



Floresville High School

Graduation Planning Guide

2024-2025



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Courses listed are in accordance with FISD local policy and the student handbook.

This catalog contains course descriptions.

All courses listed may not be offered at Floresville High School next year due to personnel, space requirements, and student requests.

Introduction

Information contained in this guide is to be used to assist students, parents and school personnel in planning educational programs to meet the needs and interests of Floresville High School.

For each course, the catalog provides the title and number of the course, grade placement, credit value, prerequisites, and a brief description of the content. Additional sections of the catalog contain a summary of Floresville High School graduation requirements, grade classification requirements, and a sample Four Year Plan.

Floresville High School operates under a 2-Semester 5x5 plan. There are two semesters per school year: Fall semester 1 and Spring semester 2. Students can earn up to 5 credits per semester and as many as 10 credits per year. Semester courses earn 1/2 credit per half semester and one full credit by the end of the semester. To receive the full credit, the student must earn a grade of 70 or higher in the course and meet all attendance requirements.

Dual Credit guidelines:

The Dual Credit Academic program is partnered with Coastal Bend College. FISD is paying the Registration Fee of \$48 per term and the annual Dual Credit fee of \$25. Tuition, internet and course fees are paid by the parent directly to Coastal Bend College. Students who are eligible as verified by Coastal Bend College for the Financial Aid for Swift Transfer Program may take dual credit courses at no cost. Courses offered at FISD can be found under the Dual Credit Section in each content area and the Online Dual Credit section of this guide.

Financial Aid for Swift Transfer Program (FAST) eligibility:

1. are enrolled in an eligible dual credit course at a public school district or charter school (i.e., eligible for Foundation School Program funding); and
2. are taking a course offered through an institutional agreement, as outlined in 19 Texas Administrative Code (TAC), Section 4.84, from an institution of higher education (IHE) that has opted to participate in FAST; and
3. were students who met the criteria for educationally disadvantaged, as defined under Texas Education Code (TEC), Section 5.001(4), in any of the four school years prior to the academic year in which the student is enrolled in the eligible dual credit course.

Alamo Academies are free to students and include no fees. See Alamo Academies section of the guide for information on all five academies offered.

How many Dual Credit courses can I take?

- Fall or Spring Semester: Allowed to take up to 5 courses (up to 15 hours) a Fall or Spring semester. {More than 15 hours students must submit a form for excessive hours.}
- Summer Semesters: 2 courses per summer semester for a possible total of 4 courses. (2 for Summer 1 and 2 for Summer 2)

Dual Credit Grading Guidelines:

Dual Credit courses will be a numeric grade for GPA. Courses are weighted 1.1 (110%) with the exception of EDUC 1300-Learning Frameworks, it will be a numeric non-weighted course for GPA. Please reference the college grading policies in the [Coastal Bend](#) and [Alamo Colleges](#) Student Handbooks.

FHS offers both teacher-lead dual credit classes and completely online dual credit classes. All teacher-led dual credit classes offered will be included in subject area sections of the catalog. All online will be listed in only the online dual credit section.

Students and parents are responsible for knowing the requirements for graduation. Any questions should be addressed to the Counseling Department or Academic Dean.

ACADEMIC INFORMATION

ACADEMIC LOAD

Students will be enrolled in 5 classes per semester.

GRADE CLASSIFICATION

FHS grade classification will be determined at the end of each semester. FHS classification will be determined by credits earned in successfully completed core and elective courses. Students must also meet the State attendance requirement to receive credit.

EARLY GRADUATION

FHS students who wish to graduate early must meet with their counselor and submit an Early Graduation Application. To be considered for early (3-year) graduation, this completed application must be returned to the student's counselor no later than the last day of the student's sophomore year. To be considered for mid-year graduation, this completed application must be returned to the student's counselor no later than the last day of the student's junior year. More information can be found in the student handbook or in the counseling office.

HOME SCHOOL

Any student who has been homeschooled and wants to enroll on any Floresville ISD campus must contact the campus on which he/she wishes to enroll. Before recognizing credit in a course earned in an accredited or non-accredited home school, appropriate personnel shall evaluate a student's records and transcript. FHS may require the student to demonstrate mastery of the content through the use of content-based exams or FHS may use alternative methods to verify course content for the award of credit in accordance with FISD Board Policy.

A student enrolling in FHS from a non-accredited home school shall be placed initially at the discretion of the principal, pending observation by classroom teachers, guidance personnel, and the principal. Criteria for placement may include:

1. Scores on achievement or content area tests, which may be administered by appropriate FHS personnel.
2. Prior academic record.
3. Chronological age and social and emotional development of the student.
4. Other criteria deemed appropriate by the principal.

SCHEDULE CHANGES

Any student-initiated schedule change must be completed by the deadline provided by the counselors. The principal or designee must approve other schedule changes within the first 10 days of school and only in the case of improper academic placement in a course.

Schedule Change Guidelines

Only schedules that meet the following criteria will be considered for changes:

- A change is needed to balance a class size.
- Seniors not enrolled in a course REQUIRED for graduation.
- Students scheduled in a course for which they already have credit.
- Student is enrolled in a course for which the student does not have the prerequisite.
- Student has an incomplete schedule.
- Students enrolled/not enrolled in an application/audition course for which they were approved.
- Student has failed a course and needs to repeat the course.
- Change is needed as a result of a credit earned in summer school.

GRADING SYSTEM

A = 90 – 100 | B = 80 - 89 | C = 75 – 79 | D = 70 - 74 | F = 69 or Below

DAEP AND ACADEMIC COURSES

If a student is taking dual credit courses and is sent to Alternative School, the student will continue to abide by the dual credit course requirements and use their district device for continued attendance.

If a student is sent to Alternative and is taking a course that is not offered at Alternative School (i.e., Band) another course will be substituted.

Foundation High School Program (FHSP) 22 Credits	FHSP + Endorsements 26 Credits	FHSP + Endorsements Distinguished Level of Achievement 26 Credits
English – 4 credits English I, II, III, IV	English – 4 credits English I, II, III, IV	English - 4 credits English I, II, III, IV
Math – 3 credits Algebra 1, Geometry *One additional Math credit (Math Models, Algebra 2, Pre-calculus, Honors, Statistics, Financial Math)	Math – 4 credits Algebra 1, Geometry *Two additional Math credit (Math Models, Algebra 2, Pre-calculus, Honors, Statistics, Financial Math)	Math – 4 credits Algebra 1, Geometry, Algebra II *One additional Math credit (Math Models, Algebra 2, Pre-calculus, Honors, Statistics, Financial Math)
Science – 3 credits Biology and Chemistry **One additional Science credits (IPC, Physics, Anatomy & Physiology, Forensic Science, Aquatic Science)	Science – 4 credits Biology, IPC and/or Chemistry **One/Two additional Science credits (IPC, Physics, Anatomy & Physiology, Forensic Science, Aquatic Science)	Science – 4 credits Biology, IPC and/or Chemistry **One/Two additional Science credits (IPC, Physics, Anatomy & Physiology, Forensic Science, Aquatic Science)
Social Studies – 3 credits World Geography or World History, U.S. History, Government/Economics	Social Studies – 3 credits World Geography or World History, U.S. History, Government/Economics	Social Studies – 3 credits World Geography or World History, U.S. History, Government/Economics
Languages other than English – 2 credits Spanish 1 & Spanish 2	Languages other than English – 2 credits Spanish 1 & Spanish 2	Languages other than English – 2 credits Spanish 1 & Spanish 2
***Fine Arts – 1 credit (Art, Band, Theater Arts, Floral, Dance)	***Fine Arts – 1 credit (Art, Band, Theater Arts, Floral, Dance)	***Fine Arts – 1 credit (Art, Band, Theater Arts, Floral, Dance)
****Physical Education – 1 credits (PE, Athletics, ROTC, Band, Dance, Cheer)	****Physical Education – 1 credits (PE, Athletics, ROTC, Band, Dance, Cheer)	****Physical Education – 1 credits (PE, Athletics, ROTC, Band, Dance, Cheer)
Electives – 5 credits	Electives – 7 credits	Electives – 7 credits

Endorsements

Arts & Humanities	Business & Industry	Public Service	STEM	Multidisciplinary Studies
Fine Arts Art, Theater Arts and Band Social Studies total of 5 courses	<ul style="list-style-type: none"> • Agricultural Technology and Mechanical Systems • Animal Science • Plant Science • Networking Systems • Culinary Arts • Welding • Automotive & Collision Repair • Digital Communications • Graphic Design & Interactive Media • Cybersecurity 	<ul style="list-style-type: none"> • Teaching & Training • Diagnostic & Therapeutic Services • Exercise Science, Wellness, & Restoration • JROTC 	<ul style="list-style-type: none"> • Cybersecurity (only if math & science requirements are met) • Math - Complete a total of 5 Math credits by completing: <ol style="list-style-type: none"> a. Algebra 1, Geometry, and Algebra 2. b. Any two additional math courses in which Algebra 2 is a prerequisite. • Science - Complete a total of 5 science credits by completing: <ol style="list-style-type: none"> a. Biology, Chemistry, and Physics. b. Any two additional 	Complete four credits in each of the four-foundation high school subject areas.

State Assessments Required for Graduation (EOC)	Performance Acknowledgements
English 1 (9th grade) Algebra 1 (9th grade) Biology (9th grade)	Outstanding performance can be earned: <ul style="list-style-type: none"> • Earning a business or industry certification/license • AP Test, PSAT, ACT, the SAT • Bilingualism and bi-literacy • Dual credit courses

Business and Industry Endorsement Options

Program of Study	Level 1 Course	Level 2 Course	Level 3 Course	Level 4 Course
Agricultural Career Cluster				
Animal Science^	Principles of Agriculture, Food, and Natural Resources (1)	Small Animal (0.5) AND Equine Science (0.5)	Livestock Production/Lab (1)	Advanced Animal Science* (1) or Practicum in AFNA (2) or Vet Med App/Lab* (1)
				(986) Elanco Fund. of Animal Science (987) Elanco Veterinary Medical Applic.
Agricultural Technology & Mechanical Systems	Principles of Agriculture, Food, and Natural Resources (1)	Agriculture Mechanics and Metal Technologies (1)	Agriculture Structures Design and Fabrication (1) or Agricultural Power Systems* (2)	Practicum of AFNR (2)
			(340) AWS D1.1 Structural Steel (350) AWS D9.1 Sheet Metal Welding	
Plant Science	Principles of Agriculture, Food, and Natural Resources (1)	Greenhouse Operation & Production (1)	Floral Design* (1) or Horticulture Science (1)	Advanced Floral Design* (1) or Practicum in AFNR (2)
			(812) TSFA Knowledge Based Floral Cert. (740) Principles of Floral Design	(813) TSFA Level 1 (841) TSFA Level 2
Arts, Audio/Video Technology, and Communications Career Cluster				
Digital Communications	Principles of Arts, A/V Technology, & Communication (1)	Audio/Video Production I/Lab (2)	Audio/Visual Production II/Lab* (2)	Practicum in Audio/Visual Production* (2)
			(17,18) Adobe Certified Pro (multiple options)	(17,18) Adobe Certified Pro (multiple options)
Graphic Design & Interactive Media	Principles of Arts, A/V Technology, & Communication (1)	Commercial Photography I/Lab (2)	Commercial Photography II/Lab* (2)	Practicum in Commercial Photography* (2)
			(17,18) Adobe Certified Pro (multiple options)	(17,18) Adobe Certified Pro (multiple options)
Hospitality and Tourism Career Cluster				
Culinary Arts	Introduction to Culinary Arts (1)	Culinary Arts (2)	Advanced Culinary Arts* (2)	Practicum in Culinary Arts (2)
			(811) ServSafe Manager	
Science, Technology, Engineering and Mathematics Career Cluster				
Cybersecurity	Principles of Information Technology (1)	Computer Maintenance/Lab* (2)	Networking/Lab* (2)	Practicum in Information Technology (2)
		(481) CompTIA IT Fundamentals	(490) CompTIA Network+	(500) CompTIA Security+
Manufacturing Career Cluster				
Welding	Introduction to Welding* (1)	Welding I* (2)	Welding II* (2)	Practicum in Manufacturing* (2)
	(340) AWS D1.1 Structural	(350) AWS D9.1 Sheet Metal (340) AWS D1.1 Structural	(100) API 1104: Welding Pipelines (350) AWS D9.1 Sheet Metal	(100) API 1104: Welding Pipelines
Transportation, Distribution and Logistics Career Cluster				
Automotive and Collision Repair	Principles of Transportation Systems (1)	Automotive Basics* (1)	Automotive Technology I: Maintenance & Light Repair* (2)	Practicum in Transportation Systems* or Automotive Technology II: Automotive Service (2)
				ASE Entry level. (multiple options) (191,141,151,161,171,182)

Public Service Endorsement Options

Program of Study	Level 1 Course	Level 2 Course	Level 3 Course	Level 4 Course
Education and Training Career Cluster				
Teaching & Training	Principles of Education & Training (1)	Human Growth & Development (1)	Instructional Practices (2)	Practicum in Education & Training* (2)
				(511) Educational Aide 1
Health Science Career Cluster				
Diagnostic & Therapeutic Services	Principles of Health Science (1)	Medical Terminology (1)	Health Science Theory/Health Science Clinical (2)	Practicum in Health Science* (2)
				(470) Certified Clinical Medical Assistant
Exercise Science, Wellness & Restoration	Principles of Exercise Science & Wellness (1)	Kinesiology (1)	Anatomy & Physiology (1) or Kinesiology II (1)	Project Based Research (1)
				(401) Certified Personal Trainer

Key: ^ Programs of Study that can also earn a STEM Endorsement as long as the appropriate Math & Science requirements are met.
 * Course in which an IBC could be earned.

Note: The numbers within the () indicate the number of credits received for passing the course.

Key: ^ Programs of Study that can also earn a STEM Endorsement as long as the appropriate Math & Science requirements are met. **Note:** The numbers within the () indicate the number of credits received for passing the course
 * Course in which an IBC could be earned.

Arts & Humanities Endorsement Options

Pathway	Grade 9	Grade 10	Grade 11	Grade 12
Band	Band I	Band II	Band III	Band IV
Art	Art I	Art II	Additional Art	Additional Art
Theatre Arts	Theatre Arts I	Additional Theater	Additional Theater	Additional Theater
Social Studies - 5 courses (additional course taken before graduation)	World Geography	World History	U.S. History	U.S Government/ Economics

STEM Endorsement Options

Pathway	Grade 9	Grade 10	Grade 11	Grade 12
Math-5 courses (additional course taken before graduation)	Algebra I (or taken in 8th grade)	Geometry	Algebra II	Additional math
Science-5 courses (additional course taken before graduation)	Biology	Chemistry or IPC	Additional science	Additional science

Public Service Endorsement Option

Pathway	Grade 9	Grade 10	Grade 11	Grade 12
JROTC	JROTC I	JROTC II	JROTC III	JROTC IV

COLLEGE READINESS

TSIA2-Texas Success Initiative: High school students who wish to enroll in college level courses must meet TSI standards showing basic college readiness in reading, writing and mathematics. These standards have been set for the assessments listed below and must be met in order to take college level course work at any Texas public higher education institution.

TSIA2

- Sophomores and juniors.
The purpose of the TSI exam is to provide useful information about academic skills in English and math. The results of the assessment are used to determine dual credit course selection. The qualifying scores are set by the college.

STAAR/EOC-State of Texas Assessment of Academic Readiness/End-of-Course

- Students who enter the 9th grade in 2011-12 and thereafter will take the State of Texas Assessments of Academic Readiness (STAAR). To be eligible to graduate, they will have to pass End-of-Course tests in English I&II, Algebra I, Biology, and US History.

