculosis (TB) testing and a criminal history background check.
This course is designed for the student who is interested in a career in education. This course is a field-based internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students enrolled in this must be able to use good judgment in working with children and adults. Students will receive classroom instruction and may work with a teacher or trainer in an elementary, middle school or high school. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, prepare materials for educational environments, assist with record keeping and complete other responsibilities as directed by Instructors. The knowledge and skills learned in this course prepare the student for entry-level employment as a teacher assistant.

Guiding Student Behavior Semesters: 1
TSTC—EDTC 2317 (Fall) Credits: 1 (HS) & 3 (College)
Grade Level: 11
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
A study of developmentally appropriate direct and indirect guidance techniques for use in various school environments. Topics include identification of causes of inappropriate behavior, establishing and managing routines, the environment's role in promoting positive behavior, promoting self-esteem negotiation/conflict resolution strategies, and enhancing positive self-direction. Emphasis in implementation of a behavior management plan.
3 credit hours.
DUAL credit for: Human Growth & Development (HUGRDEV) (PEIMS # : 13014300)
NOTE: THIS IS AN ONLINE TSTC COURSE.

Instructional Technology and Computer Applications Semesters: 1
TSTC—EDTC 1341 (Spring) Credits: 2 (HS) & 3 (College)
Grade Level: 11
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
Examination of specialized educational technology. Topics include the integration of educational computer terminology, system operations, software, and multimedia in the contemporary classroom environment.
3 credit hours.
DUAL credit for: Instructional Practices (INPREDTR) (PEIMS #: 13014400)
NOTE: THIS IS AN ONLINE TSTC COURSE.

Practicum in Education and Training/Extended Semesters: 2
Practicum in Education and Training (DUAL/NON-DUAL) Credits: 3
(EXPREDT1) (PEIMS #: 13014505)
Grade Level: 12
Prerequisite: Student must have a coherent sequence of courses which consists of two or more CTE courses for three or more credits in Education and Training. Students in this course must complete an HCISD Employee packet that includes Tuberculosis (TB) testing and a criminal history background check. Students must provide their own transportation to the worksite.
This course 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. Please see counselor for practicum application.

Instructional Practices and Semesters: 2
Effective Learning Environments Credits: 1.5 (HS) & 3 (College)
TSTC—EDTC 2311 (Fall)
Grade Level: 12
General principles for selecting developmentally appropriate strategies in core curriculum areas, planning the classroom environment, and instructional accommodations and modifications. Topics address methods for supporting instructional planning and implementation of educational goals and objectives. Also examines cooperative learning strategies. 3 credit hours.
DUAL credit for: Practicum in Education and Training/Ext. Pract. in Education and Training (EXPREDT1) (PEIMS #: 13014505)
NOTE: THIS IS AN ONLINE TSTC COURSE.

Wellness of the Young Child Semesters: 2
TSTC—CDEC 1318 (Spring) Credits: 1.5 (HS) & 3 (College)
Grade Level: 12
Factors impacting the well-being of young children. Includes healthy behavior, food, nutrition, fitness, and safety practices. Focuses on local and national standards and legal implications of relevant policies and regulations. Course content is aligned with State Board of Educator Certification Pedagogy and Professional Responsibilities standards. Requires students to participate in a minimum of 16 hours field experience with children from infancy through age 12 in a variety of settings with varied and diverse populations. 3 credit hours.
DUAL credit for: Practicum in Education and Training/Ext. Pract. in Education and Training (EXPREDT1) (PEIMS #: 13014505)
NOTE: THIS IS AN ONLINE TSTC COURSE.

Health Science

Health Science Program of Study

This course of study prepares the students for the transition to clinical or work-based experiences in the health care industry and for the development of a healthy lifestyle.

Principles of Health Science Semesters: 2
(PRINHLSC) (PEIMS #: 13020200) Credit: 1
Grade Level: 8 (HSHP Only)
Grade Level: 9
Prerequisite: None
Principles of Health Science is for high school students with an interest in the medical professions. Students will assess career options and the preparation necessary for employment in the health science industry. Personal professional characteristics, academic preparation and skills necessary for employment will be identified. Leadership development, ethical behavior standards and legal responsibilities will be explored.

Medical Terminology Semesters: 2
(MEDTERM) (PEIMS #: 13020300) Credit: 1
Grade Level: 9 (HSHP Only)
Grade Level: 10
Prerequisite: Principles of Health Science
This course is designed to develop a working knowledge of the language of medicine. Students acquire word building skills by learning prefixes, suffixes, roots, abbreviations, and symbols. Communication skills using the terminology applicable to the health science industry will be practiced.

Principles of Law, Public Safety, Corrections, and Security Semester: 2
(PRINLPCS) (PEIMS #: 13029200) Credit: 1
Grade Level: 9
Prerequisite: None
This course introduces the student to all aspects and careers in Law Enforcement. It lays the foundation for the five pathways that law enforcement encompasses. It will introduce students to the various careers available within the law, public safety, corrections and security. The students will use self-knowledge and educational career information to analyze various careers. The students will also begin to gain an understanding of the basic knowledge and skills essential to careers within the field.

Health Science Theory Semesters: 2
(HLTHSCI) (PEIMS #:13020400) Credit: 1
Grade Level: 10
Prerequisite: Principles of Health Science
Health Science is for high school students with an interest in the medical professions. This one credit elective course is organized to provide basic skills, foundation medical science theory and knowledge of the medical careers and environment to stimulate students' interest in a medical profession as a career choice. Students at the Harlingen School of Health Professions will experience coursework aligned to the area selected from their school of study.

