

# GALENA PARK

INDEPENDENT SCHOOL DISTRICT



## Course Guide

2025-2026

# Galena Park Independent School District

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## Table of Contents

### Contents

### Page

#### **Planning Your High School Program.....2-12**

Planning Your High School Program .....	2
E-Graduation Toolkit Choices .....	3
Dual Credit Program Options .....	4
The Foundation High School Program & Endorsement Overview .....	5
Graduation Requirements .....	6-7
GPISD Personal Graduation Plan .....	8-9
Endorsement Selection Form .....	10
Grade Point System.....	11

#### **Course Descriptions ..... 12-39**

Language Arts .....	12-17
Mathematics .....	17-20
Science.....	20-24
Social Studies.....	24-29
Physical Education.....	30
Health Education .....	30-31
Languages Other Than English.....	31-32
Speech .....	32-33
Fine Arts .....	33-38
Electives .....	38-39

#### **Career and Technical Education (CTE).....39-71**

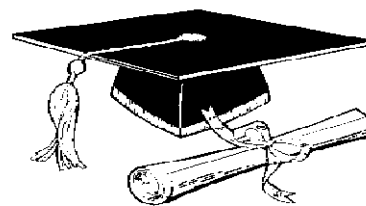
CTE Dual Credit Courses .....	40
Career Preparation I and II.....	40
Agriculture, Food, and Natural Resources Cluster .....	41-43
Architecture and Construction Cluster .....	43-44
Arts, A/V Technology, and Communications Cluster .....	44-50
Business, Marketing and Finance Cluster .....	50-54
Education and Training Cluster .....	54-55
Health Science Cluster .....	55-58
Hospitality and Tourism Cluster.....	58-59
Human Services Cluster .....	59-62
Information Technology Cluster.....	62
Law and Public Service Cluster .....	63-65
Manufacturing Cluster .....	65-66
Science, Technology, Engineering, and Mathematics Cluster.....	66-68
Transportation, Distribution, and Logistics Cluster.....	69-71

#### **HIGH SCHOOL COURSES AVAILABLE FOR 8<sup>TH</sup> GRADE .....71-73**

High School Courses Available For 8 <sup>th</sup> Grade.....	71-73
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*Revised Fall 2024*

# Planning Your High School Program



Planning a four-year high school program is a serious undertaking. Although many of your courses will be determined by the graduation plan you select, you will still have many other choices to make during your years of school. The courses you select will be guided largely by your plans for the future. Will you continue your education in college or in a technical school? Do you want to learn a career skill in order to enter the full-time work force immediately after school? Are you interested in a technical field? Are you thinking of entering a profession that requires many years of specialized education? The answers to these questions are extremely important for making decisions about your course selections for all four years in high school. Those answers should also be guided by your interests and abilities.

**Galena Park ISD offers you many ways to prepare for a productive adult life and to make certain that you can control your future.** The district's high schools provide a wide range of programs that prepare students for post-high school experiences: college, business school, technical school, military service, fine arts participation, full-time employment, and other areas. **The programs offered allow a student to choose the high school program best for him/her, whether that program is the traditional college preparatory, and/or career preparatory program.**

In the course description guide, you will find brief descriptions of each course offered in Galena Park high schools as well as the grade levels during which specified courses may be taken and any possible prerequisites. Elective courses are offered as a result of student interest. If there is insufficient enrollment for a course, or certified teachers are not available to teach the course, the course will not be offered and alternative selections will be made. Also, some courses included have not yet received final approval. Finally, some elective subjects may not be available at all high school campuses.

Pre-scheduling will take place on each campus during the spring semester for the next school year, and students are urged to plan their course selections carefully. Although students will receive specific instructions and assistance from a high school counselor during the pre-registration process, **the responsibility for selecting appropriate career and graduation choices rests with students and parents.** Students will choose specific courses with parent approval, and counselors will verify that those choices will meet graduation requirements.



# Endorsements – *Choices*

## Students can choose from 5 endorsement areas

### Science, Technology, Engineering and Mathematics (STEM)

- Career and Technical Education (CTE) courses related to STEM
- Mathematics
- Science
- Computer Science
- Combination of no more than two of the categories listed above

### Business and Industry (one of the following or a combination of areas)

- Agriculture
- Arts
- Audio/Video
- Finance
- Marketing
- Food and Natural Resources
- Hospitality and Tourism
- Information Technology
- Manufacturing
- Technology Applications
- Architecture and Construction
- Technology and Communications
- Business Management and Administration
- Transportation or Distribution and Logistics
- English electives in public speaking, debate, advanced broadcast journalism, advanced journalism including newspaper and yearbook

### Public Service (one of the following)

- Human Services
- Law
- Corrections and Security
- Health Science
- Public Safety
- Education and Training
- Government and Public Administration
- Junior Reserve Officer Training Corps (JROTC)

### Arts and Humanities (one of the following)

- 2 levels each in two languages other than English (LOTE)
- 4 levels in the same LOTE
- Courses from one or two areas (music, theater, art, dance) in fine arts
- English electives not included in Business and Industry
- Social Studies
- American Sign Language (ASL)

### Multi-Disciplinary Studies (one of the following)

- 4 advanced courses from other endorsement areas
- 4 credits in each foundation subject area, including English IV and chemistry and/or physics
- 4 credits in Advanced Placement, International Baccalaureate, or dual credit selected from English, mathematics, science, social studies, economics, LOTE or fine arts

\*Visit your school counselor to learn more about your options.  
Students may earn more than one endorsement.