PSAT/NMSQT-Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifying Test

- Sophomores and juniors are eligible to take this test, which is offered in October. **ONLY JUNIORS ARE ELIGIBLE FOR NATIONAL MERIT SCHOLARSHIP CONSIDERATION.**
- The PSAT/NMSQT covers mathematics, reading, and writing.
- The PSAT/NMSQT is great practice for the SAT.

SAT (Scholastic Aptitude Test)

- The SAT is one of two entrance exams required by most four- year colleges and universities.
- The SAT is typically taken by juniors and seniors and may be admission taken multiple times.
- The SAT measures critical thinking skills and includes three sections: critical reading, mathematics, and writing. Each is scored on a scale of 200-800.
- The SAT is administered several times per year in the U.S scored

SAT Subject Tests

- The SAT Subject Tests are designed to measure knowledge and skills in a particular content area.
- Many colleges use the Subject Tests for to a particular degree program and for course placement.
- Subject Tests are offered in five general areas: English, history and social studies, languages, mathematics, and science. Each section is on a scale of 200-800.
- The SAT subject tests are administered several times per year in the U.S.

ACT-American College Test

- The ACT is one of two entrance exams required by most four-year colleges and universities.
- The ACT is typically taken by juniors and seniors and may be taken multiple times.
- The ACT assesses general educational development and covers four skill areas: English, mathematics, reading, and science. **THE WRITING TEST IS OPTIONAL, BUT MANY COLLEGES AND UNIVERSITIES NOW REQUIRE IT FOR STUDENTS SUBMITTING ACT SCORES.**
- Scores range from 1-36 on each section; an overall composite score of 1-36 is then given.
- The ACT is administered several times per year in the U.S.
Price and Registration: Costs are subject to change. Students can register on-line at www.act.org or by mail (registration is required approximately six weeks in advance of each test date). Information and test prep materials are available on-line or in the Counselor's Office.

ACT-American College Test

- The ASVAB is the most widely used multiple-aptitude test battery in the world.
- Students planning a career in the military should take the ASVAB, but the test assesses academic eligibility and predicts success in a wide variety of occupations for all students.
- All students are eligible to take this test.
Price and Registration: Free. Students should sign up in the Counselor's Office.

Alamo College Academy Programs

11th grade students are eligible to participate in a 2-year Alamo Academy program. Classes are from 7:30-10:00 a.m. Monday- Friday. FHS will provide transportation and cover the cost of textbooks as long as funding is available. Participating students will need to board the bus each morning at approximately 6:00 a.m. at FHS. To be eligible, students must complete the application process during their 10th grade year and demonstrate College Readiness through Texas Success Initiative (TSI), ACT, SAT or any other placement scores set by Alamo Colleges.

The following programs are available:

Health Professions Academy – will earn 10.5 high school credits have 9 college courses, 30 college credit hours, and has post-secondary opportunities to earn Associates of Applied Science (AAS)

Information Technology and Security Academy — will earn 10 high school credits, 9 college courses, has summer internship, 30 college credit hours, and has post-secondary opportunities to earn Associates of Applied Science (AAS).

Advanced Technology and Manufacturing Academy – will earn 13 high school credits, 11 college courses, has summer internship, 34 college credit hours, and has post-secondary opportunities to earn Associates of Applied Science (AAS).

Diesel Technology Academy – will earn 12 high school credits, 9 college courses, has summer internship, 33 college credit hours, and has post-secondary opportunities to earn Associates of Applied Science (AAS).

Aerospace Academy – will earn 17 high school credits, 12 college courses, has summer internship, 32-33 college credit hours, and has post-secondary opportunities to earn Associates of Applied Science (AAS).

Information Technology and Security Academy				
Program of Study	IHE Partner	Expected Student Outcomes		
Information Technology & Security	Alamo College District: San Antonio College	Grade 11	Level 1 Certificate	Computer Desktop Support Technician
		Grade 12	Level 1 Certificate	Information Technology & Security
		Post HS Grad	Year 5: Associate of Applied Science (A.A.S)	Computer Information Systems

High School Courses					Post-Secondary Courses		
Grade	Semester	HS Course	HS Credit	CTE Level	College Course	College Credits	TSI & Prerequisite
8	Summer	Summer TSI Bootcamp					
9	Fall or Spring	Principles of Information Technology	1	1			
10	Fall or Spring	Computer Maintenance Lab	2	2			Principles of Info Tech.
11	Fall	Networking & Computer Maintenance	2	2	ITSC 1305: Intro to PC Operating Systems ITSC 1425: Personal Computer Hardware+	7	Computer Maintenance
11	Spring	Computer Technician Practicum	2	2	ITNW 1425: Fundamentals of Networking Technologies+ ITSC 2439: Personal Computer: Help Desk Support	8	
11	Summer	Computer Technician Practicum	2	3	ITSY 2386: Internship: Computer and Information Systems Security	3	
12	Fall	Practicum in Information Tech	2	4	ITSC 1316: Linux Installation & Configuration ITSY 1342: Information Technology Security+	6	
12	Spring	Practicum in Information	2	4	ITSE 1302: Computer Programming ITSE 1311: Beginning Web Programming	6	

Information Technology & Security Academy (ITSA)	Yearlong (36 weeks) Grade 11-12	This program is designed to provide high school students with knowledge and skills in the area of information technology computer security, web development and programming and offers opportunities for paid summer internships with one of the industry partners. Graduates of this program will be prepared
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	Weight 1.1	for entry-level Information Technology positions or for post-secondary information Technology courses of study. **Leads to jobs in Information Technology/ Security & Assurance**
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Aerospace Academy

Program of Study	IHE Partner	Expected Student Outcomes		
Aerospace Academy	Alamo College District: St. Phillips College	Grade 11		Occupational Skills Award/ Aircraft Technology
		Grade 12	Level 1 Certificate	Certificate of Completion Aircraft Structures Mechanic
		Grade 12	Level 1 Certificate	Certificate of Completion Aircraft Turbine Mechanic
		Post HS Graduation	Associate of Applied Science (A.A.S)	Aircraft Technician Airframe / Aircraft Technician Powerplant

*** White rows= both Certificate Paths; Gray= Aircraft Turbine Mechanic; Maroon = Aircraft Structures Mechanic***

High School Courses					Post-Secondary Courses		
Grade	Semester	HS Course	HS Credit	CTE Level	College Course	College Credits	TSI & Prerequisite
8	Summer	Summer TSI Bootcamp					
9 or 10	Fall or Spring	Principles of Transportations Systems	1	1			
11	Fall	Introduction to Aircraft Technology & Occupational Safety and Environment Technology	2	2	AERM 1315: Aviation Science AERM 1303: Shop Practice	6	Prin. of Trans. Systems
11	Spring	Aircraft Airframe Technology & Aircraft Airframe Technology Advanced Transportation Systems Laboratory	4	3	AERM 1205: Weight & Balance AERM 1452: Metallic Structures	6	
11	Spring	Aircraft Powerplant Technology/ Advanced Transportation Systems Laboratory	2	3	AERM 1351: Aircraft Turbine Engine Theory AERM 2351: Aircraft Turbine Engine Overhaul	6	
11	Summer	Practicum in Transportation Systems	2	4	AERM 2486: Internship: Airframe Mechanics and Aircraft Maintenance Technology/ Technician	4	
12	Fall	Practicum in Transportation Systems	2	4	AERM 1414: Basic Electricity AERM 1208: Federal Aviation	6	
12	Spring	Practicum in Transportation Systems	2	4	AERM 1310 Ground Operations AERM 1205: Weight & Balances	5	
12	Spring	Practicum in Transportation Systems	2	4	AERM 1310: Ground Operations AERM 1354: Non-Metallic Structures	6	

Aerospace Academy (AA)	Yearlong (36 weeks) Grade 11-12 Weight 1.1	This program is designed to provide high school students with technical training in airframe and powerplant mechanics from college instructors, with paid summer internships from industry partners. Upon graduation, students will be prepared for jobs in the aerospace industry where they can complete their technical training toward their FAA license. Up to 30 college credit hours are available for a post-secondary course of study. **Leads to jobs as an Aircraft Turbines Mechanic of Aircraft Structures Mechanic*
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Health Professions Academy

Program of Study	IHE Partner	Expected Student Outcomes		
Health Professions Academy (HPA)	Alamo College District: San Antonio College	Post HS Graduation	Associate of Applied Science (A.A.S)	Transferable to Allied Health Career Pathways

High School Courses					Post-Secondary Courses		
Grade	Semester	HS Course	HS Credit	CTE Level;	College Course	College Credits	TSI & Prerequisite
8	Summer	Summer TSI Bootcamp					
9	Fall or Spring	Principles of Health Science	1	1			
10	Fall or Spring	Medical Terminology	1	2			Principles of Health Science
11	Fall	Human Anatomy & Physiology & English 3 DC	2	3	BIOL 2401: Human Anatomy & Physiology 1 ENGL 1301: Composition 1	7	Medical Terminology
11	Spring	Pathophysiology & Freshman Composition 2 DC	2	3	BIOL 2402: Human Anatomy & Physiology 2 ENGL 1302: Composition 2	7	
12	Fall	Medical Microbiology & Psychology	1.5	3	BIOL 2420: Microbiology for Nursing and Allied Health PSYCH 2301: General Psychology	7	
12	Spring	Clinical Ethics & Practicum in Nursing	3	4	PHIL 2306: Introduction to Ethics PSYCH 2314: Lifespan Growth & Development MDCA 1313: Medical Terminology	9	

Health Professions Academy	Yearlong (36 weeks) Grade 11-12 Weight 1.1	This program is designed for students wishing to pursue degrees ranging from nursing and health information systems to respiratory care and invasive cardiovascular technology. The Center for Health Profession has the most advanced human simulation patient facility in the US. It houses a complete radiology systems and surgical site, an 8-bed general hospital suite and a fully functional nursing station. **Leads to jobs in Certified Nursing Assistant, Licensed Vocational Assistant, Licensed Vocational Nurse*
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Diesel Technology Academy

Program of Study	IHE Partner	Expected Student Outcomes		
Diesel and Heavy Equipment (DTA)	Alamo College District: St. Phillips College	Grade 11	Level 1 Certificate	Certificate of Completion: Diesel Heavy Equipment
		Grade 12	Level 1 Certificate	Certificate of Completion Advanced Diesel Heavy Equipment
		Post HS Graduation	Associate of Applied Science (A.A.S)	Diesel/Light to Heavy Truck Technology/ Diesel Construction Equipment Technician

High School Courses					Post-Secondary Courses		
Grade	Semester	HS Course	HS Credit	CTE Level	College Course	College Credits	TSI & Prerequisite
8	Summer	Summer TSI Bootcamp					
9 or 10	Fall or Spring	Principles of Transportation Systems	1	1			
11	Fall	Occupational Safety and Environmental Technology 1 & Diesel Equipment Technology 1	3	2	DERM 1401: Shop Safety & Procedures DERM 1406: Diesel Engines	8	
11	Spring	Diesel Equipment Technology 2	2	2	DERM 1405: Basic Electrical Systems+ DERM 1416: Basic Hydraulics+	8	
11	Summer	Practicum in Transportation Systems	2	4	DERM 2288: Internship: Diesel Mechanics Technology/Technician	4	
12	Fall	Diesel Equipment Technology 2/ Advanced Transportation Systems Laboratory	3	3	DERM 1329: Prevention Maintenance DERM 2432: Electronic Controls	7	
12	Spring	Practicum in Transportation Systems	2	4	DERM 2434: Advanced Diesel Tune-Up and Troubleshooting DERM 2435: Advanced Hydraulics	8	

Diesel Technology Academy (DTA)	Yearlong (36 weeks) Grade 11-12 Weight 1.1	This program is designed to provide a college pathway for high school juniors and seniors to attain Industry and Academic certificates helping to lead to high wage earning jobs or to further their higher education while addressing critical industry workforce needs. **Leads to jobs with State Highway departments, Waste Management, Construction, Holt Cat, and an array of different oil and gas companies)
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Advanced Technology and Manufacturing Academy

Program of Study	IHE Partner	Expected Student Outcomes		
Advanced Technology & Manufacturing Academy	Alamo College District: St. Phillips College	Grade 11	Level 1 Certificate	Certificate of Completion: Industrial Maintenance Assistant
		Grade 12	Level 1 Certificate	Certificate of Completion: Production Tool Operator/ Maintenance Associate
		Grade 12	Level 1 Certificate	Certificate of Completion: Manufacturing Maintenance Associate
		Post HS Grad	Associate of Applied Science (A.A.S)	CNC Manufacturing Technician/ Automated Industrial Process

*** White rows= both Certificate Paths; Gray=Production Tool Operator; Maroon = Manufacturing Maintenance Associate***

High School Courses					Post-Secondary Courses		
Grade	Semester	HS Course	HS Credit	CTE Level	College Course	College Credits	TSI & Prerequisite
8	Summer	Summer TSI Bootcamp					
11	Fall	Principles of Manufacturing & Precision Metal Manufacturing 1 & Occupational Safety and Environmental Technology 1	4	1 2	MCHN 1343: Machine Shop Math MCHN 1270: MSSC & OSHA 10 INMT 2303: Pumps Compressors & Mechanical Drives	8	
11	Spring	Robotics 2 & Metal Fabrication and Machining 1	3	3	RBTC 1305: Robotic Fundamentals MCHN 1438: Basic Machine Shop 1	7	
11	Summer	Practicum in Manufacturing	2	4	MNCH 2486: Internship	4	
12	Fall	Practicum in Manufacturing	2	4	MCHN 1320: Precision Tools & Measurements MCHN 1302: Print Reading for Machining Trade	6	
12	Spring	Practicum in Entrepreneurship	2	4	MCHN 2303: Fundamentals of CNC Machine Controls MCHN 1426: Introduction to CAM	7	
12	Fall	Practicum in Manufacturing	2	4	CETT 1409: DC-AC Circuits ELMT 1305: Basic Fluid Power	7	
12	Spring	Practicum in Entrepreneurship	2	4	INTC 1357: AC/DC Motor Control RBTC 1347: Electromechanical Devices	6	

Advanced Technology and Manufacturing Academy	Yearlong (36 weeks) Grade 11-12 Weight 1.1	This program is designed to provide a college pathway for high school juniors and seniors to acquire the entry-level skills necessary for success in the Advanced Manufacturing profession. **Graduates have also earned a 10-hour OSHA card, Manufacturing Skill Standards Council Certified Production Technician Safety and Quality Certification, Certificate of Completion in Manufacturing Skills Trade Helper, and Certificate of Completion in Tool Operator/Maintenance Assistant.
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Important Terms

Academic Achievement Record (Transcript)

The student's official educational record contains history of all high school courses taken with grades and credit earned. Students may request a copy of their transcript when needed.

[Apply Texas](#)

It is an on-line admissions application to colleges and universities in Texas.

Assessment Calendar

See district website for all testing schedules for the school year.

Correspondence Course

A self-paced study program offered by the University of Texas at Austin or Texas Tech University. The cost of the correspondence course is the responsibility of the student. Counselor approval must be obtained before a student officially enrolls in a correspondence course. The grade received will not be averaged in the student's GPA or weighted numerical average. If the correspondence course is an EOC subject course, then the student will be required to take the EOC exam.

Credit (Unit)

Credits are awarded when a student has fulfilled the state requirements for a designated course. One (1) credit is earned for a full year course. In a semester unit course, the two semester grades are averaged together to determine full credit for the year. One-half (1/2) credit is earned for a semester course that takes a semester to complete. (i.e. government)

[Credit by Examination](#) - Previous Instruction

CBE provides students the opportunity to receive credit in a course they have previously taken but did not receive credit (must have achieved at least a 60 final average or higher on a failed course). Students take an exam for each 1/2 credit of the course. Students must have permission from a school official prior to registering for the exam. Credit by Exam cannot be used to gain or regain eligibility for participation in extracurricular activities. The cost of the exam is the responsibility of the student. The grade received will not be averaged in the student's GPA or weighted numerical average. The minimum passing grade is a seventy (70).