Anatomy and Physiology Semesters: 2
(ANATPHYS) (PEIMS #: 13020600) Credit: 1
Grade Level: 10-12
Prerequisite: Biology and a second Science credit
This course provides an opportunity for an intense study of the human anatomical systems and the interrelationships of the body systems according to function. A great deal of work is hands-on. Laboratory exercises and observation are used and designed to enhance student understanding of both physiological body functions and scientific theory with an emphasis towards medical applications. Students interested in pursuing medical careers are highly encouraged to take this course. If student is eligible, this course may be taken on a pass/fail basis. This class may count as a third science credit for the Foundation HSP and a fourth science credit for the Foundation HSP with Endorsements.
Note: Students interested in the LVN program are required to take this course before applying to the program.

Anatomy and Physiology (Dual Enrollment) Semesters: 2
(ANATPHYS) (PEIMS #: 13020600) Credit: 1
Grade Level: 11
Prerequisites: Biology and Chemistry
TSI met in math, reading, and writing or equivalent.
Anatomy and Physiology is a study of the structure and function of the human body including cells, tissues and organs of the following systems: integumentary, skeletal, muscular, nervous and special senses. Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis. The lab provides a hands-on learning experience for exploration of human system components and basic physiology.

Medical Microbiology Semesters: 2
(MICRO) (PEIMS #: 13020700) Credit: 1
Grade Level: 11-12
Prerequisite: Biology and Chemistry
This course is designed to introduce students to the relationship of microorganisms to wellness and disease. Students develop knowledge and skills of disease prevention by learning the chain of infection. Concepts of asepsis and Universal Precautions will be emphasized in the course. Pathogenic and nonpathogenic organisms will be identified to assist in the understanding of specific diseases, causative agents, and appropriate treatments. The course shall include at least 40 percent laboratory investigation and fieldwork, using appropriate scientific inquiry. If student is eligible, this course may be taken on a pass/fail basis. This class may count as a third science credit for the Foundation HSP and a fourth science credit for the Foundation HSP with Endorsements.

Pathophysiology Semesters: 2
(PATHO) (PEIMS #: 13020800) Credit: 1
Grade Level: 11-12
Prerequisites: Biology and Chemistry
The course is the study of the disease process, the causes of diseases, and how the human body is affected. Pathophysiology is designed to enhance knowledge and skills during the study of human systems. Emphasis is placed on prevention and treatment of diseases. Students will differentiate between normal and abnormal conditions of human systems. The course shall include at least 40 percent laboratory investigation and fieldwork, using appropriate scientific inquiry. If student is eligible, this course may be taken on a pass/fail basis. This class may count as a third science credit for the Foundation HSP and a fourth science credit for the Foundation HSP with Endorsements.

Disaster Response Semesters: 2
(DISRESP) (PEIMS #:N1303011) Credit: 1
Grade Level: 10
Prerequisite: Principles of Law, Public Safety, Corrections, and Security
Disaster Response includes basic training of students in disaster survival and rescue skills that would improve the ability of citizens to survive until responders or other assistance could arrive. Students will receive education, training, and volunteer service to make communities safer, stronger, and better prepared to respond to the threats of terrorism, crime, public health issues and disasters of all kinds.

Emergency Medical Technician Basic Semesters: 2
(EMTB) (PEIMS #: N1303015) Credits: 2
Grade Level: 11
Prerequisite: Principles of Law, Public Safety, Corrections, and Security, Disaster Response, Biology, as well as acceptance through an HCISD application process and completion of a physical examination and background check.
Emergency Medical Technician (EMT)—Basic instructs 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. The EMT—Basic course is an introductory course to concepts, knowledge, and skills needed by EMTs in the areas of communications, transportation, and recordkeeping. Students interested in working in public safety, including fire, police, and ambulance operators will be capable of performing the job expectations of an EMT safely and effectively after the completion of this course.

Practicum in Health Science I/Extended Semesters: 2
Practicum in Health Science I Credits: 3
(EXPRHLS1) (PEIMS #: 13020505)
Grade Level: 11 (HSHP Only)
Grade Level: 12
Prerequisite: Student must have a coherent sequence of courses which consists of two or more CTE courses for three or more credits in Health Science. Students in this course must complete an HCISD Employee packet that includes Tuberculosis (TB) testing, a criminal history background check, fingerprinting and Hepatitis and Bacterial Meningitis immunizations, and an interview. Students may need to provide their own transportation to the worksite(s).
The Practicum in Health Science I course 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. To pursue a career in the health care 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. The health care industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students recognize the employment opportunities, technology, and safety requirements of each system. Students are expected to apply the knowledge and skills necessary to pursue a health science certification or licensure through further education and employment. Please see counselor for practicum application. Students at the comprehensive high schools have the opportunity to earn a certification in: Certified Medical Assistant (CMA), Registered Dental Assistant (RDA), and Pharmacy Technician with the opportunity to earn an EKG certification as well.

Practicum in Law, Public Safety, Corrections and Security/ Extended Practicum Semesters: 2
Credits: 3
(EXPRLPS1) (PEIMS #: 13030105)
Grade Level: 12
Prerequisite: Student must have a coherent sequence of courses which consists of two or more CTE courses for three or more credits in Information Technology.
Practicum in Law, Public Safety, Corrections and Security/ 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 Law, Public Safety, Corrections and Security/ 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.