# Dual Credit Program Options

## Academic Dual Credit

Students who are deemed college-ready (4000+ on English II EOC or pass the TSIA) are able to take courses for college credit. Sophomores and juniors take courses on their high school campuses. Seniors take courses on the San Jacinto College Campus. Students have the opportunity to earn a minimum of 30 hours (10 college courses) of transferable credits. Courses cost \$60\* each, if students are not eligible for the FAST program. Textbooks and transportation are provided.

*\*Students who live outside of the San Jacinto College boundaries will pay an additional fee.*

## Modified Early College Academy (MECA)

Students must have completed Advanced Algebra II in 10<sup>th</sup> grade. Students must be incoming juniors. Students must pass the TSIA or score 4000+ on the English II End-of-Course exam. Students are full-time college students and high school students. Students can take courses towards an Associate Degree (approximately 60 college hours or 20 college courses). Students are required to attend classes during the summer. Transportation is provided to and from San Jacinto College.

For additional information contact:

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GPHS – Demina Nickerson

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832-386-2837

## CTE Technical Dual Credit

Students enrolled in a Technical Dual Credit program are able to take technical courses such as: Air Conditioning/Heating, Auto Collision Repair, Cosmetology, Diesel Technology, Medical Assisting, Maritime & Logistics, Electrical Technology, Process Technology, Pipe Fitting, Emergency Medical Technician and Welding. Students must be a junior to be eligible to earn a certificate. Most classes are held Monday – Friday at various times.

For additional information contact:

NSSH – Felicia Oliver

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832-386-4119

GPHS – Carmen Guereque

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832-386-2992

## CTE Early College High School (ECHS)

Students are selected to attend the Early College High School using a lottery system. Students will have the opportunity to take courses towards a certification or associate degree program. Programs of study include health related and technology related courses. Students must pass the RLA STAAR exam in the 7<sup>th</sup> grade to be eligible. Students must have good attendance and excellent discipline.

For additional information contact:

Dr. Jeff Hutchinson

[jhutchinson@galenaparkisd.com](mailto:jhutchinson@galenaparkisd.com)

832-386-2280 or 281-459-7198

## The Foundation High School Program & Endorsement Overview

The following requirements apply to students entering the 9<sup>th</sup> grade beginning in the 2014-2015 school year

COURSE	COURSE REQUIREMENTS	REQUIRED CREDITS
ENGLISH	Must include English I, English II, English III and an advanced English course	4
MATHEMATICS	Must include Algebra, Geometry, and an advanced math course	3
SCIENCE	Must include one Biology credit, one credit from IPC, Chemistry or Physics and an additional advanced	3
SOCIAL STUDIES	Must include World Geography or World History, United States History, Government and Economics or Personal Financial Literacy and Economics	3
OTHER LANGUAGES	Must consist of two levels in the same language	2
FINE ARTS	May include Choir, Band, Dance, Art, Theatre Art or other applicable substitutions	1
PHYSICAL EDUCATION	May include PE, Foundations of Personal Fitness, Team or Individual Sports, JROTC or other applicable substitutions; <i>Drill Team, Band and Cheerleading may earn ½ credit in fall semester only</i>	1
ELECTIVES	Credits must be selected from the list of eligible courses that do not satisfy a specific course requirement	5
TOTAL FOUNDATION HIGH SCHOOL PROGRAM (FHSP) CREDITS		22

COURSE	COURSE REQUIREMENTS	REQUIRED CREDITS
MATHEMATICS	Additional math course	1
SCIENCE	Additional science course	1
ADDITIONAL ELECTIVES	Electives must be chosen from one of the five endorsements	2
TOTAL CREDITS: FHSP + ENDORSEMENTS		26

ENDORSEMENTS	RECOGNITIONS	STATE ASSESSMENT PERFORMANCE
<p>There are five endorsement options, which allow students flexibility based on individual interests and career goals.</p> <p>The endorsement areas are as listed below:</p> <ul style="list-style-type: none"> <li>STEM</li> <li>PUBLIC SERVICE</li> <li>BUSINESS &amp; INDUSTRY</li> <li>ARTS &amp; HUMANITIES</li> <li>MULTIDISCIPLINARY STUDIES</li> </ul>	<p>Students have the opportunity to earn additional recognitions in the following areas.</p> <p>PERFORMANCE ACKNOWLEDGEMENTS:</p> <ul style="list-style-type: none"> <li>AP test score of 3 or higher or IB score of 4 or higher</li> <li>Bilingualism and biliteracy</li> <li>Dual credit (12 hours with 3.0 or higher)</li> <li>High performance on PSAT, SAT or ACT</li> <li>Earning a business and industry certification or license</li> </ul>	<p>In addition to the credit requirements as listed above, students must meet passing standards on the following End-of-Course Exams:</p> <ul style="list-style-type: none"> <li>ENGLISH I</li> <li>ENGLISH II</li> <li>ALGEBRA I</li> <li>BIOLOGY</li> <li>UNITED STATES HISTORY</li> </ul>
<p style="text-align: center;"><b>DISTINGUISHED LEVEL OF ACHIEVEMENT:</b> Completion of four math credits including Algebra II, four science credits and requirements for at least one endorsement.</p>		

*All students in GPISD are expected to graduate with successful completion of at least one endorsement.*

# Graduation Requirements

Students entering grade 9 in the 2011–12 school year and thereafter must pass STAAR/End of Course (EOC) assessments and fulfill state graduation credits to be eligible to participate in the high school graduation ceremony.