Credit for Acceleration

A CBE provides students the opportunity to receive credit in a course they have never taken previously. Students must have permission from a school official prior to registering for the exam. Students cannot use this exam to gain eligibility for participation in extracurricular activities. The student must achieve a score of "90" or better to gain credit. The grade received will not be averaged in the student's GPA or weighted numerical average.

Dual Credit/Academy Classes

Approved courses that can earn a student both high school and college credit simultaneously. The following criteria must be met prior to registering for dual credit courses: be a junior or senior student, have passed necessary portions of the SAT, ACT, or have met Texas Success Initiative Requirements and the college placement qualifications. Students will attend these courses at FHS and all FISD and college discipline, rules, and policies apply.

Students may be withdrawn from dual credit courses if they are withdrawn from FHS.

Endorsement

Is a series of courses related by the students interests and consisting of a pathway of classes that progressively advance toward an industry certification approved by TEA.

Grade Point Average (GPA)

A cumulative weighted average derived from actual course grades and is expressed numerically

Graduation

Successful completion of all requirements set forth by TEA, including completing STAAR EOC tests to earn a high school diploma.

Honors

Rigorous courses for academically advanced and highly motivated students. Honors courses are weighted. Honors courses are designed to prepare students for dual credit and college level courses.

Local Credit

A credit awarded by the local school district rather than by the Texas Education Agency. These courses are not included in the GPA or weighted numerical average. Local credits do not count toward graduation. High school credit earned while in middle school is not included in GPA.

Pass/Fail Courses

On report cards and transcripts, the student will receive a "P" if passing (70 or above) and an F if failing (69 or below). The course is not figured in the student' GPA or weighted numerical average.

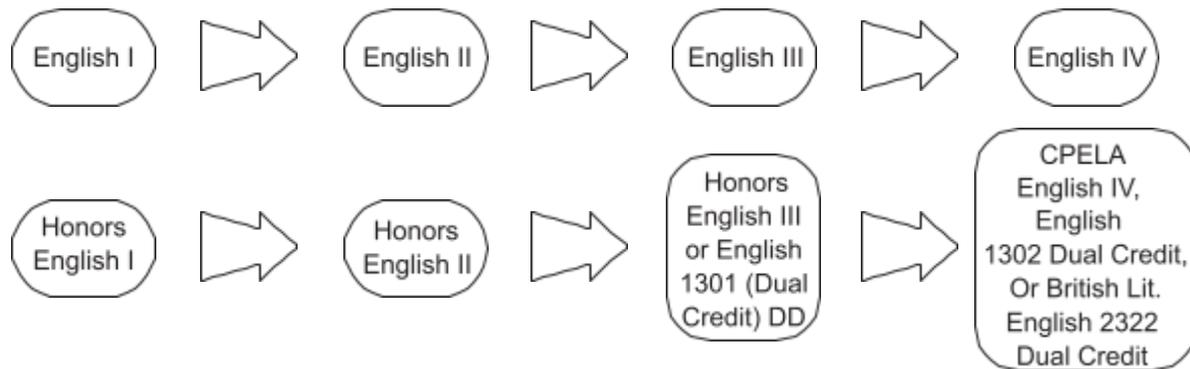
Prerequisite

Requirements a student must fulfill before enrolling in a certain course.

Semester

There are two semesters in a school year: Semester 1 fall and Semester 2 spring.

English Language Arts



English I 03220100

Grade Placement: 9 Prerequisite: None
Semesters: 1, Credit: 1

English I consists of readings in literature which are selected from short stories, biographies, essays, drama, novels, electronic media, and poetry. Literary devices, elements, and techniques will be employed in the analysis of literature. Writing skills are developed through the study of paragraph construction, mastery of spelling and vocabulary development. Research techniques are introduced.

English II 03220200

Grade Placement: 10
Prerequisite: English I Semesters: 1, Credit: 1

English II is designed to enhance the understanding of grammar and vocabulary. Selected and varied types of literature are read, as techniques associated with those readings are practiced. Several different methods of oral and written communication will be required.

English III 03220300

Grade Placement: 11 Prerequisite: English II
Semesters: 1, Credit: 1

English III consists of grammar and vocabulary skills, selected readings in American literature and a variety of critical discourse requiring higher-order thinking skills. Students will become familiar with proper writing skills, literary genre and a structured approach to the discipline of language arts.

English IV 03220400

Grade Placement: 12
Prerequisite: English III Semesters: 1, Credit: 1

English IV consists of grammar and vocabulary skills, selected readings in British literature and a variety of critical discourse requiring higher-order thinking skills. Students will become familiar with proper writing skills, literary genre, and a structured approach to the discipline of language arts.

Honors English I 03220100

Grade Placement: 9
Prerequisite: Reading over breaks will be required.
Semesters: 1, Credit: 1 (Weighted)

Honors English I is designed for the clearly outstanding English student. It consists of an integrated approach to grammar, composition, and literature to create a well-rounded English curriculum with emphasis on higher-level thinking skills. Honors English I is recommended for students preparing for dual credit and college level courses.

Honors English II 03220200

Grade Placement: 10
Prerequisite: Reading over breaks will be required.
Semesters: 1, Credit: 1 (Weighted)

Honors English II is designed for the clearly outstanding English student. It consists of an integrated approach to grammar, composition, and literature to create a well-rounded English curriculum with emphasis on higher-level thinking skills. Honors English II is recommended for students preparing for dual credit and college level courses.

Honors English III 03220300

Grade Placement: 11 Prerequisite: Reading over breaks will be required

Semesters: 1, Credit: 1 (Weighted)

Honors English III is a college prep course designed for the outstanding student who shows maturity and self-discipline. Higher order thinking skills, in-depth critical analysis of American Literature, and extensive writing skills are a focus.

Honors English IV 03220400

Grade Placement: 12 Prerequisite: Reading over breaks will be required Semesters: 1, Credit: 1 (Weighted)

Honors English IV is a college prep course designed for the outstanding student who shows maturity and self-discipline. Higher order thinking skills, in-depth critical analysis of American Literature, and extensive writing skills are a focus.

English I (SOL) 03200600

Grade Placement: 9

Prerequisite: ENG I SOL must be blocked with English Language Development and Acquisition 1 or 2 for beginning language learners or with Reading I Sheltered for intermediate language learners.

THIS COURSE FULFILLS THE ENGLISH I STATE GRADUATION REQUIREMENT.

Semesters: 1, Credit: 1

Emphasis on English Language Arts and Reading TEKS as part of the English I graduation requirement. Emergent Bilinguals are expected to meet standards in a second language that many monolingual English speakers find difficult to meet in their native language.

In addition, EBs are acquiring English at the same time they are learning content in English. EBs' abilities to meet these standards will be influenced by their proficiency

in English. While EBs can analyze, synthesize, and evaluate, their level of English proficiency may impede their ability to demonstrate this knowledge during the initial stages of English language acquisition. For this reason, comprehension of text requires additional scaffolds that include adapted text (e.g., appropriate for student proficiency level; translations), pictures, realia, glossaries, bilingual dictionaries, thesaurus, and other modes of comprehensible input. This course must be taught by an ESL certified teacher.

English II (SOL) 03200700

Grade Placement: 10

Prerequisite: ENG II SOL must be blocked with English Language Development and Acquisition 1 or 2 for beginning language learners or with Reading II Sheltered for intermediate language learners.

THIS COURSE FULFILLS THE ENGLISH II STATE GRADUATION REQUIREMENT.

Semesters: 1, Credit: 1

Emphasis on English Language Arts and Reading TEKS as part of the English II graduation requirement. Emergent Bilinguals are expected to meet standards in a second language that many monolingual English speakers find difficult to meet in their native language.

In addition, EBs are acquiring English at the same time they are learning content in English. EBs' abilities to meet these standards will be influenced by their proficiency

in English. While EBs can analyze, synthesize, and evaluate, their level of English proficiency may impede their ability to demonstrate this knowledge during the initial stages of English language acquisition. For this reason, comprehension of text requires additional scaffolds that include adapted text (e.g., appropriate for student proficiency level; translations), pictures, realia, glossaries, bilingual dictionaries, thesaurus, and other modes of comprehensible input. This course must be taught by an ESL certified teacher.

English Language Development and Acquisition 1 (ELDA1) 03200800

Grade Placement: 9 **Co-requisite: English I SOL,**
Semesters: 1, Credit: 1

The English Language Development and Acquisition (ELDA) course is designed to provide instructional opportunities for secondary recent immigrants with little or no English proficiency. These students have scores at the negligible/very limited academic language level of the state-approved English oral language proficiency tests. This course enables students to become increasingly more proficient in English in all four language domains and addresses cognitive, linguistic, and affective needs.

The ELDA course will validate a student's native language and culture as a valuable resource and as a foundation to attain the English language. Students will develop social language, survival vocabulary, and the basic building blocks of literacy. This course must be taught by an ESL certified teacher.

English Language Development and Acquisition II (ELDA2) 03200810

Grade Placement: 10 **Co-requisite:** *English II SOL*, Semesters: 1, Credit: 1

The English Language Development and Acquisition (ELDA) course is designed to provide instructional opportunities for secondary recent immigrants with little or no English proficiency. These students have scores at the negligible/very limited academic language level of the state-approved English oral language proficiency tests. This course enables students to become increasingly more proficient in English in all four language domains and addresses cognitive, linguistic, and affective needs.

The ELDA course will validate a student's native language and culture as a valuable resource and as a foundation to attain the English language. Students will develop social language, survival vocabulary, and the basic building blocks of literacy. This course must be taught by an ESL certified teacher.

CPELA (College Preparatory for Transition ELA) CP110100

Grade Placement: 11-12 Prerequisites: Lower-level ELA classes Semesters: 1, Credit: 1

In this college prep course, students will improve integrated critical reading, writing and thinking skills through engagement in a variety of texts across content areas and genres. As a result, students will be able to develop and express ideas clearly and effectively to communicate with various audiences for different purposes and occasions. This course is intended to prepare students for college coursework with no remediation in reading and writing. Texas College Bridge is also a program that will be utilized for credit and success in college readiness. Students receiving a grade of at least 70 in the CP ELA will be exempt from the TSI at any partnering institution for the period of 24 months after graduation. Successful completion of the course does not guarantee admission to partnering institutions of higher education.

Teacher-Led English Dual Credit

EDUC 1300 (Learning Frameworks) (3270100)

Grade Placement: 9-12

Prerequisites: *Outside reading will be required*

Semesters: 1, Credit: .5, 3 College Hours

Covers topics important to all college bound student success. (Pathway to success, time management, communication, learning theories, learning styles, choosing a major, careers, goal/degree plan, stress and wellness, note taking, critical thinking, conflict, diversity, financial literacy and personal assessment.)

Freshman Composition I (ENGL 1301)

11th grade English 3 (3220300) Fall Semester only

12th grade English 4 (3220400) Fall Semester only

Grade Placement: 11-12 Prerequisite: *English I, II*

Semesters: 1, Credit: 1 **(Weighted) 3 College Hours**

Intensive study of and practice in the writing process, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasizes effective rhetorical choices, including audience, purpose, arrangement and style. Focus on writing the academic essay as a vehicle for learning, communicating and critical analysis.

Freshman Composition II (ENGL 1302)

(3221800) - Spring Semester only

Grade Placement: 11-12 Prerequisite: Freshman

Composition I Semesters: 1, Credit: 1 **(Weighted) 3 College Hours**

Intensive student and practice in the strategies and techniques for developing researched 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.

British Literature I (ENGL 2322) (3220400)

-Fall Semester only

Grade Placement: 12 Prerequisite: English I, II, II Semester: 1, Credit: 1 (Weighted) 3 College Hours

A survey of the development of British literature from the Anglo-Saxon period to the Eighteenth Century. 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

British Literature II (ENGL2323) (3221810)

-Spring Semester only

Grade Placement: 12 Prerequisite: *British Literature I* Semester: 1, Credit: 1 **(Weighted) 3 College Hours**

A survey of the development of British literature from the Romantic period to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic and cultural context. texts will be selected from a diverse group of authors and traditions.

Language Other Than English

Spanish I 03440100

Grade Placement: 9-12 Prerequisite: None Semesters: 1, Credit: 1

Spanish I is a novice level course that enables students to attain a measurable degree of knowledge and skills in the areas of: Communication-The student communicates in a language other than English using the skills of listening, speaking, reading, and writing. Cultures-The student gains knowledge and understanding of other cultures. Connections- The student uses the language to make connection with other subject areas and to acquire information. Comparisons- The student develops insight into the nature of language and culture by comparing the student's own language and culture to another. Communities-The student participates in communities at home and around the world by using languages other than English

Spanish II 03440200

Grade Placement: 9-12 Prerequisite: Spanish I Semesters: 1, Credit: 1

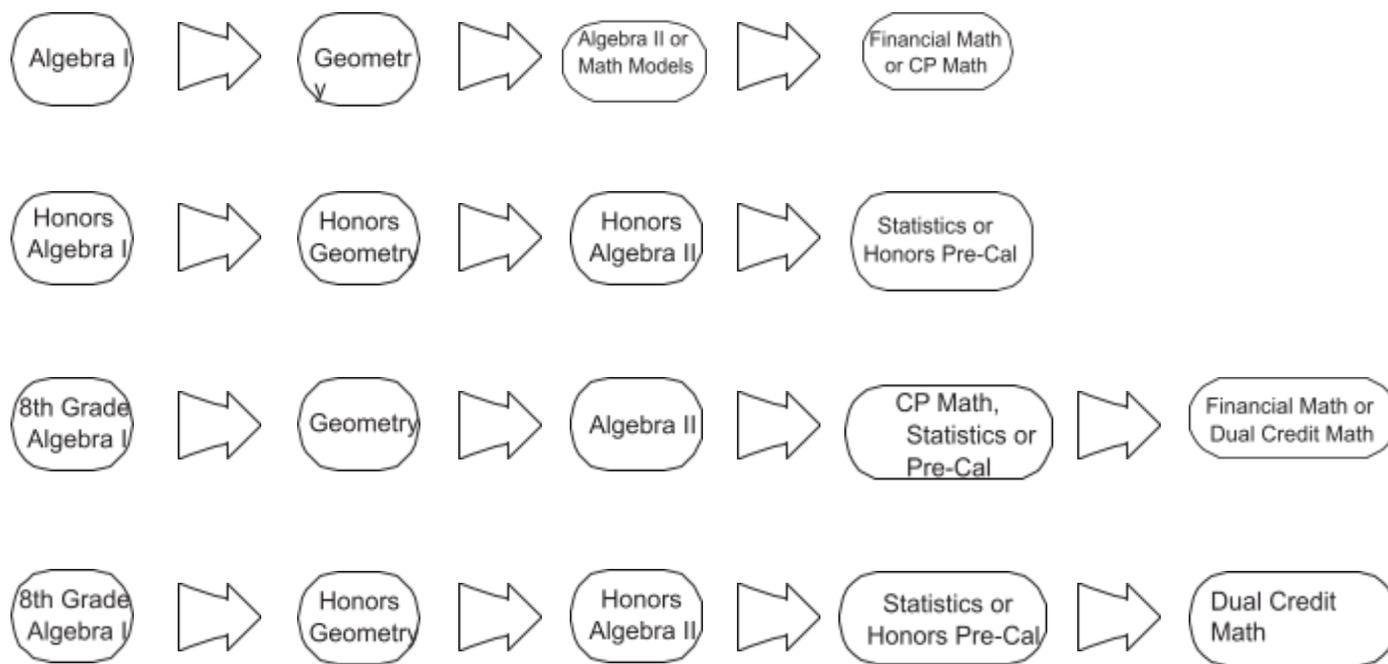
Spanish II is a novice level course that enables students to improve a measurable degree on attained knowledge and skills in the areas of: Communication-The student communicates in a language other than English using the skill of listening, speaking, reading, and writing. Culture-The student gains knowledge and understanding of other cultures. Connection-The student uses the language to make connections with other subject areas and to acquire information. Comparison-The student develops insight into the nature of language and culture by comparing the student's own language and culture to another. Communities-The student participates in communities at home and around the world by using language other than English

Spanish II Honors 03440200

Grade Placement: 9-12 Prerequisite: Spanish I & foreign language teacher recommendation or interview Semesters: 1, Credit: 1 (Weighted)

Spanish II Honors is an accelerated novice level course that enables students to improve a measurable degree on attained knowledge and skills in the areas of: Communication-The student communicates in a language other than English using the skill of listening, speaking, reading, and writing. Culture-The student gains knowledge and understanding of other cultures. Connection-The student uses the language to make connections with other subject areas and to acquire information. Comparison- The student develops insight into the nature of language and culture by comparing the student's own language and culture to another. Communities-The student participates in communities at home and around the world by using language other than English.