Practicum in Health Science II/Extended Semesters: 2
Practicum in Health Science II Credits: 3
(EXPRHLS2) (PEIMS #: 13020515)
Grade Level: 12 (HSHP Only)
Prerequisite: Student must have a coherent sequence of courses which consists of two or more CTE courses for three or more credits in Health Science. Students in this course must complete an HCISD Employee packet that includes Tuberculosis (TB) testing, a criminal history background check, fingerprinting and Hepatitis and Bacterial Meningitis immunizations, and an interview. Students may need to provide their own transportation to the worksite(s).
The Practicum in Health Science II course is designed to give students continued 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. Students recognize the employment opportunities, technology, and safety requirements of each system. Students are expected to apply the knowledge and skills necessary to pursue a health science certification or licensure through further education and employment. Offered at Harlingen School of Health Professions. Students at the HSHP have the opportunity to earn a certification in: Certified Medical Assistant (CMA), Registered Dental Assistant (RDA), and Pharmacy Technician with the opportunity to earn an EKG certification as well.

Information Technology

Information Technology Academy

Information Technology Program of Study

Professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services.

Principles of Information Technology Semesters: 2
(PRINIT) (PEIMS #: 13027200) Credit: 1
Grade Level: 9
Prerequisite: None
Students develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment.

Computer Maintenance Semesters: 2
(COMPMTN) (PEIMS #:13027300) Credit: 1
Grade Level: 10
Prerequisite: Principles of Information Technology
In Computer Maintenance, students will acquire knowledge of computer maintenance and creating appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as related to computer maintenance. Students will apply technical skills to address the IT industry and emerging technologies.

Video Game Design Semesters: 2
(VIDGD) (PEIMS #: 13009970) Credit: 1
Grade Level: 10
Prerequisite: Principles of Arts, A/V Technology and Communications
Video Game Design will allow students to explore one of the largest industries in the global marketplace and the new emerging careers it provides in the field of technology. Students will learn gaming, computerized gaming, evolution of gaming, artistic aspects of perspective, design, animation, technical concepts of collision theory, and programming logic. Students will participate in a simulation of a real video game design team while developing technical proficiency in constructing an original game design.

Networking Semesters: 2
(NETWRK) (PEIMS #:13027400) Credit: 1
Grade Level: 11
Prerequisite: Computer Maintenance
In Networking, students will develop knowledge of the concepts and skills related to data networking technologies and practices in order to apply them to personal or career development. To prepare for success, students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

Cybersecurity Semesters: 2
(TBD) (PEIMS #:03580850) Credit: 1
Grade Level: 12
Prerequisite: Networking
The PLTW Cybersecurity course exposes high school students to the ever growing and far reaching field of cybersecurity. Students accomplish this through problem-based learning, where students role-play and train as cybersecurity experts.

UI/UX Design Semesters: 1
TSTC—IMED 1371 (Fall) Credits: 1 (HS) & 3 (College)
Grade Level: 11
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
Application of user experience and user interface design within the context of web design. Instruction in user interface design with an emphasis on the visual, interactive elements of a website including buttons, icons, spacing, typography, color schemes, and responsive design. 3 credit hours.
DUAL credit for: Foundations of User Experience UX (FOUNDUX)(PEIMS # :N1302809)

Beginning Web Programming Semesters: 1
TSTC—ITSE 1311 (Spring) Credits: .5 (HS) & 3 (College)
Grade Level: 11
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
Skills development in web programming including mark-up and scripting languages. 3 credit hours.
DUAL credit for: Web Communications (TAWEBCN) (PEIMS # :03580810)

Web Design Semesters: 1
TSTC—IMED 1316 (Fall) Credits: 1 (HS) & 3 (College)
Grade Level: 12
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
Instruction in web design and related graphic design issues including mark-up languages, web sites, and browsers. 3 credit hours.
DUAL credit for: Web Design (TAWEBDN) (PEIMS # :03580820)

Intermediate Web Programming Semesters: 1
TSTC—ITSE 2302 (Spring) Credits: 2 (HS) & 3 (College)
Grade Level: 12
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
Server-side and client-side techniques for Web development. 3 credit hours.
DUAL credit for: Practicum in Information Technology (PRACIT1) (PEIMS # :13028000)

Law, Public Safety, Corrections & Security

HCISD Firefighter Academy

Pre-Law Academy HARLINGEN CONSOLIDATED INDEPENDENT SCHOOL DISTRICT

Law, Public Safety, Corrections and Security Program of Study

Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.

Principles of Law, Public Safety, Corrections, and Security Semester: 2
(PRINLPCS) (PEIMS #: 13029200) Credit: 1
Grade Level: 9
Prerequisite: None
This course introduces the student to all aspects and careers in Law Enforcement. It lays the foundation for the five pathways that law enforcement encompasses. It will introduce students to the various careers available within the law, public safety, corrections and security. The students will use self-knowledge and educational career information to analyze various careers. The students will also begin to gain an understanding of the basic knowledge and skills essential to careers within the field.

Law Enforcement I Semesters: 2
(LAWENF1) (PEIMS #: 13029300) Credit: 1
Grade Level: 10
Prerequisite: Principles of Law, Public Safety, Corrections, and Security
Law Enforcement I is an overview of the history, organization, and functions of local, state, and federal law enforcement. It includes the role of constitutional law, the United States legal system, criminal law, law enforcement terminology and the classification and elements of crime. Skills learned in this course include field note-taking, report-writing and motor vehicle traffic stops.

Court Systems and Practices Semesters: 2
(COURTSP) (PEIMS #: 13029600) Credit: 1
Grade Level: 10
Prerequisite: Principles of Law, Public Safety, Corrections, and Security
Court Systems and Practices is an overview of the Federal and State Court systems. The course identifies the roles of judicial officers and the trial processes from pre-trial to sentencing and examines the types and rules of evidence. Emphasis is placed on Constitutional laws for criminal procedure such as search and seizure, stop and frisk, and interrogation as well as the structure of the legal system in the United States.