Students entering grade 9 during the 2014–2015 school year and thereafter have the following graduation plans listed below:

- The Foundation High School Program requires successful completion on 22 state-approved credits. Access to this program requires written permission from the counselor and parent only after the completion of the 10th grade year.
- The Foundation High School Program Plus Endorsement requires successful completion of 26 state-approved credits.
- The Distinguished Level of Achievement includes successfully completing the curriculum requirements for the Foundation High School Program and the curriculum requirements for at least one endorsement, including four credits in science and four credits in mathematics, to include Algebra II.

## STAAR Assessment

### Graduation Plans

High School Students will be required to successfully complete five End of Course (EOC) assessments for all graduation plans. The tests are administered three times a year with opportunities for retakes if the student does not earn a minimum passing score.

The tests are administered for the following courses:

**Algebra I, English I, English II, Biology, US History**



Foundation Only 22 Credits	Foundation + Endorsement 26 Credits	Distinguished Level of Achievement 26 Credits
<ul style="list-style-type: none"> <li><b>English (4 credits)</b> <i>English I, II, III, IV or one credit in an advanced English course</i></li> <li><b>Mathematics (3 credits)</b> <i>Algebra I, Geometry, two credits in an advanced math course</i></li> <li><b>Science (3 credits)</b> <i>Biology, IPC or Chemistry or Physics, and an additional advanced science course</i></li> <li><b>Social Studies (3 credits)</b> <i>US History, Government, Economics or Personal Financial Literacy and Economics, World Geography or World History</i></li> <li><b>Language other than English (LOTE) or Computer Science (2 credits)</b> 2 years-same language</li> <li><b>Physical Education (1 credit)</b></li> <li><b>Fine Arts (1 credit)</b></li> <li><b>Electives (5 credits)</b> <i>Including CTE courses</i></li> <li>Students may opt to Foundation only with signed parental permission.</li> </ul>	<ul style="list-style-type: none"> <li><b>English (4 credits)</b> <i>English I, II, III, IV or one credit in an advanced English course</i></li> <li><b>Mathematics (4 credits)</b> <i>Algebra I, Geometry, two credits in an advanced math course</i></li> <li><b>Science (4 credits)</b> <i>Biology, IPC or Chemistry or Physics, and an additional advanced science course</i></li> <li><b>Social Studies (3 credits)</b> <i>US History, Government, Economics or Personal Financial Literacy and Economics, World Geography or World History</i></li> <li><b>Language other than English (LOTE) or Computer Science (2 credits)</b> 2 years-same language</li> <li><b>Physical Education (1 credit)</b></li> <li><b>Fine Arts (1 credit)</b></li> <li><b>Electives (5 credits)</b> <i>Including CTE courses</i></li> <li>Elective credits are related to endorsement Program of Study.</li> </ul>	<ul style="list-style-type: none"> <li><b>English (4 credits)</b> <i>English I, II, III, IV or one credit in an advanced English course</i></li> <li><b>Mathematics (4 credits)</b> <i>Algebra I, Geometry, Algebra II, one credit in an advanced math course</i></li> <li><b>Science (4 credits)</b> <i>Biology, IPC or Chemistry or Physics, and an additional advanced science course</i></li> <li><b>Social Studies (3 credits)</b> <i>US History, Government, Economics or Personal Financial Literacy and Economics, World Geography or World History</i></li> <li><b>Language other than English (LOTE) or Computer Science (2 credits)</b> 2 years-same language</li> <li><b>Physical Education (1 credit)</b></li> <li><b>Fine Arts (1 credit)</b></li> <li><b>Electives (5 credits)</b> <i>Including CTE courses</i></li> <li>Elective credits are related to endorsement Program of Study.</li> </ul>

STEM	Business & Industry	Public Service	Arts & Humanities	Multidisciplinary
Science, Technology, Engineering and Math Agriculture, Food and Natural Resources Architecture and Construction (Interior design) Arts, Audio/Video, Technology and Communications Business Management & Administration Hospitality & Tourism Information Technology Manufacturing	Agriculture, Food and Natural Resources Architecture and Construction (Interior design) Arts, Audio/Video, Technology and Communications Business Management & Administration Hospitality & Tourism Information Technology Manufacturing Transportation, Distribution, and Logistics	Education & Training Health Science Human Services Law, Public Safety, Corrections and Security	Art courses related to visual, drawing, sculpture, and ceramics Music including Band & Choir Theater including Technical and Production Dance LOTE Social Studies	4 English 4 Math 4 Sciences 4 Social Studies Or 4 Advanced Courses - AP or Dual Credit
*These Endorsement Pathways require a coherent sequence of CTE courses in a targeted area of study. NOTE: Not all career endorsement pathways are offered at every secondary campus.				
Required State Assessments		Performance Acknowledgments		
English I	US History	Outstanding Performance: Dual Credit coursework, Bilingualism/Biliteracy, AP Exam, PSAT, SAT, or ACT		Certification: Nationally or internationally recognized business or industry certificate or license
English II	Biology			
Algebra I				