Mathematics



Algebra I 03100500

Grade Placement: 9

Prerequisite: None Semesters: 1, Credit: 1

Algebra I is the foundation of high school mathematics courses. It includes algebraic thinking and symbolic reasoning. Function concepts and the relationship between equations and functions are stressed. Tools for algebraic thinking which include multiple representations as well as the use of graphic calculators are emphasized. The focus includes the underlying mathematical processes that support all mathematics as well as the skills and knowledge needed to understand and use linear, quadratic, and other nonlinear equations. Credit is awarded by yearly average, not by semester.

Honors Algebra I 03100500

Grade Placement: 9,

Prerequisite: None

Semesters: 1, Credit: 1 (Weighted)

Algebra I is the foundation of high school mathematics courses. It includes algebraic thinking and symbolic reasoning. Function concepts and the relationship between equations and functions are stressed. Tools for algebraic thinking which include multiple representations as well as the use of graphic calculators are emphasized. The focus includes the underlying mathematical processes that support all mathematics as well as the skills and knowledge needed to understand and use linear, quadratic, and other nonlinear equations. **This course is recommended for those students who plan to attend college and have a strong math**

Algebra II 03100600

Grade Placement: 10-12

Prerequisite: Algebra I Semesters: 1, Credit: 1

Algebra II begins with an introduction to Functions. The important mathematical concepts of absolute values, quadratic, square root, cubic, cube root, rational, exponential, and logarithmic functions are covered. Other topics include complex numbers, systems of equations, inverses, inequalities, and relations. Algebra II is a prerequisite class for higher level math courses.

Honors Algebra II 03100600

Grade Placement: 10 Prerequisite: Algebra I

Semesters: 1, Credit: 1 (Weighted)

Honors Algebra II continues the development of topics covered in Algebra I. Students will broaden their knowledge of quadratic functions, exponential functions, and systems of equations. Additional topics include logarithmic, square root, cubic, cube root, absolute value, rational functions and their related equations. Students will connect functions to their inverses in both mathematical and real-world situations. Topics are covered in greater depth than regular Algebra II and problem-solving techniques and higher order thinking skills will be stressed. This course is recommended for those students who plan to attend college and have a strong math background. It is also recommended for students planning to take PAP Precalculus and Honors Statistics.

Mathematical Models with Applications

03102400

Grade Placement: 11-12

Prerequisite: Algebra I and Geometry

Semesters: 1, Credit: 1

This course is designed to familiarize students with models and real-life applied problems involving money, data, chance, patterns, design and science. As students use algebra and geometry in problem solving, they continually use language and communication, connections within and outside mathematics, and reasoning.

Geometry 03100700

Grade Placement: 9-10

Prerequisite: Algebra I Semesters: 1, Credit: 1

Geometry involves observing geometric figures and forming conclusions. Solving geometry problems will require critical reading and reasoning skills as well as algebra skills developed in Algebra I. Topics studied include: basic geometry terms, coordinate geometry, transformations, logic and reasoning, parallel lines, polygons, similarity and congruence, right triangles and the trigonometric ratios, circles, perimeter, area, and volume.

Honors Geometry 03100700

Grade Placement: 9-10 Prerequisite: Algebra I

Semesters: 1, Credit: 1 (Weighted)

Honors Geometry develops reasoning skills by studying various geometric figures and forming logical conclusions. The topics from regular Geometry will be covered in more depth and at a faster rate. Additional topics will be added as time allows. This course is recommended for those students who plan to attend college and have a strong math background. It is also recommended for students wishing to take Pre-AP Pre-Calculus and Honors Statistics.

Pre-Calculus 03101100

Grade Placement: 11-12 Prerequisite: Geometry, Algebra I, and Algebra II, Semesters: 1, Credit: 1

Pre-Calculus is an upper-level math course that builds on Algebra I, Algebra II, and Geometry foundations. Pre-Calculus emphasizes functions and continues the development of many of the topics covered in Algebra II as well as trigonometry, conic sections, polar coordinates, series, and vectors in two-space. Extensive use is made of graphing calculators to model functions and solve real-life problems.

Honors Pre-Calculus 03101100

Grade Placement: 11-12 Prerequisite: Algebra I, Algebra II, Geometry Semesters: 1, Credit: 1 (Weighted)

Honors Pre-Calculus is an upper-level math course that is highly recommended for those students planning to attend college and major in any branch of science, engineering, medicine, business and many other areas. Pre-Calculus emphasizes functions and continues the development of many of the topics covered in Algebra II as well as trigonometry, polar coordinates, series, and vectors in two- space. Extensive use is made of the graphing calculator. This course should be taken with teacher recommendation only.

Honors Statistics 03102530

Grade Placement: 11-12 Prerequisite: Geometry and Algebra II Semesters: 1, Credit: 1 (Weighted)

Honors Statistics is an upper-level math course that is highly recommended for students planning to attend college and major in any branch of science, engineering, medicine or mathematics. The purpose of honors Statistics is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions about data. Students are exposed to four broad conceptual themes: Exploring data, planning a study, anticipating patterns and statistical inference.

Financial Mathematics 13018000

Grade Placement: 11-12 Prerequisite: Algebra I Semesters: 1, Credit: 1

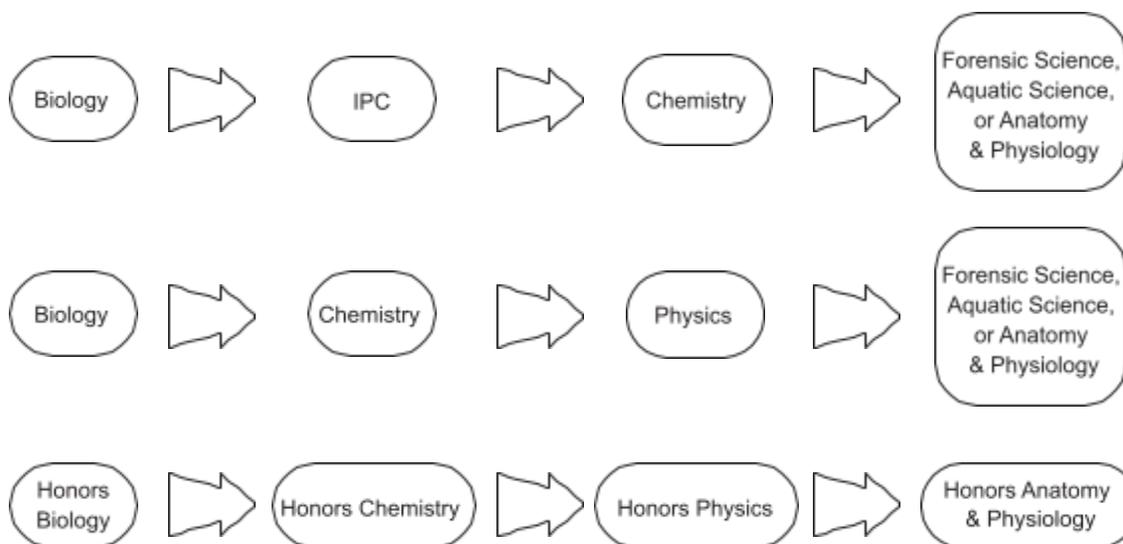
Financial Mathematics is a course about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors. This course satisfies a high school mathematics graduation requirement. CP111200 Grade Placement: 11-12

CPMath (College Preparatory for Transition Math) CP111200

Grade Placement: 11-12 Prerequisites: Lower-level math classes Semesters: 1, Credit:

College Preparatory Mathematics is a full credit course designed to be a full-year course that prepares students for success in entry-level college courses and/or success on the Texas Success Initiative (TSI) Assessment. College Preparatory Mathematics is a rigorous course that will include student learning outcomes and objectives in the following areas: Elementary Algebra and Functions, Inter- mediate Algebra and Functions, Geometry and Measurement; and Data Analysis, Statistics, and Probability. Students receiving a grade of at least 70 in the CPMath will be exempt from the TSI at any partnering institution for the period of 24 months after graduation. Successful completion of the course does not guarantee admission to partnering institutions of higher education. Texas College Bridge is also a program that will be utilized for credit and success in college readiness.

Science



Biology I 03010200

Grade Placement: 9 Prerequisite: None Semesters: 1, Credit: 1

Biology includes the study of the chemical and cellular basis of life; concepts in heredity and change over time; ecology and comparative physiology. Lab work will include materials related to the subject matter covered in class. It will provide sufficient background knowledge for college biology. Critical skills emphasized include communication, data analysis, critical thinking, use of computer technology and modern scientific equipment, as well as student responsibility.

Honors Biology 03010200

Grade Placement: 9 Prerequisite: None Semesters: 1, Credit: 1 (Weighted)

This course is designed for advanced students who have excelled in sciences and mathematics. Content areas include the study of chemical and cellular basis for life; special units on structure and function of plant and animal cells; gene splicing and DNA mapping; concepts in heredity and change over time; ecology and comparative physiology. There will be a strong emphasis on lab and research.

Chemistry I 03040000

Grade Placement: 10 Prerequisite: Completion of Biology and Algebra I Semesters: 1, Credit: 1

Chemistry involves the study of the basic components of matter and their interactions. Students will investigate, experiment, and research various chemical components and reactions. They will use qualitative and quantitative analysis in laboratory and class work. Computer technology enhances the concepts taught in this course.

Honors Chemistry 03040000

Grade Placement: 10 Prerequisite: None Semesters: 1, Credit: 1 (Weighted)

This course is designed for students who show an advanced aptitude toward physical sciences. This is a college preparatory class for students planning to attend a 4-year college/university which is taught at an accelerated rate covering the same objectives as regular chemistry but with a greater depth. Emphasis will be placed on high level thinking skills and math applications to solve problems related to the properties of elements, compounds and mixtures, atomic structure, chemical bonding, chemical equations and stoichiometry. Included in the course are independent research and the use of computer technology that facilitates conceptual understanding.

Physics 03050000

Grade Placement: 11-12 Prerequisite: Completion of Biology, Chemistry and Algebra I Semesters: 1, Credit: 1

This course provides a general survey of physics. Topics to be included will be kinematics, nonlinear motion, thermodynamics, conservation of energy, electricity, and wave properties. Skills emphasized include communication, data analysis, and critical thinking.

Honors Physics 03050000

Grade Placement: 11-12

Prerequisite: *None*

Semesters: 1, **Credit:** 1 (Weighted)

This course provides an in-depth survey of physics. Topics to be included will be kinematics, static's, non-linear motion, thermodynamics, energy conservation laws, wave properties, sound, light and optics. Students enrolled in this course should display a high degree of motivation in science and are seeking a career in science. Critical skills emphasized include communication, data analysis, critical thinking, computer technology and modern scientific equipment.

Integrated Physics and Chemistry

03060201 Grade Placement: 10

Prerequisite: *None* **Semesters:** 1, **Credit:** 1

In Integrated Physics and Chemistry students conduct field and laboratory investigations and make informed decisions using critical thinking and scientific problem-solving. This course integrates the disciplines of Physics and Chemistry in the following topics: lab safety, velocity, acceleration, forces and Newton's laws, momentum, mechanical energy, work and machines, waves and optical systems, electricity, circuits, matter, atomic structure, periodic table, compounds, bonding and chemical equations. Students will explore these and other topics through classroom work, lab investigations and small projects.

Environmental Systems 03020000

Grade Placement: 12

Prerequisite: *Biology and Chemistry*

Semesters: 1, **Credit:** 1

This course is designed to introduce students to major ecological concepts and the environmental problems that affect the world in which they live. Students will learn about technological developments, which have created environmental problems, as well as technology that is helping to solve them. This problem provides one way in which students can become more aware of the interaction of people and the environment laboratory and field work will be afforded to enhance learning.

Anatomy and Physiology 13020600

Grade Placement: 12 **Prerequisite:** *Biology and Chemistry* **Semesters:** 1, **Credit:** 1

In this course, students will study the structures and functions of the human body and body systems and will investigate the body's responses or forces, maintenance of homeostasis, electrical interactions, transport systems, and energy systems. Students conduct laboratory investigation, use scientific methods during investigation, and make informed decisions using critical thinking and problem solving.

Forensic Science 1302950

Grade Placement: 11-12 **Prerequisite:** *Biology and Chemistry* **Semesters:** 1, **Credit:** 1

This course provides a basic understanding of investigative theory, collection, preservation, and analysis of evidence; and the application of forensic science in real world cases. The scientific basis of forensics will be explored, including elements of biology, chemistry and physics.

Aquatic Science 03030000

Grade Placement: 12 **Prerequisite:** *Biology and Chemistry* **Semesters:** 1, **Credit:** 1

Aquatic science is a term long upper level science course. Students study a variety of topics including components of an aquatic ecosystem, relationships among aquatic habitats and ecosystems, roles of cycles in an aquatic environment, adaptations of organisms, changes within aquatic environments, geological phenomena and fluid dynamic effects, and origin and use of water.

Advanced Animal Science 13000700

Grades: 11-12 **Prerequisite:** *Equine Science, Small Animal Management or Livestock Production* **Semesters:** 1 **Credit:** 1

Advanced Animal Science examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

Teacher - Led Science Dual Credit

Biology 2306 Environmental Biology (03060300)

Grade Placement: 12 **Prerequisite:** *None*

TSIA2 Requirements: *TSI Reading, TSI Writing*

Semesters: 1, **Credit:** 1 (Weighted), 3 College Hours

Principles of environmental systems and ecology, including biogeochemical cycles, energy transformations, abiotic interactions, symbiotic relationships, natural resources and their management, lifestyle analysis, evolutionary trends, hazards and risks, and approaches to ecological research.