Disaster Response Semesters: 2
(DISRESP) (PEIMS #:N1303011) Credits: 1
Grade Level: 10
Prerequisite: Principles of Law, Public Safety, Corrections, and Security
Disaster Response includes basic training of students in disaster survival and rescue skills that would improve the ability of citizens to survive until responders or other assistance could arrive. Students will receive education, training, and volunteer service to make communities safer, stronger, and better prepared to respond to the threats of terrorism, crime, public health issues and disasters of all kinds.

Firefighter I Semesters: 2
(FIRE1) (PEIMS #: 13029900) Credits: 2
Grade Level: 11
Prerequisite: Principles of Law, Public Safety, Corrections, and Security and Disaster Response as well as acceptance through an HCISD application process and completion of a physical examination and background check.
Firefighter I introduces students to firefighter safety and development. Students will transition into "Cadets" and will analyze the Texas Commission on Fire Protection rules and regulations, proper incident reporting and records, proper use of personal protective equipment, and the principles of fire safety as well as participating in skills necessary for application for the Texas Commission on Fire Protection entry -level Firefighter certification their 12th grade year.

Advanced Legal Skills and Professions Semesters: 2
(ADVLSP) (PEIMS #: N1303016) Credit: 1
Grade Level: 11
Prerequisite: Court Systems and Practices
Advanced Legal Skills and Professions provides students with a foundation to understand the basic mechanics of the U.S. legal system. Building on prior instruction in constitutional issues and the basics of American court systems, this course provides insight into the practical application of the law, as well as civil and criminal procedure, giving students a hands-on opportunity to experience a variety of legal professions. Students will gain an understanding of the attorney-client relationship and the importance of confidentiality, discovery, pretrial motions, jury selection, opening statements, direct and cross examinations, proper use of objections and the rules of evidence, and closing arguments. By conducting elements of a full trial in a mock setting, students will also increase their ability to extemporize appropriately by thinking on their feet. Students will learn how to evaluate a set of facts and mold it into a coherent trial strategy, learning trial practice from the ground floor.

Criminal Investigation Semesters: 2
(CRINVEST) (PEIMS #: 13029550) Credit: 1
Grade Level: 11
Prerequisite: Law Enforcement II
Criminal Investigation is a course that introduces students to the profession of criminal investigations. Students will understand basic functions of criminal investigations and procedures and will learn how to investigate or follow up during investigations. Students will learn terminology and investigative procedures related to criminal investigation, crime scene processing, evidence collection, fingerprinting, and courtroom presentation. Through case studies and simulated crime scenes, students will collect and analyze evidence such as fingerprint analysis, bodily fluids, hairs, fibers, shoe and tire impressions, bite marks, drugs, tool marks, firearms and ammunition, blood spatter, digital evidence, and other types of evidence.

Firefighter II Semesters: 2
(FIRE2) (PEIMS #: 13030000) Credits: 3
Grade Level: 12
Prerequisite: Firefighter I as well as acceptance through an HCISD application process and completion of a physical examination and background check.
Firefighter II is the second course in a series for cadets studying firefighter safety and development. Cadets will understand Texas Commission on Fire Protection rules and regulations, proper incident reporting and records, proper use of personal protective equipment, and the principles of fire safety. Cadets will demonstrate proper use of fire extinguishers, ground ladders, fire hoses, and water supply apparatus systems. At the end of this course, the Cadets will be able to take the Texas Commission on Fire Protection entry-level Firefighter certification.

Forensic Science Semesters: 2
(FORENSCI) (PEIMS #: 13029500) Credit: 1
Grade Level: 12
Prerequisite: Advanced Legal Skills and Professions
Forensics will use the 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 the terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection and scientific procedures to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime sciences such as fingerprint analysis, ballistics and blood spatter analysis. Students investigate the history, legal aspects and career options for forensic science. Skills learned in this course will be how to process a crime scene and analyze evidence. This class may count as a third science credit for the Foundation HSP and a fourth science credit for the Foundation HSP with Endorsements.

Law Enforcement II Semesters: 2
(LAWENF2) (PEIMS #: 13029400) Credit: 1
Grade Level: 12
Prerequisite: Law Enforcement I
Law Enforcement II 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.

Legal Research and Writing Semesters: 2
(LEGRW) (PEIMS Code: N13003014) Credit: 1
Grade Level(s): 10-12
Recommended Prerequisite: Court Systems and Practices.
Legal Research and Writing provides an introduction into the study and practice of legal writing and research. This course is designed to introduce students to the methods and tools used to conduct legal research, develop and frame legal arguments, produce legal writings such as briefs, memorandums, and other legal documents, study U.S. Constitutional law, and prepare for appellate argument(s).

Science, Technology, Engineering & Mathematics

Manufacturing

PRE-ENGINEERING ACADEMY

Science, Technology, Engineering and Mathematics (STEM) Program of Study

The STEM program follows a proven hands-on, real-world, problem-solving approach to learning. Students learn and apply the design process, acquire strong teamwork and communication proficiency, develop organizational, critical-thinking and problem-solving skills. STEM courses complement traditional math and science courses and are designed to prepare students to pursue post-secondary education as well as careers in STEM-related fields.

Introduction to Engineering Design (PLTW) Semesters: 2
(IED) (PEIMS #: N1303742) Credit: 1
Grade Level: 9
Prerequisite: None
The major focus of this course is to expose students to a design process, professional communication and collaboration methods, design ethics, and technical documentation. IED gives students the opportunity to develop skills in research and analysis, teamwork, technical writing, engineering graphics, and problem solving through activity project-problem-based (APPB) learning. Students will use industry standard solid modeling software to facilitate the design and documentation of their solutions to design problems.

Principles of Engineering (PLTW) Semesters: 2
(POE) (PEIMS #: 13037500) Credit: 1
Grade Level: 10
Prerequisites: IED and/or Geometry
Topics include mechanisms, energy, statics, materials, software control, and kinematics. Students develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work, and communicate solutions. POE is a Project-Based Learning (PBL) course that uses hands-on activities to expose students to the various areas of the engineering field.