# Galena Park ISD

## Personal Graduation Plan

### Class of 20\_\_ - 20\_\_

**Name:** \_\_\_\_\_ **Date of Birth:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
**Year Entered HS:** \_\_\_\_\_ **Graduation Year:** \_\_\_\_\_ **Campus:** \_\_\_\_\_

STUDENT ASSESSEMENT INFORMATION				
Special Program Information	EOC Mastery	Endorsement Selection(s)	College Testing	Distinguished Achievement
___ Special Education ___ 2 <sup>nd</sup> Language Learner ___ 504	___ English I ___ English II ___ Algebra I ___ Biology ___ US History	___ STEM ___ Business & Industry ___ Public Services ___ Arts & Humanities ___ Multidisciplinary	PSAT _____ ACT _____ SAT _____ TSIA _____	___ Algebra II ___ 4 <sup>th</sup> Math ___ 4 <sup>th</sup> Science ___ Endorsement Completion

PERFORMANCE ACKNOWLEDGEMENTS				
Dual Credit	Bilingualism	AP/IB Exams	College Testing	Certification
___ 12 DC hours (3.0 or higher GPA)  ___ Earn an associate degree	___ Complete all ELA requirements with 80 or higher grade average AND  ___ Satisfy one of the following: <ul style="list-style-type: none"> <li>3 LOTE credits with 80 average</li> <li>Level IV in LOTE with 80 average or</li> <li>3 or higher on AP Exam</li> </ul>	___ AP Exam score of 3 or higher  ___ IB Exam score of 4 or higher	___ ACT Composite of 28  ___ SAT Combined score of 1250 (Prior to 3/2016)  ___ SAT Combined score of 1310 [ 410 EBRW and 520 Math] (After 3/2016)  ___ PSAT/NMSQT Scholar	___ Obtain nationally or internationally recognized business or industry certification from TEA approved list.

ACCELERATION/REMEDIAL ACTIVITIES		
<b>Program</b>  Summer School _____ Credit Recovery _____ EOC Remediation _____ Tutorials _____ Attendance/Discipline Monitoring _____  <b>Other Activities</b> _____ _____ _____	<b>Year</b>  _____ _____ _____ _____ _____	<p><i>The importance of a high school graduation plan that includes one or more Endorsements with the Distinguished Level of Achievement and the importance of post-secondary education, automatic admissions, and eligibility for financial aid have been explained to me.</i></p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 60%;"> <b>Signature of Student</b> _____   <b>Signature of Parent</b> _____   <b>Signature of Counselor</b> _____             </div> <div style="width: 35%;"> <b>Date</b> _____   <b>Date</b> _____   <b>Date</b> _____             </div> </div>

_____ <b>Student Signature</b>	_____ <b>Date</b>	_____ <b>Counselor Signature</b>	_____ <b>Date</b>
_____ <b>Student Signature</b>	_____ <b>Date</b>	_____ <b>Counselor Signature</b>	_____ <b>Date</b>
_____ <b>Student Signature</b>	_____ <b>Date</b>	_____ <b>Counselor Signature</b>	_____ <b>Date</b>

**FOR INFORMATIONAL PURPOSE ONLY**

**House Bill 5 Endorsement Evaluation for Students Entered 2022-2023 or Later**

Required Core Courses				
English I	Algebra I	Biology	World Geo/ World Hist/ Human Geo AP	
English II	Geometry	IPC/Chemistry	US History	
English III	Algebra II or Other	Physics or Other	Government	
English IV or Other	Fourth Math	Fourth Science	Economics	
Other Required Courses				
Fine Art	LOTE I	LOTE II	PE	
<b>All required courses are Complete (C)</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>OR In Progress (IP)</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Transcript reflects 26 credits or more</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>OR In Progress (IP)</b> <input type="checkbox"/> Yes <input type="checkbox"/> No				
STEM Endorsement – Must have Algebra II, Chemistry and Physics				
<b>Option A</b>	<b>Option B</b>	<b>Option C</b>	<b>Option D</b>	
STEM Program of Study Completed (POS)? <input type="checkbox"/> Yes <input type="checkbox"/> No POS: _____	Two math credits with Algebra II as prerequisite 5th Math Credit: _____	Two science credits beyond Physics 5th Science Credit: _____	Combination from two: Option A, B, or C 3 Credits _____	
Business & Industry				
<b>Option A</b>	<b>Option B</b>		<b>Option C</b>	
B & I Program of Study Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No POS: _____	<b>English Electives:</b> Journalism/Newspaper Debate/ Yearbook Public Speaking 4 Credits _____ 3 Levels from one area _____		Combination of 4 Credits from A, B or C in a coherent sequence 4 Credits _____	
Public Service				
<b>Option A</b>	<b>Option B</b>			
Public Service Program of Study Completed? <input type="checkbox"/> Yes <input type="checkbox"/> No POS: _____	JROTC 4 Credits in JROTC _____			
Arts and Humanities				
<b>Option A</b>	<b>Option B &amp; D</b>	<b>Option C</b>	<b>Option E</b>	<b>Option F</b>
Social Studies (5 Credits) 2 SS credits _____	LOTE / Sign Language (4 Credits) Level III/IV _____	LOTE Combo (4 Credits) 2 Levels Alt LOTE _____	Fine Arts from one or two areas (4 credits) 3 FA Credits _____	English Electives (4 credits) 3 English credits _____
Multidisciplinary				
<b>Option A (CTE)</b>	<b>Option B</b>		<b>Option C</b>	
Workforce/Post-Secondary Education: CTE 4 Credits (Advanced) _____	4X4 (English, Math, Science, SS) Must have English IV, Chemistry or Physics and 4 <sup>th</sup> SS English IV/ Chemistry or Physics/ 4 <sup>th</sup> SS _____		AP/Dual Credit: ELA/Math/Science/SS/LOTE/FA 4 credits: AP or DC _____	