**Chem 1306 Introduction Chemistry 1 with
lab (13037210)**

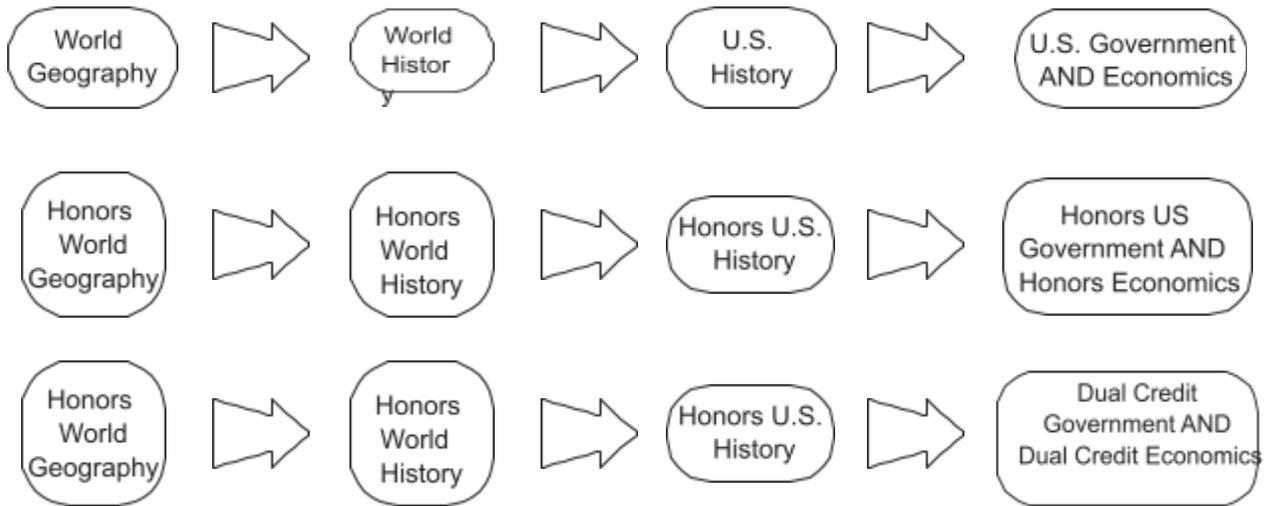
Grade Placement: 12

Prerequisite: None - TSIA2 Requirements

Semesters: 1, Credit: 1 **(Weighted)**, 4 College Hours

Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry.

Social Studies



World Geography 03320100

Grade Placement: 9 Prerequisite: None Semesters: 1, Credit: 1

World Geography is a course that allows students to examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Students describe the influence of geography on events of the past and present with emphasis on 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 world population; relationships among people, places, and environments; and the concept of region. Students analyze how location affects economic activities in different economic systems throughout the world. Students identify the processes that influence political divisions and analyze how different points of view affect the development of public policies. Students compare how components of culture shape the characteristics of regions and analyze the impact of technology and human modifications on the physical environment. Students use problem-solving and decision-making skills to ask and answer geographic questions.

World History 03340400

Grade Placement: 10 Prerequisite: None Semesters: 1, Credit: 1

World History is designed to prepare students for furthering their education and to give them a well-rounded knowledge of the development of man, his ideas, his achievements, his failures, and his struggles from the distant past to the known present. The course begins in the ancient Middle East and gradually moves West to take in a study of the classical people, the Romans and the Greeks, into an emergence of the highly industrialized Western Man of the present.

Honors World Geography 03320100

Grade Placement: 9-10 Prerequisite: None Semesters: 1, Credit: 1 (Weighted)

Honors World Geography is a course that consists of the same basic knowledge as World Geography. The information is provided in a writing and research-intensive manner, allowing students to develop a greater understanding of geographical terms and themes, the ability to analyze and express geographical changes and effect, and the ability to analyze geographical evidence. Essays and DB questions will be included in assessment material.

Honors World History 03340400

Grade Placement: 9-10 Prerequisite: None Semesters: 1, Credit: 1 (Weighted)

This course will consist of the same basic knowledge of the regular World History course. The information is provided in a writing and research format to allow students to develop a greater understanding of the development of man throughout history. Essays and DB questions will be included in assessment material.

United States History 03340100

Grade Placement: 11 Prerequisite: None Semesters: 1, Credit: 1

United States History provides an overview of the history of the United States from Reconstruction to the present. The emergence of the United States as a world power, geographic influences, economic, political, social and cultural developments are addressed. The course provides the student with a background and appreciation of United States history that will enable him/her to become an informed United States citizen.

Honors United States History 03340100

Grade Placement: 11 Prerequisite: None Semesters: 1, Credit: 1 (Weighted)

Honors United States History is an introductory college course in U.S. History covering the period from the first European explorations of the Americas to the present. Topics of study include: political institutions and behavior, public policy, social and economic change, diplomacy and international relations, and cultural and intellectual developments. In addition to providing a basic narrative of events, students are to develop (A) an understanding of themes in American history, (B) an ability to analyze historical evidence, and (C) an ability to analyze and express historical understanding in writing.

U.S. Government (Civics) 03330100

Grade Placement: 12 Prerequisite: None Semester: 1, Credit: 1/2

U.S. Government is a semester course that focuses on the principles and beliefs upon which the U.S. was founded, and on the structure, functions, and powers of government at the national, state, and local level. A major emphasis is on the U.S. Constitution. Students compare the U.S. system of government with other political systems. Students also learn the role of public opinion and the political party system in our representative democracy.

Personal Financial Literacy and Economics 03380083

Grade Placement: 12 Prerequisite: None Semester: 1, Credit: 1/2

This course will emphasize the economic way of thinking, which serves as a framework for the personal financial decision-making opportunities introduced in the course. Students will demonstrate the ability to anticipate and address financial challenges as these challenges occur over their lifetime. In addition, students are introduced to common economic and personal financial planning terms and concepts. As a result of learning objective concepts and integrating subjective information, students gain the ability to lead productive and financially self-sufficient lives.

Economics/Free Enterprise 03310300

Grade Placement: 12 Prerequisite: None Semester: 1, Credit: 1/2

Economics is a semester course where students learn to identify the characteristics and benefits of the free enterprise system and apply the knowledge of the role of the consumer in our free enterprise/capitalistic economic system. Students will also be exposed to the Personal Financial Literacy areas of instruction.

Honors U.S. Government 033301000

Grade Placement: 12 Prerequisite: US History Semester: 1, Credit: 1/2 (Weighted)

This is a one-semester study of the various institutions, groups, beliefs, and ideas that make up the American political reality. This course is designed for the avid social studies learner and college bound students.

Honors Economics 03310300

Grade Placement: 12 Prerequisite: US History Semester: 1, Credit: 1/2 (Weighted)

This one-semester course covers the principles of economics that apply to an economic system as a whole with particular emphasis on the study of national income and price determination. Students also develop familiarity with economic performance measures, economic growth and international economics.

Fine Arts

Art I 3500100

Grade Placement: 9-12 Prerequisite: None Semesters: 1, Credit: 1

Art I is designed to provide students with opportunities to explore creative expression through their perception of the environment and imagination, study of the elements and principles of art, historical, and cultural heritage, as well as interpret and evaluate art by peers and others. Students will be required to complete occasional out of class assignments such as sketchbook assignments, keep vocabulary and other written assignments in their art folder, as well as participate in either the Patriotic or Western Art Contests.

Students will be asked to participate in an annual fund-raiser. The proceeds from the fund-raiser will go toward the purchase of art materials/equipment and an annual field trip.

Please note: The Texas Education Agency requirements state, to earn a visual fine arts credit two (2) full semesters of a visual fine art must be successfully completed in one course to earn credit, one-half (1/2) credits in multiple courses are not allowed to fulfill the one (1) credit fine arts graduation requirement.

Art II Sculpture 3501000

Grade Placement: 9-12

Prerequisite: *Art I, a passing score on the Texas Tech Art I Exam, recommendation by a Floresville Middle School Art educator and review of the student's portfolio by an FHS Art educator. (By entering Art II via recommendation, Art I credit is not earned.)*

Semesters: 1, Credit: 1

Art II is designed to provide students opportunities to explore creative expression in depth, through 3-dimensional mediums, based on their study of the environment and imagination, the elements and principles of art, historical and cultural heritage, as well as interpretation and evaluation of art by peers and others. Basic sculptural techniques will be explored through carving and assemblage in such mediums as clay paper, plaster, fibers, etc.

Students will be required to complete weekly, out of class, sketchbook assignments as well as complete written assignments and participate in various art contests.

Students will be asked to participate in an annual fund-raiser. The proceeds from the fund-raiser will go toward the purchase of art materials/equipment and an annual field trip.

Art II Drawing 3500500

Grade Placement: 9-12

Prerequisite: *Art I, a passing score on the Texas Tech Art I Exam, recommendation by a Floresville Middle School Art educator and review of the student's portfolio by an FHS Art educator. (By entering Art II via recommendation, Art I credit is not earned.)* **Semesters: 1, Credit: 1**

Art II is designed to provide students opportunities to explore creative expression, in depth, through 2-dimensional mediums, based on their study of the environment and imagination, the elements and principles of art, historical and cultural heritage, as well as interpretation and evaluation of art by peers and others.

Drawings will be explored through various drawing mediums, painting, printing techniques, graphic design, and electronic media.

Students will be required to complete weekly, out of class, sketchbook assignments as well as complete written assignments and participate in various art contests.

Students will be asked to participate in an annual fund-raiser. The proceeds from the fund-raiser will go toward the purchase of art materials/equipment and an annual field trip.

Art Drawing III 03501300

Grade Placement: 10-12 Prerequisite: Art II Semesters: 1, Credit: 1

Art III is designed to provide students opportunities to explore creative expression, in depth, through 2-dimensional mediums, based on their study of the environment and imagination, the elements and principles of art, historical and cultural heritage, as well as interpretation and evaluation of art by peers and others. Drawing will be explored through various drawing mediums, painting, printing techniques, graphic design, and electronic media. Students will be required to complete weekly, out of class, sketchbook assignments, complete written assignments, as well as participate in various art contests.

During this course students will explore and develop topics for their senior portfolio presentation. By the end of the second week of the first nine weeks, students will be required to turn in a written proposal of their portfolio studies; the student will select their medium(s) of choice, such as drawing, painting, printing, sculpture, electronic

medium, etc. During the first week of each of the following six week grading periods, students will turn in a written outline of projects to be explored, in class. Students will be required to complete two weeklies out of class sketchbook assignments, complete other written assignments related to their art topics/projects, and complete the weekly in class assignments, as well as participate in various art competitions.

Students will be asked to participate in an annual fundraiser. The proceeds from the fundraiser will go toward the purchase of art materials/equipment and an annual field trip.

Students will be asked to participate in an annual fundraiser. The proceeds from the fund-raiser will go toward the purchase of art materials/equipment and an annual field trip.

Art Drawing IV 3502300

Grade Placement: 11-12 Prerequisite: Art III Semesters: 1, Credit: 1

Art IV is designed to provide students opportunities to explore creative expression through drawing, in mediums of their own selection, in order to produce a senior portfolio, based on their study of the environment and imagination, the elements and principles of art, historical and cultural heritage, as well as interpretation and evaluation of art by peers and others. During the first week of each nine week grading period, students will turn in a written outline of projects to be explored, in class; the student will select their medium(s) of choice, such as drawing, painting, printing, sculpture, electronic medium, etc. Students will be required to complete two weekly, out of class, sketchbook assignments, complete other written assignments related to their art topics/projects, complete weekly in class assignments, and participate in various art competitions. Seniors will present their portfolios at the Annual FHS Art Exposition. Students will be asked to participate in an annual fundraiser. The proceeds from the fundraiser will go toward the purchase of art materials/equipment and an annual field trip.

Art III: Digital Art and Media 03502220

Grade Placement: 10-12 Prerequisite: Art II Drawing or comparable course Semesters: 1, Credit: 1

Art III: Digital Art and Media Applications is designed to provide students opportunities to explore creative expression, in depth, through digital visual mediums; a continuation of their study of the environment and imagination, the elements and principles of art and design, historical and cultural heritage, as well as interpretation and evaluation of art by peers and others. Digital art will be explored through graphic design, and available electronic mediums. Students will be required to complete weekly, out of class, sketchbook assignments as well as complete written assignments and participate in various art contests.

Students will be asked to participate in an annual fund-raiser. The proceeds from the fund-raiser will go toward the purchase of art material and an annual field trip.

Band I, II, III, IV

PES0012, 03150100, 03150200, 03150300, 03150400

Grade Placement: 9-12 Prerequisite: Audition Semesters: 1, Credits: 1/2-1

The Floresville High School Band is a performance-based course open to any high school student with previous woodwind, brass, or percussion experience who has been in band every year since middle school. Anyone else must meet with a band director to determine entitlement. Non-band students may audition in the spring for the following year's colorguard. Performances include concerts, contests, half-time at Tiger Football games, pep rallies, and other school and civic events. Band can be counted as a PE credit during the fall semester, an elective credit, and a fine arts credit.

Applied Music I 03152500

Grade Placement: 9-12 Prerequisite: None Semesters: 1, Credits: 1

The applied music curriculum is designed to foster maximum development of skill and insight in musical performance through individual musical studies. Classes are mostly self-guided with weekly private instruction.

Applied Music II 03152600

Grade Placement: 9-12 Prerequisite: Applied Music I Semesters: 1, Credits: 1

The applied music curriculum is designed to foster maximum development of skill and insight in musical performance through individual musical studies. Classes are mostly self-guided with weekly private instruction.

Applied Music III 03152601

Grade Placement: 9-12 Prerequisite: Applied Music II Semesters: 1, Credits: 1

The applied music curriculum is designed to foster maximum development of skill and insight in musical performance through individual musical studies. Classes are mostly self-guided with weekly private instruction.

Theater Arts I 03250100

Grade Placement: 9-12 Prerequisite: None

Semesters: 1, Credit: 1

Theatre Arts I focus on the history of theater as well as building knowledge of the production process. Students must be active and participate in individual and group assignments both performance-based and handwritten. Performance based assignments include pantomimes, monologues, and a class production

Theater Arts II 03250200

**Grade Placement: 10-12 Prerequisite: Passed each
Nine Weeks Theater Arts I Semesters: 1, Credit: 1**

Theatre Arts II is a project-based course that revisits the production of theatre with an emphasis on theatrical design. Theatrical design includes set ground plans, artistic drawings of set designs, and marketing strategies. Projects include participating in critical analysis of various scripted works, set design, using and repairing props, using and improving costumes, and working with other theatrical equipment.

Theater Arts III 03250300

**Grade Placement: 11-12 Prerequisite: Theater Arts I & II
Semesters: 1, Credit: 1**

Theatre Arts III is a project-based course that revisits the production of theater with an emphasis on theatrical design. Theatrical design includes set ground plans, artistic drawings of set designs, and marketing strategies. Projects include participating in critical analysis of various scripted works, set design, using and repairing props, using and improving costumes, and working with other theatrical equipment.

Theater Production 03250700

Grade Placement: 9-12

**Prerequisite: Have taken Theater I or have participated in
One Act Play Semesters: 1, Credit: 1**

This course will allow students to experience more of the production process through researching plays, creating a set design, creating costumes, make-up, programs, etc. Theater Production class will also produce two public performances per year.

Theater Production II 03250800

Grade Placement: 10-12

Prerequisite: Instructor Approval, Theatre Production I
Students will study basic technical theatre skills including costumes, props, lights, sound, music, dance and set construction and apply these to the current productions. Semesters: 1, Credit: 1

This course will allow students to experience more of the production process through researching plays, creating a set design, creating costumes, make-up, programs, etc. Theater Production class will also produce two public performances per year.

Floral Design 13001800

**Grade Placement: 9-12 Prerequisite: None Semesters:
1, Credit: 1**

Floral Design is a yearlong course that prepares the student to enter the floral industry. Students will design and arrange flowers through a sponsorship program, learn to identify flowers and interior foliage plants, create specialty floral items and develop knowledge of sound business management practices and careers in the floral industry.

Students will also have the opportunity to test for the Texas State Floral Association Certification.

Principles of Dance I, II, III, IV 03830100, 03830200, 03830300, 03830400

Grade Placement: 9-12

Prerequisite: Try-out Semesters: 1, Credit: 1

This course will introduce dance as an art form through focus on perception, creative expression/performance, historical and cultural heritage and critical evaluation. Students' creative expression is fostered through kinesthetic awareness/skill development, introduction to various dance forms, and chore

PHYSICAL EDUCATION & ATHLETICS

Skills-Based Lifetime Activity PES00056

Grade Placement: 9-12 Prerequisite: None

Semesters: 1, Credit: 1

The Skill-Based Lifetime Activities course offers students the opportunity to demonstrate mastery in basic sport skills, basic sport knowledge, and health and fitness principles. Students experience opportunities that promote physical literacy and lifetime wellness. Students in Skill-Based Lifetime Activities participate in a minimum of one lifelong activity from each of the following five categories during the course.