Digital Electronics (PLTW) Semesters: 2
(DE) (PEIMS #: 13037600) Credit: 1
Grade Level: 11
Prerequisites: POE, Algebra I and Geometry
A project-based course that introduces students to applied digital logic, a key element of careers in engineering and engineering technology. The objective of this course is to use an interactive approach to introduce basic concepts on electronics by soldering circuits, bread boarding circuits, troubleshooting, and by using industry standards computer software in testing and analyzing digital circuitry. Students use mathematics and science in solving real-world engineering problems. This class may count as a third math credit for the Foundation HSP and a fourth math credit for the Foundation HSP with Endorsements.

Computer Integrated Manufacturing (PLTW) Semesters: 2
(CIM) (PEIMS #: N1303748) Credit: 1
Grade Level: 11
Prerequisite: POE
A project-based course that exposes students to the fundamentals of computerized manufacturing technology. Key concepts include: computer modeling, manufacturing machines and tools, computer programming to run manufacturing equipment, robots used in industrial settings and the design and creation of simulated manufacturing cells.

Engineering Design and Problem Solving Semesters: 2
(ENGDPRS) (PEIMS #: 13037300) Credit: 1
Grade Level: 11
Prerequisites: Algebra I and Geometry
Engineering design is the creative process of solving problems by identifying needs and then devising solutions. This course also reinforces and integrates skills learned in previous mathematics and science courses. It emphasizes solving problems, with real world application by applying critical-thinking skills to justify a solution from multiple design options.

Robotics I Semester: 1
(ROBOTIC1) (PEIMS #:13037000) Credit: 1
Grade Level: 11
Prerequisite: Engineering Design and Presentation
Students will transfer academic skills to component designs in a project-based environment through implementation of the design process. Students will build prototypes or use simulation software to test their designs. Additionally, students will explore career opportunities, employer expectations, and educational needs in the robotic and automation industry.

Shop Skills for Biomedical Equipment Technicians
TSTC—BIOM 1270 (Fall) Semesters: 1
Grade Level: 11 Credits: .5 (HS) & 2 (College)
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
Skill development in the common repair tools and repair techniques used by the Biomedical Equipment Technician in the healthcare. Laboratory work emphasizes development of proficiency in soldering and desoldering electronic components from circuit assemblies. 2 credit hours.
DUAL credit for: Digital Electronics (DIGELC) (PEIMS #: 13037600)
NOTE: STUDENTS WILL BE BUSSED TO TSTC AND BACK TO THEIR CAMPUS.

Biomedical Equipment Technology
TSTC—BIOM 1101 (Fall) Semesters: 1
Grade Level: 11 Credits: .5 (HS) & 1 (College)
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
Introduction to current job responsibilities, salaries, and compensations in the Medical industry and healthcare organizations. 1 credit hour.
DUAL credit for: Digital Electronics (DIGELC) (PEIMS #: 13037600)
NOTE: STUDENTS WILL BE BUSSED TO TSTC AND BACK TO THEIR CAMPUS.

DC Circuits
TSTC—CETT 1303 (Fall) Semesters: 1
Grade Level: 11 Credits: 1 (HS) & 3 (College)
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
A study of the fundamentals of direct current including Ohm's law, Kirchoff s laws and circuit analysis techniques. Emphasis on circuit analysis of resistive networks and DC measurements. 3 credit hours.
DUAL credit for: ENERGY & NAT. RESOURCES TECHNOLOGY (ENGNRT) (PEIMS #: 13001100)
NOTE: STUDENTS WILL BE BUSSED TO TSTC AND BACK TO THEIR CAMPUS.

DC Circuits
TSTC—CETT 1303 (Spring) Semesters: 1
Grade Level: 11 Credits: 1 (HS) & 3 (College)
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
A study of the fundamentals of direct current including Ohm's law, Kirchoff s laws and circuit analysis techniques. Emphasis on circuit analysis of resistive networks and DC measurements. 3 credit hours.
DUAL credit for: AC/DC Electronics (ACDCELEC) (PEIMS #: 13036800)
NOTE: STUDENTS WILL BE BUSSED TO TSTC AND BACK TO THEIR CAMPUS.

AC Circuits
TSTC—CETT 1305 (Spring) Semesters: 1
Grade Level: 11 Credits: 1 (HS) & 3 (College)
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
A study of the fundamentals of alternating current including series and parallel AC circuits, phasors, capacitive and inductive networks, transformers, and resonance. 3 credit hours.
DUAL credit for: AC/DC Electronics (ACDCELEC) (PEIMS #: 13036800)
NOTE: STUDENTS WILL BE BUSSED TO TSTC AND BACK TO THEIR CAMPUS.

Engineering Design and Development (PLTW) Semesters: 2
(EDD) (PEIMS #: N1303749) Credit: 1
Grade Level: 12
Prerequisites: DE or CIM
Capstone engineering research course in which student's research, design and develop an original solution to a valid open-ended engineering problem. EDD is a Project-Based Learning (PBL) course in which students apply principles developed in the preceding PLTW courses and are guided by a community mentor. Students present progress reports, submit a final written report and defend their solutions to a panel of outside reviewers at the end of the course.

Robotics II Semester: 1
(ROBOTIC2) (PEIMS #:13037050) Credit: 1
Grade Level: 12
Prerequisite: Robotics I
In Robotics II, students will explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs. This class may count as a third math credit for the Foundation HSP and a fourth math credit for the Foundation HSP with Endorsements.