**Financial Aid**

**Applied for Financial Aid:** Yes \_\_\_\_\_ No \_\_\_\_\_

**Opt-Out:** Yes \_\_\_\_\_ No \_\_\_\_\_

**Applied By:**    ☐ Parent/Guardian    ☐ Student    ☐ Counselor



## Galena Park ISD House Bill 5 – Endorsement Selection Form

Student Name: \_\_\_\_\_ ID# \_\_\_\_\_ Projected Graduation Year: \_\_\_\_\_

Your child is currently enrolling under the Foundation High School Plan outlined under House Bill 5. As required under the new graduation plan, incoming high school students and their parents must select **one or more** of the five graduation endorsements currently offered under the graduation plan.

**You and your child will need to select one of the endorsements listed below, sign and return this form to your child's counselor.**

### Endorsement Selections:

- ☐ **STEM (Science, Technology, Engineering and Math) will include courses directly related to:**
- ❖ Advanced mathematics
  - ❖ Engineering
  - ❖ Science, including environmental science
  - ❖ Technology, including computer science
- ☐ **Business and Industry will include courses directly related to:**
- ❖ Accounting
  - ❖ Agriculture science
  - ❖ Architecture
  - ❖ Automotive technology
  - ❖ Communications
  - ❖ Culinary arts and Hospitality
  - ❖ Finance
  - ❖ Graphic design
  - ❖ Heating, ventilation and air condition
  - ❖ Information technology
  - ❖ Logistics
  - ❖ Marketing
  - ❖ Video Game Design
  - ❖ Welding
- ☐ **Arts and Humanities will include courses directly related to:**
- ❖ Cultural Studies
  - ❖ English Literature
  - ❖ Fine Arts
  - ❖ History
  - ❖ Political Science
  - ❖ World Languages
- ☐ **Public Service will include courses directly related to:**
- ❖ Cosmetology
  - ❖ Education and training
  - ❖ Health sciences and occupations
  - ❖ Law enforcement
- ☐ **Multidisciplinary Studies will include courses directly related to:**
- ❖ Combination of courses from each of the endorsement areas of STEM, Business and Industry, Arts and Humanities and Public Service. This endorsement is for students who do not complete one of the other four endorsements.

Though we will make every effort to place your child in the elective courses of their choice, please note the following may limit elective course selections:

- Students who have not passed the required STAAR/ EOC exams will be placed in support courses
- Sponsor approved courses will not be added to a student's schedule until a roster is received from the sponsor listing the child's name

**My child and I agree with the endorsement selection above and do not wish to add any others at this time.**

Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Parent Signature: \_\_\_\_\_ Date: \_\_\_\_\_



## Grade Point System\*

Numerical Grade	Advanced Placement Courses	Advanced Courses	Academic Courses
100	6.00	5.00	4.00
99	5.90	4.90	3.90
98	5.80	4.80	3.80
97	5.70	4.70	3.70
96	5.60	4.60	3.60
95	5.50	4.50	3.50
94	5.40	4.40	3.40
93	5.30	4.30	3.30
92	5.20	4.20	3.20
91	5.10	4.10	3.10
90	5.00	4.00	3.00
89	4.90	3.90	2.90
88	4.80	3.80	2.80
87	4.70	3.70	2.70
86	4.60	3.60	2.60
85	4.50	3.50	2.50
84	4.40	3.40	2.40
83	4.30	3.30	2.30
82	4.20	3.20	2.20
81	4.10	3.10	2.10
80	4.00	3.00	2.00
79	3.90	2.90	1.90
78	3.80	2.80	1.80
77	3.70	2.70	1.70
76	3.60	2.60	1.60
75	3.50	2.50	1.50
74	3.40	2.40	1.40
73	3.30	2.30	1.30
72	3.20	2.20	1.20
71	3.10	2.10	1.10
70	3.00	2.00	1.00
Below 70	0	*	0

Letter Grade	Academic Dual Credit Courses	Technical Dual Credit Courses
A	5.45	4.7
B	4.45	3.7
C	3.45	2.7
D	2.45	1.7
F	0	0

\*The District shall only include in the calculation of class rank semester grades earned in high school credit courses on a student's schedule taken in grades 9-12 unless excluded in EIC(local).

## COURSE DESCRIPTIONS

This section of the planning guide contains descriptions of all courses offered in grades nine through twelve in Galena Park ISD. Descriptions are divided into content areas and include information about course content, grade placement, prerequisites, and credits. Unless otherwise indicated for the specific course description, credit is awarded or denied at the end of each semester.

## LANGUAGE ARTS

### Maximum Grade Points earned for:

- Academic Courses – 4 points
- Advanced Courses – 5 points
- Core Dual Credit Courses – 5.75 points
- Advanced Placement Courses – 6 points
- \* Locally designated Advanced Courses for weighted GPA

### English I

English I develops the skills in standard English, vocabulary, composition, research, and reading in an integrated thematic approach.