(A) Target games are activities in which students send an object toward a target.

(B) Striking and fielding games are activities in which students strike an object in order to score points within a game.

(C) Fitness activities provide opportunities for students to apply fitness principles to accomplish an objective.

(D) Rhythmic activities provide opportunities for students to demonstrate or create movement sequences with rhythm.

(E) Innovative games and activities with international significance are those games and activities that use new or innovative equipment, have been created by students, or are played internationally.

Girls

Girls Athletics I PES00000 Girls Athletics II PES00001 Girls Athletics III PES00002 Girls Athletics IV PES00003

Boys

Boys Athletics I PES00000 Boys Athletics II PES00001 Boys Athletics III PES00002 Boys Athletics IV PES00003

Grade Placement: 9-10 Prerequisite: None

Semesters: 1, Credits: 1/2-1

Four years of athletics can be taken as state credit.

Sports Medicine I, II, III, IV N1150040, N1150041 N1150044 85000SPM

Grade Placement: 9-12 Prerequisite: Contact Trainer or Athletic Director, GPA of 3.0 or higher. Excellent prior year(s) attendance and disciplinary as verified by assistant principal. Energetic and willing to work long hours and willing to commit two years to the program. Parent permission is required. Semesters: 1, 1st & 2nd Year Credit: 1

Student trainers will work under the supervision of the Athletic Trainer. They will also be responsible for cleaning and organizing facilities. Athletic Trainer III and IV are "local credit" and given a grade of Pass/Fail.

Principles of Dance I, II, III, IV 03830100, 03830200, 03830300, 03830400

Grade Placement: 9-12 Prerequisite: Try-out

Semesters: 2, Credit: 1

The students will acquire advanced skills in the following dance techniques: ballet, jazz, character, and modern. They will be given the opportunity to develop self-confidence through the use of the body as an expressive instrument through opportunities to audition, rehearse and perform in public performances. The students will learn to appreciate dance as an art form and to utilize their kinesthetic awareness.

Cheerleading I, II, III, IV PES00013, PES00002, PES00003, PES00004

Grade Placement: 9-12 Prerequisite: Try-out

Semesters: 2, Credit: 1

Cheerleaders are selected by a screening process which includes an application, teacher evaluation, and demonstrating ability before a panel of judges. Parents should discuss costs with the sponsor. Cheerleaders are required to attend summer practices, camps, gymnastic classes, and participate in a number of activities outside regular school hours.

Color Guard

PES00014, PES00002, PES00003, PES00004

Grade Placement: 9-12 Prerequisite: Audition or Director Approval Semesters: 2, Credit: 1

The Color Guard class is designed to provide students with an outlet for musical expression and performance through flag, rifle, saber and dance. All members of the class must participate in the Fall Marching Band. Marching band participation includes, May (of the previous year) marching training, rehearsals throughout the summer, late summer band camp, outside of the school day rehearsals and performances throughout the fall semester. The Marching Band performs at varsity football games, community events, and competes in marching contests sponsored by the UIL and by other organizations. During the spring semester, all students enrolled in the Colorguard class may participate in winter guard according to their proficiency as determined by audition and instructor placement. Extra rehearsals and performances are mandatory and part of the student's grade. Students enrolled in Colorguard

MISCELLANEOUS COURSES

Creative Writing 03221200

Grade Placement: 12 Prerequisite: *English III*
Semesters: 1, Credit: 1

Creative and Imaginative Writing is a rigorous composition course in which students will develop their skills in such forms of writing as essays, short stories, poetry, and drama. Students will use recursive writing processes for self-initiated and assigned writing as well as evaluate the writing of others.

Psychology 03350100

Grade Placement: 11-12 Prerequisite: *None* Semester: 1, Credit: 1/2

This course may not be substituted as a Social Studies graduation required course. Psychology is an upper level one semester course offered to mature students who are interested in the field of psychology. Human growth, development, and behavior of the individual are concepts that will be studied along with the concept of understanding oneself and other individuals.

Sociology 03370100

Grade Placement: 11-12 Prerequisite: *None* Semester: 1, Credit: 1/2

Sociology is an upper level one semester course offered to mature students who are interested in the field of sociology. Human growth, development, and behavior of the individual as part of a family, group, and society are concepts that will be studied along with the concept of understanding the dynamics of group and society as a whole.

Teacher Aide Office Aide Library Aide 85000TAD

Grade Placement: 12 Prerequisite: *Application and Administrative approval* Semesters: 1, Local Credit

Available to senior students who are enrolled in 5 credit classes and have passed EOC. Only one aide class is allowed each semester. Good attendance is necessary. Office aides will pick up attendance slips and run errands. Teacher aides will help teachers and run errands.

This course will be given "local credit," will be taken on a Pass/Fail basis, and will not be figured in the numeric grade average.

Health 03810100

Grade Placement: 9-12 Prerequisite: *None* Semester: 1, Credit: 1/2

The goal of health education is to provide instruction that allows youth to develop and sustain health-promoting behaviors throughout their lives. The understanding and application of these standards will allow students the ability to gather, interpret, and understand health information; achieve health literacy; and adapt to the ever-evolving science of health. The health education knowledge and skills is presented to students in a positive manner to support the development of a healthy self-concept and responsible decision making

ROTC I PES00004

Grade Placement: 9-12 Prerequisite: *None* Semesters: 1, Credit: 1

The mission of Air Force JROTC is to, "Develop citizens of character, dedicated to serving their nation and community." The goal of the program is to instill in high school cadets the values of: citizenship, service to the United States, personal responsibility, and a sense of accomplishment. Forty percent of ROTC I is comprised of an aerospace science course called "A Journey into Aviation History." This course focuses on the development of flight throughout the centuries. Approximately 40% of the program is devoted to Leadership Education (LE) and Drill and Ceremonies. The ROTC I LE course is titled "Citizenship, Character, and Air Force Tradition." This course provides a basis for progression through the rest of the program while instilling elements of good citizenship. Wellness is also an official part of the ROTC I program and makes up 20% of the course. It is an exercise program focused upon individual base line improvements with the goal of achieving a national standard as calculated with age and gender.

Enrollment in AFJROTC does not subject the students to any military obligation and is not an accession or recruiting program.

ROTC I can be a PE equivalent.

ROTC II 3160200

Grade Placement: 10-12 Prerequisite: ROTC I Semesters: 1, Credit: 1

The second year of AFJROTC is designed to acquaint the student with the science of flight, leadership, communication, life skills, and career opportunities. The Aerospace Science course is titled: "The Science of Flight, A Gateway to New Horizons." The course introduces students to principles of flight, weather conditions, physiology and navigation. The Leadership Education (LE) is titled: "Communication, Awareness, and Leadership." This course will be helpful to students deciding which path to take after high school. Cadet corps activities also include holding positions of greater responsibility in the planning and execution of corps projects. Approximately 40% of ROTC II is devoted to Aerospace Science, 40% to Leadership Education/Drill and Ceremonies, and 20% to the cadet Wellness program.

ROTC II can be a PE equivalent.

ROTC III 3160300

Grade Placement: 11-12 Prerequisite: ROTC II Semesters: 1, Credit: 1

The third year of AFJROTC is designed to acquaint the student with astronomy and the exploration of space, leadership, communication, life skills, and career opportunities. The Aerospace Science course is titled: "Exploring Space, The High Frontier." The course introduces students to the space environment, challenges of exploring space, manned and unmanned spaceflight, and space technology. The Leadership Education (LE) is titled: "Communication, Awareness, and Leadership." This course will be helpful to students deciding which path to take after high school. Cadet corps activities also include holding positions of greater responsibility in the planning and execution of corps projects. Approximately 40% of ROTC III is devoted to Aerospace Science, 40% to Leadership Education/Drill and Ceremonies, and 20% to the cadet Wellness program.

ROTC IV 3160400

Grade Placement: 12 Prerequisite: ROTC III Semesters: 1, Credit: 1

The Aerospace Science course for fourth year cadets is titled: "Management of the Cadet Corps." This hands-on experience affords the cadets the opportunity to put the theories of previous leadership courses into practice.

All the planning, organizing, coordinating, directing, controlling, and decision-making will be done by the ROTC IV cadets. The Leadership Education course is titled: "Principals of Management." This course provides exposure to the fundamentals of management. The text contains leadership topics that will benefit students as well as provide them with some of the necessary skills needed

to put into practice what they have learned during their time in AFJROTC. Approximately 40% of ROTC IV is devoted to Aerospace Science, 40% to Leadership Education/Drill and Ceremonies, and 20% to the cadet Wellness program.

The courses also assist the students with developing and generalizing appropriate and beneficial social skills and in turn increases that student's post-secondary outcome.

Making connections III assists students in understanding how their specific disability impacts their learning styles. Students learn to employ the proper accommodations and modifications to be more successful. Additionally, they develop the skills to effectively self-advocate for the accommodations and modifications they require.

DUAL CREDIT COURSES

Exemplar of student schedule

Content	9th Grade	10th Grade	11th Grade	12th Grade
English	English I or English I Pre-AP	English II or English II Pre-AP	DC Composition I ENGL 1301 & 1302	DC Communications ENGL 2311 or ENG 2322
Mathematics	Algebra I or Algebra I Pre-AP	Geometry or Geometry Pre-AP	Algebra II or Algebra II Pre-AP	DC Math MATH 1314 or MATH 1332 or Math 2412 or Math 1442
Science	Biology or Biology Pre-AP	Chemistry or Pre-AP Chemistry or Physics or Pre-AP Physics or Advanced Science	DC Science BIOL 1306/1106 OR BIOL 2301/2101	DC Life & Physical Science GEOL 1305 or BIOL 2306
Social Studies	World History or World History Pre-AP or W. History AP *World Geography can be substituted for W. History.	DC GOVT 2306	DC US History HIST 1301 & 1302	DC GOVT 2305 & DC ECON 2301
Foreign Language	Language other than English 1	Language other than English 2 OR DC SPAN 2311 DC SPAN 1411 fall SPAN 1412 Spring		
Fine Art	DC ARTS 1301 OR MUSI 1306			
Physical Education	PE, Aerobics, Athletics, Dance			
Health Prof. Comm	Health	DC SPCH 1315 or SPCH 1311		
Endorsement Course/ DC ELECTIVES	CHOOSE 5 OTHER SCI/ ELECTIVES TO GRADUATE WITH A.S:	Social/Behavioral Sci: PSYCH 2301, SOCI 1301, SOCI 2301	Social/Behavioral Sci: PSYC 2314 SCI: BIOL 1322	Social/Behavioral Sci: Econ 2301 SCI: CHEM 1306/1106 OR MATH (IDENTIFIED ABOVE) - NOT TAKEN
Other Electives	Learning Framework EDUC1300 and BCIS 1305			

Exemplar of courses when offered at FHS by grade level.

Content	9th Grade	10th Grade	11th Grade	12th Grade
Communication	DC Communications (Select 1 course) SPCH1311, SPCH 1315		DC Composition I ENGL 1301 DC Communications (Select 1 course): ENGL 1302 OR 2311	
Mathematics			DC Math (Select 1 Course) MATH 1314 or MATH 1332 orOR Math 2412 or Math 1442
Life and Physical Sciences			DC Science Select 2 Courses: BIOL 1306/1106 OR BIOL 2301/2101 OR CHEM 1306/1301	
Language, Philosophy & Culture		DC (Select 1 Course): PHIL 1301, HUMA 1301, PHIL 2306, SPAN 2311	... OR ENGL 2322, ENGL 2322 OR	
Creative Arts	DC (Select 1 Course): ARTS 1301 OR MUSI 1306			
American History			DC US History HIST 1301 & 1302	
Govt/Political Science		DC GOVT 2306		DC GOVT 2305
Social & Behavioral Science				DC (Select 1 Course): ECON 2301, PSYC 2301, PSYC 2314, SOCI 1301, SOCI 2301
DC ELECTIVES for AS Degree: Select 1 core course: science/math that has NOT been taken.			DC Science Select 1 course (3 HR COURSE) : GEOL 1305, BIOL 1322, BIOL 2306 OR Math from above not previously taken.	
DC ELECTIVES for AA Degree: Select 1 course other than science/math that has NOT been taken.		DC Select 1 Course (3 HR COURSE) from above not previously taken: PHIL 1301, HUMA 1301, PHIL 2306, SPAN 2311	OR... SPAN 1411, SPAN 1412, SPAN 2312	
Other Electives	Learning Framework EDUC1300 and BCIS 1305			

ONLINE DUAL CREDIT

Students will be responsible for paying for their textbooks for college level dual credit courses.

Courses taken through Coastal Bend College.

Creative Arts

ARTS 1301 Art Appreciation (3500110)

Grade Placement: 9-12 Prerequisite: *None*

TSIA2 Requirements: *None* Semesters: 1, Credit: 1
(Weighted), 3 College Hours

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.

Music 1306 Music Appreciation (3155600)

Grade Placement: 9-12 Prerequisite: *None*

TSIA2 Requirements: *None* Semesters: 1, Credit: 1
(Weighted), 3 College Hours

Understanding music through the study of cultural periods, major composers, and musical elements. Illustrated with audio recordings and live performances.

Component Area

EDUC 1300 (Learning Frameworks) (3270100)

Grade Placement: 9-12

Prerequisites: *Outside reading will be required*

Semesters: .5, Credit: 1, 3 College Hours

Covers topics important to all college bound student success. (Pathway to success, time management, communication, learning theories, learning styles, choosing a major, careers, goal/degree plan, stress and wellness, note taking, critical thinking, conflict, diversity, financial literacy and personal assessment.)

BCIS 1305 Business Computer Applications (13011400)

Grade Placement: 9-12 Prerequisite: *None* TSIA2

Requirements: *None* Semesters: 1, Credit: 1
(Weighted), 3 College Hours

Students will study computer terminology, hardware, and software related to the business environment. The focus of this course is on business productivity software applications and professional behavior in computing, including word processing (as needed), spreadsheets, databases, presentation graphics, and business-oriented utilization of the Internet.

Communication

Freshman Composition I (ENGL 1301)

11th grade English 3 (3220300)

12th grade English 4 (3220400)

Grade Placement: 11-12 Prerequisite: *English I, II*

Semesters: 1, Credit: 1 **(Weighted) 3 College Hours**

Intensive study of and practice in the writing process, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasizes effective rhetorical choices, including audience, purpose, arrangement and style. Focus on writing the academic essay as a vehicle for learning, communicating and critical analysis.

Freshman Composition II (ENGL 1302) (3221800)

Grade Placement: 11-12 Prerequisite: Freshman

Composition I Semesters: 1, Credit: 1 **(Weighted) 3 College Hours**

Intensive student and practice in the strategies and techniques for developing researched 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 2311 Technical Business Writing (13011600)

Grade Placement: 9-12, Prerequisite: *None*

TSIA2 Requirements: *Reading and Writing*

Semester 1, Credit 1 **(Weighted), 3 College Hours**

Intensive study of and practice in professional settings. Focus on the types of documents necessary to make decisions and take action on the job, such as proposals, reports, instructions, policies and procedures, e-mail messages, letters, and descriptions of products and services. Practice individual and collaborative processes involved in the creation of ethical and efficient documents.

Speech 1311 Speech Communications (3241400)

Grade Placement: 9-12 Prerequisite: *None*

Semesters:1, Credit: .5 **(Weighted), 3 College Hours**

Introduces basic human communications principles and theories embedded in a variety of contexts including interpersonal, small group, and public speaking.

Speech 1315 Public Speaking (03240900)

Grade Placement: 9-12, **Prerequisite:** *None*
TSIA2 Requirements: *None*, **Semesters:** 1,
Credit: .5 or 1 (**Weighted**), 3 College Hours

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 abilities to effectively evaluate oral presentations.