Introduction to Wind Energy Semesters: 1
TSTC—WIND 1300 (Fall) Credits: 1 (HS) & 3 (College)
Grade Level: 12
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
Introduction of wind technology, wind farm design, and wind power delivery. 3 credit hours.
DUAL credit for: Solid State Electronics (SOSTELEC) (PEIMS #: 13036900)
NOTE: STUDENTS WILL BE BUSSED TO TSTC AND BACK TO THEIR CAMPUS.

Digital Fundamentals Semesters: 1
TSTC—CETT 1325 (Spring) Credits: 1 (HS) & 3 (College)
Grade Level: 12
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
An entry-level course in digital electronics covering number systems, binary mathematics, digital codes, logic gates, Boolean algebra, Karnaugh maps, and combinational logic. Emphasis on circuit logic analysis and troubleshooting digital circuits. Includes asynchronous and synchronous logic as utilized in various decoders, registers, adders, and other digital computer circuits. Hands-on circuit implementation techniques are also covered. 3 credit hours.
DUAL credit for: Digital Electronics (DIGELC) (PEIMS #: 13037600)
NOTE: STUDENTS WILL BE BUSSED TO TSTC AND BACK TO THEIR CAMPUS.

Medical Software and Hardware Semesters: 1
TSTC—BIOM 1373 (Fall) Credits: 1 (HS) & 3 (College)
Grade Level: 12
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
Overview of common medical equipment software, hardware, and operating system maintenance. 3 credit hours.
DUAL credit for: Digital Image Processing (DGIP) (PEIMS #: N1303766)
NOTE: STUDENTS WILL BE BUSSED TO TSTC AND BACK TO THEIR CAMPUS.

Applied Biomedical Equipment Technology Semesters: 1
TSTC—BIOM 1309 (Spring) Credits: 1 (HS) & 3 (College)
Grade Level: 12
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
Introduction to biomedical instrumentation as related to anatomy and physiology. Detailed coverage of anatomical systems that use medical equipment for monitoring, diagnosis, and treatment.
3 credit hours.
DUAL credit for: Solid State Electronics (SOSTELEC) (PEIMS #: 13036900)
NOTE: STUDENTS WILL BE BUSSED TO TSTC AND BACK TO THEIR CAMPUS.

Transportation, Distribution, and Logistics Program of Study

Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

Principles of Transportation Systems Semesters: 2
(PRINTRSY) (PEIMS #:13039250) Credit: 1
Grade Level: 9
Prerequisite: None
In Principles of Transportation Systems, students will 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 transportation industry. Students should apply knowledge and skills in the application, design, and production of technology as it relates to the transportation 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.

Automotive Basics Semesters: 2
(AUTOBASC) (PEIMS #:13039550) Credit: 1
Grade Level: 10
Prerequisite: None
Automotive Basics includes knowledge of the basic automotive systems and the theory and principles of the components that make up each system and how to service these systems. Automotive Basics includes applicable safety and environmental rules and regulations. In Automotive Basics, students will gain knowledge and skills in the repair, maintenance, and servicing 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 safety, tool identification, proper tool use, and employability.
NOTE: APPROPRIATE SAFETY CLOTHING MUST BE WORN AT ALL TIMES WHEN EXPOSED TO ANY AUTOMOTIVE MATERIAL, TOOLS AND EQUIPMENT IN THE LAB.

Basic Collision Repair and Refinishing Semesters: 2
(BASCOLRR) (PEIMS #13039750) Credit: 1
Grade Level: 10
Prerequisites: Principles of Transportation Systems
Basic Collision Repair and Refinishing includes knowledge of the processes, technologies, and materials used in the reconstruction of vehicles. This course is designed to teach the concepts and theory of systems related to automotive collision repair and refinishing.
NOTE: APPROPRIATE SAFETY CLOTHING MUST BE WORN AT ALL TIMES WHEN EXPOSED TO ANY AUTOMOTIVE MATERIAL, TOOLS AND EQUIPMENT IN THE LAB.

Automotive Technology I: Maintenance and Light Repair Semesters: 2
(AUTOTEC1) (PEIMS #:13039600) Credits: 2
Grade Level: 11
(Block Schedule Course)
Prerequisite: Automotive Basics
The purpose of this course is to provide students with specific job training for employment as an auto service technician. Instruction includes engine repair, automatic transmissions and transaxles, manual drive trains and axles, suspension and steering, brakes, electrical and electronic systems, heating and air conditioning and engine performance. Business skills, safety, leadership and career opportunities are included.

Collision Repair/Lab Semesters: 2
(COLLISRR) (PEIMS #: 13039800) Credits: 2
Grade Level: 11
(Block Schedule Course)
Prerequisite: Basic Collision Repair and Refinishing
This course is designed for those students that wish to pursue a career in the Auto Collision industry. They will develop the necessary skills required for vehicle surface preparation for repainting, basic repair techniques for sheet metal repair, welding and plastic repair procedures. They will learn proper use of equipment and tools relating to auto body reconditioning. Students will develop good craftsmanship and learn teamwork.
NOTE: APPROPRIATE SAFETY CLOTHING MUST BE WORN AT ALL TIMES WHEN EXPOSED TO ANY AUTOMOTIVE MATERIAL, TOOLS AND EQUIPMENT IN THE LAB.

Diesel Equipment Technology I Semesters: 2
(DIEQTEC1) (PEIMS #:13040150) Credits: 2
Grade Level: 11
(Block Schedule Course)
Prerequisite: Automotive Basics
Diesel Equipment Technology I includes knowledge of the function and maintenance of diesel systems. Rapid advances in diesel technology have created new career opportunities and demands in the transportation industry. This course provides the knowledge, skills, and technologies required for employment in transportation systems.
NOTE: APPROPRIATE SAFETY CLOTHING MUST BE WORN AT ALL TIMES WHEN EXPOSED TO ANY AUTOMOTIVE MATERIAL, TOOLS AND EQUIPMENT IN THE LAB.