**Grade Placement: 9**

**1 credit**

**Prerequisite: None**

### English I for Speakers of Other Languages

These courses provide listening, speaking, reading, and writing activities from simple to complex in order to increase the student's language usage and comprehension skills. Each course is for students with limited English skills.

**Grade Placement: 9-12**

**1 credit**

**Prerequisite: Language Proficiency Assessment Committee (LPAC) Approval**

### English I Advanced

This course will begin an extensive and intensive study of language, literature, and composition designed to fulfill the goals of the Advanced Placement curriculum; to become skilled and careful readers of literary and informational text by reading and analyzing challenging works; to become mature writers of expository, analytical, and argumentative essays through extensive practice and helpful criticism; to develop an awareness of the effect of and an ability to skillfully use the conventions of language: syntax, word choice, and tone. Students should be willing to read complex texts outside of class in preparation for class discussion and analysis.

**Grade Placement: 9**

**1 credit**

**Highly recommended if attending a 4-year college/university**

### English II

English II includes multicultural literature and attention to standard English, composition, research, and vocabulary skills.

**Grade Placement: 10**

**1 credit**

**Prerequisite: English I**

**English II for Speakers of Other Languages**

These courses provide listening, speaking, reading, and writing activities from simple to complex in order to increase the student's language usage and comprehension skills. Each course is for students with limited English skills.

**Grade Placement: 9-12** **1 credit**

**Prerequisites: Language Proficiency Assessment Committee (LPAC) Approval  
English I for Speakers of Other Language**

**English II Advanced**

Stretching students' reading, writing, listening, speaking, and thinking skills, this in-depth study of literature emphasizes critical and creative responses to works of fiction, nonfiction, poetry, and drama as it concurrently provides occasions and audiences for all types of expository discourse.

**Grade Placement: 10** **1 credit**

**Prerequisite: English II**

**Highly recommended if attending a 4-year college/university**

**English III**

Through representative readings from historical documents, essays, dramas, short stories, poetry, and novels, this course provides a survey of literature that integrates the studies of grammar, vocabulary, and research in meaningful writing experiences that stem from the core readings.

**Grade Placement: 11** **1 credit**

**Prerequisite: English II**

**English III AP**

English III AP engages students in becoming skilled readers and writers of prose through rhetoric, diction, syntax, and structural analysis of others' and one's own writing. Students prepare to take the Advanced Placement Language and Composition test.

**Grade Placement: 11** **1 credit**

**Prerequisite: English II**

**Highly recommended if attending a 4-year college/university**

**College Prep English**

This course is for 12th grade students who do not meet the college-readiness standards on an EOC assessment, or whose coursework, college entrance exam, or TSI assessment score indicates the student is not ready for entry-level college coursework and to prepare students for success in entry-level college courses. In addition, the course will strengthen communication skills (reading, writing, listening, and speaking) to empower college/employment-bound students for success in their post-high school endeavors.

**Grade Placement: 12** **1 credit**

**Prerequisite: English III**

**English IV**

This integrated study of English literature, World composition, grammar, research, and vocabulary reinforces the critical reading and writing skills essential for college entrance and success beyond formal education.

**Grade Placement: 12** **1 credit**

**Prerequisite: English III**

### **English IV AP**

English IV AP concentrates on active reading and critical analysis of structure, style and themes of complex literature. Students write to explore and evaluate literature and to develop their own stylistic maturity. Students prepare to take the Advanced Placement Literature Composition Test.

**Grade Placement: 12**

**1 credit**

**Prerequisite: English III**

**Highly recommended if attending a 4 year college/university**

### **English IV Dual Credit**

In this college freshman English class taught by an instructor at San Jacinto College, a student can earn up to six-semester hours college credit while concurrently earning high school credit. The student must either pass the TSIA prior to beginning the class or meet SAT or ACT exemption.

**Grade Placement: 12**

**6 hrs./1 credit**

**Highly recommended if attending a 4-year college/university**

## **English Language Arts Elective Courses**

### **Broadcast Journalism I**

### **Broadcast Journalism II**

### **Broadcast Journalism III★**

Broadcast Journalism teaches students broadcast reporting, announcing, and technical skills required to plan, produce, and broadcast radio and/or television news programs using locally available equipment on that campus. Students will learn editing, news judgment, ratings, shot selection, and ethics. Students will be required to complete some assignments outside of class, at night, and on weekends. Students may be required to provide their own transportation.

**Grade Placement: 10-12**

**1 credit**

**Prerequisite: Journalism**

### **Business English (BUSENGL)**

Students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students will plan, draft, and complete written compositions on a regular basis, and edit their papers for clarity, engaging language, and the correct use of the conventions and mechanics of written English. **This course will count as a fourth English credit for students on**

**Minimum Graduation Plan.**

**Grade Placement: 11-12**

**1 credit**

**Prerequisite: English II**

### **English Language Development and Acquisition (ELDA)-I**

The course provides instructional opportunities for secondary recent immigrant students with little or no English proficiency. It will develop social language, survival vocabulary, and the basic building blocks of literacy for newly arrived and preliterate students. The courses will validate a student's native language and culture as a valuable resource and a foundation for attaining the English language. It will provide listening, speaking, reading, and writing activities from simple to complex in order to increase the student's language usage and comprehension skills.