Language, Philosophy & Culture

British Literature I (ENGL 2322) (3220400)

Grade Placement: 12 **Prerequisite:** *English I, II, II*
Semester: 1, Credit: 1 (**Weighted**) 3 College Hours

A survey of the development of British literature from the Anglo-Saxon period to the Eighteenth Century. 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

British Literature II (ENGL2323) (3221810)

Grade Placement: 12 **Prerequisite:** *British Literature I*
Semester: 1, Credit: 1 (**Weighted**) 3 College Hours

A survey of the development of British literature from the Romantic period to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic and cultural context. Texts will be selected from a diverse group of authors and traditions.

Huma 1301 Introduction to Humanities (3221600)

Grade Placement: 12 **Prerequisite:** *None*
TSIA2 Requirements: *TSI Reading, TSI Writing*
Semesters: 1, Credit: .5 (**Weighted**), 3 College Hours

This stand-alone course is an interdisciplinary survey of cultures focusing on the philosophical and aesthetic factors in human values with an emphasis on the historical development of the individual and society and the need to create.

Phil 1301 Introduction to Philosophy (3221810)

Grade Placement: 12 **Prerequisite:** *None*
TSIA2 Requirements: *TSI Reading, TSI Writing*
Semesters: 1, Credit: 1 (**Weighted**), 3 College Hours

The study of major issues in philosophy and /or the work of major philosophical figures in philosophy. Topics in philosophy may include theories of reality, theories of knowledge, theories of value, and their practical applications.

Phil 2306 Introduction to Ethics (03221820)

Grade Placement: 12 **Prerequisite:** *None*
TSIA2 Requirements: *TSI Reading, TSI Writing*
Semesters: 1, Credit: 1 (**Weighted**), 3 College Hours

The systematic evaluation of classical and/or contemporary ethical theories concerning the good life, human conduct in society, morals, and standards of value.

SPAN 1411 Beginner Spanish 1 (3440100)

Grade Placement: 9-12 **Prerequisite:** *None*
TSIA2 Requirements: *None* Semesters: 1, Credit: 1
(**Weighted**), 3 College Hours

Basic Spanish language skills in listening, speaking, reading, and writing within a cultural framework. Students will acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the beginner level.

SPAN 1412 Beginning Spanish II (3440200)

Grade Placement: 9-12 **Prerequisite:** *One year of HS Spanish* TSIA2 Requirements: *None* **Semesters:** 1, **Credit:** 1 (**Weighted**), 3 College Hours

Continued development of basic Spanish language skills in listening, speaking, reading, and writing within a cultural framework. Students acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the high beginner to low intermediate level.

SPAN 2311 Intermediate Spanish 1 (3440300)

Grade Placement: 9-12 **Prerequisite:** *Two years of HS Spanish* TSIA2 Requirements: *None*
Semesters: 1, **Credit:** 1(**Weighted**), 3 College Hours

The consolidation of skills acquired at the introductory level. Further development of proficiency in listening, speaking, reading and writing, Emphasis on comprehension, appreciation, and interpretation of the cultures of the Spanish-speaking world.

Span 2312 Intermediate Spanish II (3440400)

Grade Placement: 9-12 **Prerequisite:** *Three years of HS Spanish* TSIA2 Requirements: *None* **Semesters:** 1, **Credit:** 1(**Weighted**), 3 College Hours

The consolidation of skills acquired at the introductory level. Further development of proficiency in listening, speaking, reading and writing. Emphasis on comprehension, appreciation, and interpretation of the cultures of the Spanish-speaking world.

Social and Behavioral Sciences

SOCI 1301 Introduction to Sociology (3370100)

Grade Placement: 10-12 Prerequisite: None TSIA2 Requirements: TSI Reading and Writing Semesters: 1, Credit: ½ (Weighted) , 3 College Hours

The scientific study of human society, including ways in which groups, social institutions, and individuals affect each other. Causes of social stability and social change are explored through the application of various theoretical perspectives, key concepts, and related research methods of sociology. Analysis of social issues in their institutional context may include topics such as social stratification, gender, race/ ethnicity, and deviance.

Soci 2301 Marriage and the Family (03350100)

Grade Placement: 9-12 Prerequisite: None TSIA2 Requirements: Reading and Writing Semesters: 1, Credit: .5 (Weighted), 3 College Hours

Sociological and theoretical analysis of the structures and functions of the family, the varied cultural patterns of the American family, and the relationships that exist among the individuals within the family, as well as the relationships that exist between the family and other institutions in society.

PSYC 2314 Lifespan Growth and Development (03380022)

Grade Placement: 9-12 Prerequisite: None TSIA2 Requirements: Reading and Writing Semesters: 1, Credit: .5 (Weighted), 3 College Hours

Study of social, emotional, cognitive and physical factors and influences of a developing human from conception to death.

PSYC 2301 General Psychology (3350100)

Grade Placement: 10-12 Prerequisite: None TSIA2 Requirements: TSI Reading and Writing Semesters: 1, Credit: 1/2 (Weighted), 3 College Hours

General Psychology is a survey of the major psychological topics, theories and approaches to the scientific study of behavior and mental processes.

ECON 2301 Principles of Macroeconomics (3310300)

Grade Placement: 12 Prerequisite: None TSIA2 Requirements: TSI Reading and Writing Semesters: 1, Credit: ½ (Weighted) , 3 College Hours

An analysis of the economy as a whole including measurement and determination of Aggregate Demand and Aggregate Supply, national income, inflation, and unemployment. Other topics include international trade, economic growth, business cycles, and fiscal policy and monetary policy.

ECON 2302 Principles of Microeconomics (03310301)

Grade Placement: 12 Prerequisite: None TSIA2 Requirements: TSI Reading and Writing Semesters: 1, Credit: ½ (Weighted), 3 College Hours

Analysis of the behavior of individual economic agents, including consumer behavior and demand, producer behavior and supply, price and output decisions by firms under various market structures, factor markets, market failures, and international trade.

American History

HIST 1301 United States History I (3380002)

Grade Placement: 10-12 Prerequisite: None TSIA2 Requirements: TSI Reading and Writing Semesters: 1, Credit: 1/2 (Weighted), 3 College Hours

A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period. United States History I includes the study of pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/ Reconstruction eras. Themes that may be addressed in United States History I include: American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and creation of the federal government.

HIST 1302 United States History II (3330100) HS EOC Equivalent

Grade Placement: 11 Prerequisite: None TSIA2 Requirements: TSI Reading and Writing Semesters: 1, Credit: 1 (Weighted), 3 College Hours

A survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/ Reconstruction era to the present. United States History II examines industrialization, immigration, world wars, the Great Depression, Cold War and post-Cold War eras. Themes that may be addressed in United States II include: American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy.

Government/Political Science

GOVT 2305 Federal Government (3330100)

Grade Placement: 12 **Prerequisite:** None **TSIA2**

Requirements: *TSI Reading and Writing*

Semesters: 1, Credit: .5 (**Weighted**), 3 College Hours

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.

GOVT 2306 Texas Government (3380001)

Grade Placement: 10-12 **Prerequisite:** None

TSIA2 Requirements: *TSI Reading and Writing* Semesters:

1, Credit: .5 (**Weighted**) , 3 College Hours

Origin and development of the Texas Constitution, structure and powers of the state and local government, federalism and intergovernmental relations, political participation, the election process and public policy.

Life and Physical Sciences

Biology 2306 Environmental Biology (3060300)

Grade Placement: 12 **Prerequisite:** None **TSIA2**

Requirements: *TSI Reading, TSI Writing* **Semesters:** 1, **Credit:** 1 (**Weighted**), 3 College Hours

Principles of environmental systems and ecology, including biogeochemical cycles, energy transformations, abiotic interactions, symbiotic relationships, natural resources and their management, lifestyle analysis, evolutionary trends, hazards and risks, and approaches to ecological research.

Chem 1306 Introduction Chemistry 1 with lab (13037200)

Grade Placement: 12 **Prerequisite:** None - **TSIA2**

Requirements **Semesters:** 1, **Credit:** 1 (**Weighted**), 4

College Hours

Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry.

BIOL 1306 Biology for Science Majors I (Lecture) with lab 1106 (3010200)

Grade Placement: 12 **Prerequisite:** None

TSIA2 Requirements: *TSI Reading, TSI Writing*

Semesters: 1, **Credit:** 1 (**Weighted**), 4 College Hours

Fundamental principles of living organisms will be studied, including physical and chemical properties of life, organizations, function, evolutionary adaptation, and classification. Concepts of cytology, reproduction, genetics, and scientific reasoning are included.

BIOL 2301 Anatomy and Physiology 1 with Lab 2101 (13020600)

Grade Placement: 12

Prerequisite: None

TSIA2 Requirements: *TSI Reading, TSI Writing*

Semesters: 1, **Credit:** 1 (**Weighted**) , 4 College Hours

This is the first part of a two-course sequence. It 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.

Biology 1322 Nutrition & Diet Therapy (13024400)

Grade Placement: 12 **Prerequisite:** None

TSIA2 Requirements: *TSI Reading, TSI Writing*

Semesters: 1, **Credit:** 1 (**Weighted**), 3 College Hours

This course introduces general nutritional concepts in health and disease and includes practical applications of that knowledge. Special emphasis is given to nutrients and nutritional processes including functions, food sources, digestion, absorption, and metabolism. Food safety, availability, and nutritional information including food labels, advertising, and nationally established guidelines are addressed.

Geol 1305 Environmental Geology (03063200)

Grade Placement: 12 **Prerequisite:** None

TSIA2 Requirements: *TSI Reading, TSI Writing*

Semesters: 1, **Credit:** 1 (**Weighted**), 3 College Hours

A survey of the forces, including humans, that shape our physical and biologic environment, and how they affect life on Earth. Introduction to the science and policy of global and regional environmental issues, including pollution, climate change, and sustainability of land, water, and energy resources.

Mathematics

MATH 1314 College Algebra (03102540)

Grade Placement: 10-12 **Prerequisite:** Alg. 2

TSIA2 Requirements: *TSI Math Score of 350 or above*

Semesters: 1, **Credit:** 1 (**Weighted**) , 3 College Hours

In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices.

MATH 2412 Precalculus (3101100)

Grade Placement: 11-12 Prerequisite: *Math 1314 with a "C" or better* TSIA2 Requirements: *TSI Math*

Semesters: 1, Credit: **1 (Weighted), 4 College Hours**

In-depth combined study of algebra, trigonometry, and other topics for calculus readiness.

Math 1322 Contemporary Math (03102500)

Grade Placement: 11-12 Prerequisite: *MATH 0321 with a "C" or better* TSIA2 Requirements: *TSI Math* Semesters: 1, Credit: 1, 3 College Hours

Topics may include introductory treatments of sets, logic, number systems, number theory, relations, functions, probability and statistics. Appropriate applications are included.

Math 1442 Elementary Statistical Methods (03102530)

Grade Placement: 11-12 Prerequisite: *MATH 0322 with a "C" or better* TSIA2 Requirements: *TSI Math* Semesters: 1, Credit: 1 (Weighted) , 4 College Hours

Collections, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended.

PUBLIC NOTIFICATION OF NONDISCRIMINATION IN CAREER AND TECHNICAL EDUCATION PROGRAMS

Floresville ISD offers career and technical education programs in Arts, A/V Technology & Communications; Education and Training; Health Science; Information Technology; Manufacturing, Agriculture, Food & Natural Resources; Hospitality & Tourism; Science, Technology, Engineering & Math and Transportation, Distribution, & Logistics. Admission to these programs is based on student interest and grade classification.

It is the policy of Floresville ISD not to discriminate on the basis of race, color, national origin, sex or handicap in its vocational programs, services or activities and provides equal access to the Boy Scouts and other designated youth groups as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973, as amended.

It is the policy of Floresville ISD not to discriminate on the basis of race, color, national origin, sex, handicap, or age in its employment practices as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; the Age Discrimination Act of 1975, as amended; and Section 504 of the Rehabilitation Act of 1973, as amended.

Floresville ISD will take steps to assure that lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs.

For information about your rights or grievance procedures, contact the Title IX Coordinator, Jessica Stanush, at Floresville ISD Central Office, 1205 5th Street, Floresville, TX 78114; jstanush@fisd.us; 830-393-5300, and/or the Section 504 Coordinator, Elia Cantu at Floresville ISD Central Office, 1205 5th Street, Floresville, TX 78114; ecantu1@fisd.us; (830) 393-5300.

Agriculture Food and Natural Resources

Principles of Agriculture, Food and Natural Resources 1300200

Grade Placement: 9-12 Prerequisite: *None* Semesters: 1, Credit 1

This course is designed to give students an overview of the field of agriculture. Students will focus their learning on animal science, plant science, soil science, leadership skills, food technology, and environmental sciences. Students will have the opportunity to explore the changing field of agriculture and how it will affect our everyday lives.

Agricultural Mechanics and Metal Technologies 13002200

Grade Placement: 10-12 Prerequisite: *level 1 & 2* Semesters: 1, Credit: 1

This is an introductory course designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metalworking techniques.

Agricultural Structure Design and Fabrication 13002300

Grade Placement: 11-12

Prerequisite: Recommended: *Ag Mech* Semesters: 1, Credit: 1

To be prepared for careers in mechanized agriculture and technical systems, students attain knowledge and skills related to agricultural structures design and fabrication. Students explore career opportunities, entry requirements, and industry expectations. To prepare for success, students reinforce, apply, and transfer their academic knowledge and technical skills in a variety of settings.

Agriculture Power Systems 13002400

Grade Placement: 12 **Prerequisite:** *Agricultural Structure Design and Metal Technologies* Semesters: 2 Credits: 2

To prepare students for careers in agricultural power, structural, and technical systems, students should attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the workplace; and develop knowledge and skills regarding careers, entry requirements, industry certifications, and industry expectations. This course is designed to develop an understanding of power and control systems as related to energy sources, small and large power systems, and agricultural machinery. This class will include the tractor restoration and metal fabrication projects.

Small Animal Management 13000400

Grade Placement: 10-12 Prerequisite: *Principles of AFNR*
Semester: 1, Credit: .05

This course will focus on nontraditional agricultural animal management. This class will cover management of dogs, cats, aquatic animals, and poultry. Students will learn about proper care of these animals along with how they are an important part of our society.

Equine Science 13000500

Grade Placement: 10-12 Prerequisite: *Principles of AFNR*
Semester: 1, Credit: .05

A course designed to develop knowledge and skills pertaining to the selection, nutrition, reproduction, health, and management of horses.

Livestock Production 13000300

Grade Placement: 10-12 Prerequisite: *Equine or Small Animal Mgmt* Semester: 1, Credit: 1

This course will focus on the production of traditional livestock. Students will learn about beef cattle production, sheep production, dairy cattle production, and swine production. Students will learn about animal health, animal nutrition, and marketing of livestock.

Veterinary Medical Application 13000600

Grades: 11-12 Prerequisite: *Equine Science, Small Animal Management or Livestock Production* Semesters: 1 Credit: 1

This course is designed to give students an introductory look at the veterinary world. Students will focus their study on large and small animals and the different types of illnesses and practices that veterinarians use every day in the workplace.

Advanced Animal Science 13000700

Grades: 11-12 Prerequisite: Biology and Chemistry or IPC; Algebra 1 & Geometry; and either *Equine Science, Small Animal Management and Livestock Production* Semesters: 1 Credit: 1

Advanced Animal Science examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

Practicum in Agriculture, Food and Natural Resources 13002500

Grades: 12 Prerequisite: *Level 1-3 courses* Semesters: 2 Credits: 2

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. To prepare for careers in agriculture, food and natural resources, students must attain academic skills and knowledge, acquire technical knowledge and skills related to the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

Horticulture Science 13002000

Grade Placement: 10-12 Prerequisite: *Greenhouse Operation & Production* Semester: 1, Credit: 1

This course is designed to give students knowledge about the horticultural industry. Students will learn about the understanding of common horticultural management practices as they relate to food and ornamental plant production. Students will be given the opportunity to work first hand with plants and their growing environment.