Automotive Technology II: Automotive Service Semesters: 2
(AUTOTEC2) (PEIMS #:13039700) Credits: 2
Grade Level: 12
(Block Schedule Course)
Prerequisite: Automotive Technology I
This course will offer more advanced and in depth study of the topics covered in Automotive Technology I. Students will learn to safely diagnose and repair engine performance problems as well as problems in the electrical system, steering and suspension and brake systems. The students will apply skills they have learned in the laboratory through the use of up to date automobile equipment.
NOTE: APPROPRIATE SAFETY CLOTHING MUST BE WORN AT ALL TIMES WHEN EXPOSED TO ANY AUTOMOTIVE MATERIAL, TOOLS AND EQUIPMENT IN THE LAB.

Paint and Refinishing Semesters: 2
(PAINTREF) (PEIMS #13039900) Credits: 2
Grade Level: 12
(Block Schedule Course)
Prerequisites: Collision Repair/Lab
Students will identify and replace sheet metal components through welding and plastic repair technology. Frame analysis and damage repair, advanced painting procedures and auto damage estimating. Interior panel replacement and glass service and removal. Develop speed and good craftsmanship for entry level employment.
NOTE: APPROPRIATE SAFETY CLOTHING MUST BE WORN AT ALL TIMES WHEN EXPOSED TO ANY AUTOMOTIVE MATERIAL, TOOLS AND EQUIPMENT IN THE LAB.

Diesel Equipment Technology II Semesters: 2
(DIEQTEC2) (PEIMS #:13040160) Credits: 2
Grade Level: 12
(Block Schedule Course)
Prerequisite: Diesel Equipment Technology I
Diesel Equipment Technology II includes knowledge of the function, diagnosis, and service of diesel equipment systems. Rapid advances in diesel technology have created new career opportunities and demands in the transportation industry. This course provides the advanced knowledge, skills, and technologies required for employment in transportation systems.
NOTE: APPROPRIATE SAFETY CLOTHING MUST BE WORN AT ALL TIMES WHEN EXPOSED TO ANY AUTOMOTIVE MATERIAL, TOOLS AND EQUIPMENT IN THE LAB.

Shop Practices Semesters: 1
TSTC—AERM 1203 (Fall) Credits: 1 (HS) & 2 (College)
Grade Level: 11
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
An introduction to shop safety; the correct use of hand tools, equipment, and precision measurement, identification of aircraft hardware, and the fabrication of fluid lines and tubing. Emphasis on procedures for testing, heat treating, and inspection of aircraft structures.
DUAL credit for: Occupational Safety & Environmental Technology I
(OSET1) (PEIMS #: N1303680)
NOTE: STUDENTS WILL BE BUSSED TO TSTC AND BACK TO THEIR CAMPUS.

Aviation Science Semesters: 1
TSTC—AERM 1315 (Spring) Credits: 1 (HS) & 3 (College)
Grade Level: 11
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
Fundamentals of mathematics, physics, and drawing as they apply to aircraft principles and operations as required by the Federal Aviation Administration for airframe and power plant mechanics.
DUAL credit for: Aircraft Airframe Technology (13039400) (PEIMS #: AIRAFTEC)
NOTE: STUDENTS WILL BE BUSSED TO TSTC AND BACK TO THEIR CAMPUS.

Federal Aviation Regulations Semesters: 1
TSTC—AERM 1208 (Fall) Credits: 1 (HS) & 2 (College)
Grade Level: 11
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
A course in the use and understanding of the Federal Aviation Administration (FAA) and aircraft manufacturers' publications, forms and records; and the exercise of mechanic privileges within prescribed limitations.
DUAL credit for: Aircraft Airframe Technology (13039400) (PEIMS #: AIRAFTEC)
NOTE: STUDENTS WILL BE BUSSED TO TSTC AND BACK TO THEIR CAMPUS.

Ground Operations Semesters: 1
TSTC—AERM 1210 (Fall) Credits: 1 (HS) & 2 (College)
Grade Level: 12
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
An introductory course in fuels, servicing methods, safety procedures, aircraft movement, securing and operations of aircraft, external power equipment, aircraft cleaning and corrosion control.
DUAL credit for: Aviation Maintenance
(TBD) (PEIMS #: TBD)
NOTE: STUDENTS WILL BE BUSSED TO TSTC AND BACK TO THEIR CAMPUS.

Weight & Balance Semesters: 1
TSTC—AERM 1205 (Spring) Credits: 1.5 (HS) & 2 (College)
Grade Level: 12
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
An introduction to Federal Aviation Administration (FAA) required subjects relating to the weighing of aircraft, the performance of weight and balance calculations and appropriate maintenance record entries.
DUAL credit for: Practicum in Transportation System/Extended Practicum
(TEXPRTRS1) (PEIMS #: 13040455)
NOTE: STUDENTS WILL BE BUSSED TO TSTC AND BACK TO THEIR CAMPUS.

Basic Electricity Semesters: 1
TSTC—AERM 1414 (Spring) Credits: 1.5 (HS) & 4 (College)
Grade Level: 12
Prerequisite: Counselor Approval, Application to TSTC-Harlingen
A study of aircraft electrical systems and their requirements including the use of ammeter, voltmeter, and ohmmeter; series and parallel circuits; inductance and capacitance; magnetism; converting alternating current (AC) to direct current (DC); controlling devices; maintenance and servicing of aircraft batteries; and reading and interpreting aircraft electrical diagrams to include solid state devices and logic functions. Fundamentals of safety also addressed.
DUAL credit for: Practicum in Transportation System/Extended Practicum
(TEXPRTRS1) (PEIMS #: 13040455)
NOTE: STUDENTS WILL BE BUSSED TO TSTC AND BACK TO THEIR CAMPUS.