**Grade Placement: 9-12**

**Corequisite: English I for Speakers of Other Languages**

**Prerequisite: Language Proficiency Assessment Committee (LPAC) Approval - New Arrival Program Placement**

**Creative Writing**

Students will enjoy several types of writing such as a personal journal, expressive writing, and fiction as they experiment with form and technique.

**Grade Placement: 9-12**

**½ - 1 credit**

**English Literary Genres**

Literary Genres is a reading review course designed to strengthen students' reading comprehension skills. STAAR objectives are covered in detail in a study of short story, drama, and poetry. Writing requirements are fairly minimal. Non-mastery of reading or writing STAAR is prerequisite.

**Grade Placement: 12**

**½ - 1 credit**

**English Practical Writing**

Practical Writing is a composition review course with emphasis on types of writing such as resumes, business letters, and letters of inquiry.

**Grade Placement: 12**

**½ - 1 credit**

**Humanities (Decathlon)**

Humanities examines and analyzes historical and cultural movements as reflected in various art forms; the conditions that encourage creativity; and the manner in which art responds to political, social, and philosophical movements. Critical reading and writing are stressed.

**Grade Placement: 12**

**½ credit**

**Prerequisite: Meet Specific Requirements**

**Journalism**

This class is an introduction to reporting, design, and publishing. The majority of the class focuses on the skills necessary to work as a modern media reporter. Students will study interviewing, news gathering, copy writing, editing, design technique, ethics, desktop publishing, and history. Students who successfully complete Journalism are eligible to apply for membership on the newspaper or yearbook staff.

**Grade Placement: 9-12**

**½ - 1 credit**

**Newspaper Productions I**

**Newspaper Productions II**

**Newspaper Productions III★**

Students are responsible for the production, design, and content of the newspaper every six weeks. Students will learn skills in copy writing, editing, design, photography, desktop publishing, ethics, leadership, and advertising. Students will be required to attend after school meetings and sell advertising as required on the course syllabus as a part of the course grade.

**Grade Placement: 9-12**

**1 credit**

**Prerequisite: Journalism or Photojournalism and specific requirements.**

**(Student must sign up for the entire yearlong course)**

**Newspaper Production III: Successful completion of Newspaper I & II**

### **Photojournalism**

Photojournalism teaches basic photography skills with an emphasis on publication of the photos. Students study black and white, color, and digital photography methods as well as ethics, history, photographic composition, and photo editing. Students who successfully complete Photojournalism are eligible to apply for membership on the newspaper or yearbook staff. Students may be required to purchase some items such as film, camera, paper, etc. as required on the course syllabus.

**Grade Placement: 9-12**

**½ - 1 credit**

### **Reading Dyslexia**

This class is open to students who exhibit characteristics of dyslexia or a related disorder. Students work to improve their reading, writing, and spelling skills in a sequential, sequenced, and multi-sensory program.

**Grade Placement: 9-12**

**½ - 1 credit**

**Prerequisite: Dyslexia Screening**

### **Reading I**

Students learn how to read for different purposes including all their academic and elective subjects. Students work on decoding and comprehension skills.

**Grade Placement: 9-12**

**½ - 1 credit**

### **Reading I ESL**

This class is open to English language learners who are developing decoding and comprehension skills in English. This course is designed to be taken in conjunction with English I for Speakers of Other Languages.

**Grade Placement: 9-12**

**½ - 1 credit**

**Prerequisite: Language Proficiency Assessment Committee (LPAC) Recommendation**

### **Reading II**

Students continue to develop their comprehension skills. Much more emphasis is placed on critical thinking including application to students' everyday lives. The importance of literacy both in print form and the computer will be stressed.

**Grade Placement: 9-12**

**½ - 1 credit**

### **Reading II ESL**

This class is open to English language learners with an emphasis on comprehension skills necessary to pass the state exam. This course is designed to be taken in conjunction with English I for Speakers of Other Languages.

**Grade Placement: 9-12**

**½ - 1 credit**

**Prerequisite: Language Proficiency Assessment Committee (LPAC) Recommendation**

### **Reading III**

Students read a variety of literary forms in support of their becoming active, life-long readers. Students respond to literature through writing and on the computer.

**Grade Placement: 9-12**

**½ - 1 credit**

### **Research/Technical Writing (Decathlon)**

Through practice and hands-on experience, students learn the fundamentals of business writing and produce research papers following formats required by most colleges and universities. In addition, students gain understanding of primary research and practice modern research techniques.

**Grade Placement: 12**

**½ credit**

**Prerequisite: Meet Specific Requirements**

### **Research/Technical Writing**

Through practice and hands-on experience, students learn the fundamentals of business writing and produce research papers following formats required by most colleges and universities. In addition, students gain understanding of primary research and practice modern research techniques.

**Grade Placement: 12**

**½ - 1 credit**

### **Yearbook Productions I**

### **Yearbook Productions II**

### **Yearbook Productions III★**

### **Yearbook Productions IV★**

The yearbook staff publishes the school yearbook in the spring semester of each year. Students are responsible for the production, design, editing, photography, desktop publishing, ethics, leadership, and advertising. Students will be required to attend after school meetings and sell advertising as required on the course syllabus as part of the course grade.