Floral Design 13001800

Grade Placement: 10-12 Prerequisite: *Greenhouse Operation & Production* Semester: 1, Credit: 1

Flowers, balloons, and more. This is a basic floral design course that will provide you with hands-on skills in arranging flowers and the "book smarts" to make a competitive arrangement. This course meets the criteria for a fine arts credit

Advanced Floral Design N1300270

Grade Placement: 11-12 Prerequisite: *Floral Design* Semester: 1, Credit: 1

Advanced Floral Design focuses on building advanced skills in floral design and providing students with a thorough understanding of the design elements and planning techniques used to produce unique specialty floral designs that support the goals and objectives of a specific occasion or event.

Greenhouse Operation and Production 13002050

Grade Placement: 10–12 Prerequisite: *Principals of AFNR*
Semester: 1, Credit: 1

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 and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.

ARTS, AUDIO VIDEO TECHNOLOGY & COMMUNICATION

Principles of Arts, Audio Video Technology, and Communications 13008200

Grade Placement: 9-12 Prerequisite: *None* Semesters: 1,
Credit: 1

Careers in the Arts, Audio/Video Technology, and Communications career cluster require, in addition to creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication.

Students will develop an understanding of the various and multifaceted career opportunities in this cluster.

Audio Video Production I and Lab 13008510

Grade Placement: 10-12 Recommended Prerequisite:
Principles of AVTC Semesters: 2 Credit: 2

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/ Video Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on pre-production, production, and post-production audio and video activities.

Audio Video Production II and Lab 13008610

Grade Placement: 11-12 Prerequisite: *Audio Video
Production I* Semesters: 2 Credit: 2

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be

expected to develop an advanced understanding of the industry with a focus on pre- production, production, and post-production activities.

Practicum in Audio Video Production 13008700

Grade Placement: 12 Prerequisite: *Audio Video
Production II/Lab* Semesters: 2 Credit: 2

Careers in audio/video production span all aspects of the audio/video communications industry. Building upon the concepts taught in Audio/Video Production II and its corequisite Audio/Video Production II Lab, 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 pre-production, production, and post-production audio and video products in a professional environment. This course may be implemented in an advanced audio/video or audio format. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

Commercial Photography I and Lab 13009110

Grade Placement: 9-12 Prerequisite: *Principles of Art,
AVTC* Semesters: 2 Credits: 2

Requirement: *Students will be required to attend a mini- mum of two (2) after school activities.*

Careers in commercial photography require skills that span all aspects of the industry from setting up a shot to delivering products in a competitive market. In addition to developing knowledge and skills needed for success in the Arts, Audio/ Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the commercial photography industry with a focus on creating quality photographs. The FHS Yearbook will also be produced in this class.

Commercial Photography II and Lab 13009210

Grade Placement: 10-12 Prerequisite: *Commercial
Photography I and Lab* Semesters: 2 Credits: 2

Requirement: *Students will be required to attend a mini- mum of two (2) after school activities.*

Careers in commercial photography span all aspects of the industry from setting up a shot to delivering products in a competitive market. 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 advanced technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality

photographs. Yearbook projects will also be produced in this class.

Practicum of Commercial Photography 13009250

Grade Placement: 12 **Prerequisite:** *Commercial Photography I and Lab* Semesters: 2 Credits: 2

Requirement: *Students will be required to attend a mini-mum of two (2) after school activities.*

Careers in commercial photography span all aspects of the industry from setting up a shot to delivering products in a competitive market. 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 advanced technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs. Yearbook projects will also be produced in this class.

Hospitality and Tourism

Introduction to Culinary Arts 13022550

Grade Placement: 9-10 **Prerequisite:** *None* Semesters: 1, Credit: 1

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 food service industry. This course is offered as a classroom and laboratory-based course.

Culinary Arts 13022600

Grade Placement: 10-12 **Prerequisite:** *Introduction to Culinary Arts* Semesters: 2 Credits: 2

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification, and will have the opportunity to obtain the ServSafe Certification at the beginning of this class to work with food. This course is offered as a laboratory-based course, where students are expected to participate in lab experiences. Students are encouraged to participate in extended learning experiences such as career and technical student organizations. Selection process required.

Advanced Culinary Arts 13022650

Grade Placement: 11-12 **Prerequisite:** *Culinary Arts* Semesters: 2 Credits: 2

Advanced Culinary Arts prepares students for occupations and higher education programs of study related to the entire spectrum of careers in the food industry. Major topics for this advanced course include: basic baking theory and skills, introduction to breads, introduction to pastry arts, nutrition, nutrition accommodations and adaptations, cost control and purchasing, and current marketing and trends. Instruction and intensive laboratory experiences include commercial applications of principles of nutritious, aesthetic, and sanitary selection, purchasing, storage, preparation, and service of food and food products; using and maintaining related tools and equipment; managing operations in food service, food science, or hospitality establishments. Intensive laboratory experiences with commercial applications are a required component of this course of study. Student laboratory experiences will be school-based and "on-the-job".

Practicum in Culinary Arts 13022700

Grade Placement: 12 **Prerequisite:** *Level 1-3 courses* Semesters: 2, Credits: 2

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 workplace.

Education and Training

Principles of Education and Training 13014200

Grade Placement: 9-11 **Prerequisites:** *None* Semesters: 1, Credit: 1

This course is designed to introduce learners to the various careers available within the Education and Training Career Cluster. Students use self-knowledge as well as educational and career information to analyze various careers within the education and Training Career Cluster.

Human Growth and Development 13014300

Grade Placement: 10-11 **Prerequisites:** *Principles of E&T* Semesters: 1 Credit: 1

Human Growth and Development is an examination of human development across the lifespan with emphasis on research, theoretical perspectives and common physical, cognitive, emotional and social developmental milestones.

healthcare industry.

Instructional Practices in Education and Training 13014400

Grade Placement: 11-12 Prerequisites: *Human Growth and Development* Semesters: 2 Credits: 2

Instructional Practices in Education and Training 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 work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators or trainers 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, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel.

Practicum in Education and Training 13014500

Grade Placement: 11-12 Prerequisites: Instructional Practices in Education and Training Semesters: 2 Credits: 2

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

Health Science

Principles of Health Science 13020200

Grade Placement: 9-12 Prerequisite: *None* Semesters: 1, Credit: 1

This course is designed to give students an overview of the therapeutic, diagnostic, health informatics, support services and biotechnology research and development systems of the

Health Science Theory/Clinical 13020410

Grade Placement: 10–12 Prerequisites: *Med Term* Semesters: 2, Credit: 2

Corequisite: Health Science Theory.

The Health Science Clinical course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development. Districts are encouraged to offer this course in a consecutive block with Health Science Theory to allow students sufficient time to master the content of both courses.

Medical Terminology 13020300

Grade Placement: 10-12 Prerequisite: Principles of HS Semesters: 1, Credit: 1

This course introduces students to the structure of medical terms, medical abbreviations and acronyms. Students will achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology and pathophysiology.

Practicum in Health Science 13020500

Grade Placement: 11-12 Prerequisite: *Health Science Theory*, Semesters: 2, Credit 2

This course is designed to develop health care specific knowledge and skills related to a variety of health careers. Students will have hands-on experiences in a lab setting, job shadowing and career preparation learning.

Principles of Exercise Science & Wellness N1302107

Grade Placement: 9-10 Prerequisite: *None* Semesters: 1, Credit: 1

The Principles of Exercise Science and Wellness course is designed to provide for the development of knowledge and skills in fields that assist patients with maintaining physical, mental, and emotional health. Students in this course will understand diet and exercise, as well as techniques to help patients recover from injury, illness, and disease. They will also learn about introductory health science topics such as employability skills, lifespan development, and ethical and legal standards.

ENGINEERING, AND MATH (STEM)

Kinesiology 1 N1302104

Grade Placement: 10-12 Prerequisite: *Principles of Ex. Science & Wellness* Semesters: 1, Credit: 1

This course is designed to introduce students to the basic concepts of kinesiology. Students will gain an understanding of body mechanics, physiological functions of muscles and movements, the history of kinesiology, and the psychological impact of sports and athletic performance. Students will also explore careers within the kinesiology field and be able to explain the societal demand for kinesiology-related jobs. Students will develop a foundation in Kinesiology I that will prepare them for upper-level courses that will dive deeper into the anatomical and physiological functions of the body and provide opportunities for an industry-certified exam such as a certified personal trainer.

Kinesiology II N1302124

Grade Placement: 11-12 Prerequisite: *Kinesiology 1* Semesters: 1, Credit: 1

The Kinesiology II course is designed to provide students an advanced level of knowledge, skills, and understanding of body composition and the effect on health, nutritional needs of physically active individuals, qualitative biomechanics, application of therapeutic modalities, appropriate rehabilitation services, and aerobic training intensity programs. The course is designed to allow students to advance their understanding of professional standards, employability skills, and ethical and legal standards. Throughout this course, students explore the healthcare/exercise business model and gain an understanding of therapeutic sports psychology. Students develop proper aerobic fitness programs and rehabilitation programs. Kinesiology II prepares students for an industry certification exam such as Certified Personal Trainer.

Project-Based Research 12701500 (First Time

Taken) (PROBS1) 12701510 (Second Time Taken)
(PROBS2) 12701520 (Third Time Taken) (PROBS3)

Grade Placement: 11-12 **Prerequisites:** Level 1-3 courses Semesters: 1 Credits: 1

Project-Based Research is a course for students to research a real-world problem. Students are matched with a mentor from the business or professional community to develop an original project on a topic related to career interests. Students use scientific methods of investigation to conduct in-depth research, compile findings, and present their findings to an audience that includes experts in the field. To attain academic success, students must have opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

SCIENCE, TECHNOLOGY,

Principles of Information Technology 13027200

Grade Placement: 9-10 Prerequisite: *None* Semesters: 1, Credit: 1

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 & Lab 13027310

Grade Placement: 10-12 Prerequisite: *Principles of Information Technology* Semesters: 2 Credits: 2

In Computer Maintenance, students will acquire knowledge of computer maintenance and create 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.

Networking and Lab 13027410

Grade Placement: 11-12 Prerequisite: *Computer Maintenance and Lab* Semesters: 2 Credit: 2

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.

Practicum in Information Technology 13028000

Grade Placement: 12 **Prerequisite:** *A minimum of two high school information technology (IT) courses* Semesters: 2, Credit: 2

In the Practicum in Information Technology, students will gain advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services, and systems. Knowledge and skills in the proper use of analytical skills and application of IT concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT

experience, and product development may be conducted in a classroom setting with an industry mentor, as an unpaid or paid internship, as part of a capstone project, or as career preparation.

MANUFACTURING

Introduction to Welding 13032250

Grade Placement: 9-12 Prerequisite: *None* Semesters: 1, Credit: 1

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. Topics include: industrial safety and health practices, hand tool and power machine use, measurement, laboratory operating procedures, welding power sources, welding career potentials, and introduction to welding codes and standards. Introduction to Welding will provide students with the knowledge, skills, and technologies required for employment in welding industries. 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 will prepare students for future success.

Welding I 13032300

Grade Placement: 10-12 Prerequisite: *Intro to Welding* Semesters: 2 Credits: 2

Students will learn OSHA safety procedures for the shop. The first year includes Oxy-fuel welding taught the first half (1/2) of the year and Arc-welding taught the last half (1/2) of the year. Learning to read blueprints will be taught throughout the year. Instruction is designed to provide job-specific training for entry-level employment in welding careers.

Students will learn OSHA safety procedures for the shop. The second year includes GMAW (Gas Metal Arc Welding- MIG) taught along with GMTAW (Gas Metal Tungsten Arc Welding-TIG) during the year. The second-year instruction enhances job-specific training for employment in welding careers.

Welding II 13032400

Grade Placement: 11-12 Prerequisite: *Welding I* Semesters: 2 Credits: 2

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.

Practicum in Manufacturing 13033000

Grade Placement: 12 Prerequisite: *Intro, Welding 1 & 2* Semesters: 2 Credits: 2

The Practicum in Manufacturing course is designed to give students supervised 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

TRANSPORTATION, DISTRIBUTION, AND LOGISTICS

Principles of Transportation Systems 13039250

Grade Placement: 9-12 Prerequisite: *None* Semesters: 1, Credit: 1

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 13039550

Grade Placement: 9-12 Prerequisite: *Principles of Transportation Systems* Semesters: 1, Credit: 1

In Automotive Basics, students gain knowledge and skills in personal safety, tool safety, and the safe application of automotive light repair practices. Knowledge includes the history of the automotive industry and automobile production. Students should apply knowledge and skills in the application, design, and production of technology in the new automotive systems. This course allows students to perform basic automotive repairs while reinforcing, applying, and transferring their academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings.

Automotive Technology I: Maintenance and Light Repair 13039600

Grade Placement: 10-12 Prerequisite: Auto Basics
Semesters: 2 Credits: 2

Automotive services include knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. In Automotive Technology, students gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach the theory of operation of automotive vehicle systems and associated repair practices.

Automotive Technology II 13039700

Grade Placement: 11-12 Prerequisite: *Automotive Technology I* Semesters: 2 Credits: 2

Automotive services include advanced knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. In Advanced Automotive Technology, students gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach the theory of operation of automotive vehicle systems and associated repair practices.

Practicum in Transportation Systems 13040450

Grade Placement: 12 Prerequisite: *Auto Tech 1*
Semesters: 2 Credits: 2

Practicum in Transportation Systems 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 experience such as internships, mentorships, independent study, or laboratories. The Practicum can be either school lab or worked based.

MISCELLANEOUS

(Taken for electives not as a program of study)

Business Information Management I 13011400

Grade Placement: 9-11 Prerequisite: *Recommend Keyboarding Skills* Semesters: 1, Credit: 1

Students will implement personal and interpersonal skills to strengthen individual performance in the workplace and society and make a successful transition to the workforce and post-secondary 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 13011500

Grade Placement: 10-12 Prerequisite: *Business Information Management I* Semesters: 1, Credit: 1

This course covers workplace technology standards in applications of word processing, spreadsheets, databases, presentation graphics, presentation and desktop information management of advanced level. Students will learn how to integrate the applications and how to convert Microsoft documents to HTML format for posting to the Internet. This course is a prerequisite for many upper-level business courses. The course is designed to prepare students to test for the Microsoft Office Specialist certification exams in Microsoft Word, Excel, PowerPoint and Access, at the core level.

Agricultural Leadership, Research and Communications N1300266

Grade Placement: 10-12 Prerequisite: One credit from courses in AFNR Cluster Semesters: 1, Credit 1

Agricultural Leadership, Research and communications focuses on challenging students to use higher level thinking skills, develop leadership abilities, employ standard research principles, and communicate agricultural positions effectively with all stakeholders.

Wildlife, Fisheries and Ecology Management 13001500

Grade Placement: 9-12 Prerequisite: *None* Semesters: 1, Credit: 1

To prepare students for careers in natural resource systems. This course examines the management of game and non- game wildlife species, fish, and aquaculture crops and their ecological needs as related to current agricultural practices.

Printing and Imaging Technology I 13009600

Grade Placement: 10-12 Prerequisite: *None* Semesters: 2, Credit: 1

Careers in printing span all aspects of the industry, including prepress, press, and finishing and bindery operations. This course will focus on prepress and provide students with an overview of the computers and software packages used for desktop digital publishing as well as the opportunity to design graphics using the computer and a variety of graphic software including Adobe InDesign and Photoshop. In addition to developing technical knowledge and

skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the printing industry with a focus on digital prepress and digital publishing.