HCISD Life Skills Program

These courses require approval of the ARD Committee.

Course Name	Credit-Course	Course #	PEIMS Code	Course Description
Other Credits				
Daily Living 2-Foods 1	1	92HF09	9LCDL02T	These courses provide individualized instruction for acquiring skills for daily living including: nutrition, food preparation, safety and emergency procedures, and personal health issues (hygiene, grooming, dressing, and communicating with health care professionals). Instruction will focus on independent living skills that will facilitate progress in the IEP. ADL IV can be repeated until a student meets graduation requirements or exceeds age eligibility for special education services.
Daily Living 3	1	93HF09	9LCDL03T	
Daily Living 4	1	94HF09	9LCDL04T	
Daily Living 5	1	95HF09	9LCDL05T	
Interpersonal Skills 3	1	93HI09	9LCIS03T	These courses provide individualized instruction for acquiring skills in working cooperatively, initiating socially acceptable physical contact with familiar and unfamiliar people, personal space, respecting authority, conflict resolution, and personal responsibility. Instruction will focus on social interactions that will facilitate progress in the IEP. Interpersonal Skills IV can be repeated until a student meets graduation requirements or exceeds age eligibility for special education services.
Interpersonal Skills 4	1	94HI09	9LCIS04T	
Interpersonal Skills 5	1	95HI09	9LCIS05T	
Life Management 1 T	1	91LM09	9LCLM01T	These courses provide direct teaching, training, and reinforcement of specific skills needed for social emotional competencies. Lessons and materials focus on developing the interpersonal social, emotional, communication, and problem-solving skills needed for students to make progress in the IEP.
Life Management 2 T	1	92LM09	9LCLM02T	
Life Management 3 T	1	93LM09	9LCLM03T	
Life Management 4 T	1	94LM09	9LCLM04T	
Life Management 5 T	1	95LM09	9LCLM05T	
Neighborhood Exp. 1 T	1	91NE09	9LCNE01T	These courses provide individualized instruction as identified in the IEP in mobility within the neighborhood community via written instructions and maps. Use of neighborhood resources such as the post office, bank, library, recycling plant, and local stores will also be explored. Neighborhood Experiences IV can be repeated until a student meets graduation requirements or exceeds age eligibility for special education services.

Neighborhood Exp. 2 T	1	92NE09	9LCNE02T	
Neighborhood Exp. 3 T	1	93NE09	9LCNE03T	
Neighborhood Exp. 4 T	1	94NE09	9LCNE04T	
Neighborhood Exp. 5 T	1	95NE09	9LCNE05T	
Vocational Training				
Pre-Voc Work Train 1 T	2	91PW09	9LCPW01T	This course helps students transition from junior high to high school and facilitate progress in the social skills identified in the IEP that are necessary for the world of work. Emphasis is also placed on career exploration and independent living skills. (PAES Lab)
Pre-Voc Work Train 2 T	2	92PW09	9LCPW02T	
Pre-Voc Work Train 3 T	2	93PW09	9LCPW03T	
Pre-Voc Work Train 4 T	2	94PW09	9LCPW04T	
Pre-Voc Work Train 5 T	2	95PW09	9LCPW05T	
Community Based Instruction (CBI) T	3	96CB09	9LCCB06T	This course is designed to meet the Transition IEP goal in the area of Community Experiences. It is taught in a community setting and will support students' progress toward their individualized post-secondary goals as identified by the IEP and transition plan. This class can be repeated until a student meets graduation requirements or exceeds age eligibility for special education services.
Community Based Voc. Instr. (CBVI) T	3	97CB09	9LCCB07T	This course is designed to meet the Transition IEP goal in the area of Employment. It is taught in a community setting and will support students' progress toward their individualized post-secondary goals as identified by the IEP and transition plan. This class can be repeated until a student meets graduation requirements or exceeds age eligibility for education services.
Community Based Indep.Living 1 T	1	91IL09	9LCIL01T	This course is designed to meet the Transition IEP goal in the area of Daily/Adult living. It is taught in a community setting and will support students' progress toward their individualized post-secondary goals as identified by the IEP and transition plan. This class can be repeated until a student meets graduation requirements or exceeds age eligibility for special education services.

Community Based Indep.Living 2 T	1	92IL09	9LCIL02T	
Community Based Indep.Living 3 T	1	93IL09	9LCIL03T	
Community Based Indep.Living 4 T	1	94IL09	9LCIL04T	
Community Based Indep.Living 5 T	1	95IL09	9LCIL05T	
Vocational Training				
COMMUNITY BASE Train 1	3	91C009	9LCCB1XV	Eligible students are classified as junior and 16 years old. Four blocked periods will allow the student to receive local credit (1 credit per semester). Students must be employed for 15 hours per week to receive credit. The work schedule must be approved by the Vocational Adjustment Teacher. Students will attend school half day.
COMMUNITY BASE Train 2	3	92C009	9LCCB2XV	Eligible students are classified as senior and have completed CBE I. Four blocked periods will allow the student to receive local credit (1 credit per semester). Students must be employed for 25 hours per week to receive credit. The work schedule must be approved by the Vocational Adjustment Teacher. Students will attend school half day.
COMMUNITY BASE Train 3	3	93C009	9LCCB2XV	Eligible students are classified as senior and have completed CBE I or II. Eight blocked periods will allow the student to receive local credit (3 credits per semester). Students must be employed for 30 hours per week to receive credit. The work schedule must be approved by the Vocational Adjustment Teacher. Students may attend school for one period.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