**Grade Placement 9-12**

**1 credit**

**Prerequisite: Meet Specific Requirements**

**(Students must sign up for entire yearlong course)**

**Yearbook Productions IV: Successful completion of Yearbook Productions I, II, and III**

## **MATHEMATICS**

**Maximum Grade Points earned for:**

- **Academic Courses** – 4 points
- **Advanced Courses** – 5 points
- **Core Dual Credit Courses** – 5.75 points
- **Advanced Placement Courses** – 6 points
- ★ **Locally designated Advanced Courses for weighted GPA**

### **Algebra I**

Algebra I is the branch of mathematics characterized by the use of variables (letters used to represent numbers) and operations with variables. Students use a variety of representations (concrete, pictorial, numerical, symbolic, graphical, and verbal), tools, and technology (including calculator applications with graphing capabilities) to model mathematical situations and solve meaningful problems.

**Grade Placement: 9**

**1 credit**

### **Geometry**

Geometry is the study of geometric figures and their properties. Instruction will focus on geometric thinking, spatial reasoning and the relationship between geometry and other fields of mathematics. Students use a variety of representations, tools, and technology to solve meaningful problems by representing and transforming figures and analyzing relationships.

**Grade Placement: 10-11**

**1 credit**

### **Geometry Advanced**

This course is an intensified study of the concepts presented in Geometry.

**Grade Placement: 9**

**1 credit**

### **Mathematics Models with Applications**

Students will use algebraic, graphical, and geometric reasoning to recognize patterns and structure, to model information, and to solve problems from various disciplines. Topics involved are probability, personal finance, budgeting, personal taxes, banking services, investments, decision-making strategies, mortgages, automobile purchases, and insurance.

**Grade Placement: 10** **1 credit**

**Prerequisite: Algebra I**

### **Algebra II**

Students will make connections between algebra and geometry concepts and use the tools of one to help solve problems in the other. Functions and equations are used to analyze and understand a broad variety of relationships and as a useful tool for expressing generalizations.

**Grade Placement: 10-11** **1 credit**

**Prerequisite: Algebra I**

**Highly recommended if attending a 4-year college/university**

### **Algebraic Reasoning**

Students will broaden their knowledge of functions and relationships. They will study these functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build to workforce and college readiness such as probes, measurement tools, and software tools, including spreadsheets.

**Grade Placement: 11** **1 credit**

**Prerequisite: Algebra I**

### **Algebra II Advanced**

This course is an intensified study of the concepts presented in Algebra II.

**Grade Placement: 10** **1 credit**

**Prerequisite: Algebra I**

**Highly recommended if attending a 4-year college/university**

### **Statistics**

Students will study the major concepts and tools for collecting, analyzing, and drawing conclusions from data. They will observe patterns and departures from patterns, decide on how to measure data, produce models using probability theory and simulations, use hypothesis testing, and confirm models.

**Grade Placement: 11-12** **1 credit**

**Prerequisite: Algebra I**

### **Pre-Calculus**

This course provides a thorough grounding in trigonometry, including the trigonometric ratios, their graphs and their use in solving triangular relationships. It also covers extensive work with identities, inverse functions, vectors, complex numbers, and the polar coordinate system.

**Grade Placement: 11-12** **1 credit**

**Prerequisite: Algebra II**

**Highly recommended if attending a 4-year college/university**

### **Pre-Calculus Dual Credit**

In this college freshman math class taught in the fall and spring semesters by an instructor at San Jacinto College, a student may earn up to 6 college hours for Elementary Functions and Trigonometry



concurrently earning Pre-Calculus credit. The student must either pass the TSIA prior to beginning the class or meet SAT or ACT exemption.

**Grade Placement: 11- 12**

**up to 6 hours/1 credit**

**Prerequisite: Advanced Algebra II**

**Highly recommended if attending a 4-year college/university**

**12 hours of Dual Credit with a 3.0 GPA will earn a Performance Acknowledgement**

### **AP Pre-Calculus**

This course provides a thorough study of functions and the various properties associated with functions. The course provides an intensive study of trigonometry, identities, vectors, complex numbers, polar coordinates, and parametric equations. Opportunity will be provided for students to take the College Board Advanced Placement Exam in Pre-Calculus AP in the spring.

**Grade Placement: 11-12**

**1 credit**

**Prerequisite: Algebra II Advanced and an ACT math score of 16**

**Highly recommended if attending a 4-year college/university**

### **College Prep Math**

The intention of this course is to bridge the gap between high school Algebra II and College Algebra. Developed in conjunction with San Jacinto College District and the University of Texas (UT) Dana Center, the course will include a study of functional relationships, statistics, polynomials, exponents, radicals and systems of equations.

**Grade Placement: 12**

**1 credit**

**Prerequisite: Algebra II**

### **Financial Mathematics**

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. Financial Mathematics will integrate career and postsecondary education planning into financial decision making including services for financial and investment planning, banking, insurance, and business financial management.

**Grade Placement: 10-12**

**1 credit**

**Prerequisite: Algebra I**

### **Contemporary Mathematics Dual Credit**

This course is designed to introduce students to basic and intermediate concepts of number sense and quantitative analysis. The course is designed to help students conceptualize abstract quantitative concepts as they relate to real world problems and everyday life. The course covers logic, basic number sense, algebraic concepts, geometry and visual modeling, and probability. This course will additionally provide students with the knowledge and skills to manage financial resources.

**Grade Placement: 12**

**1 credit**

**Prerequisite: Geometry and Algebra II**

### **Statistics AP**

Students will study the major concepts and tools for collecting, analyzing, and drawing conclusions from data. They will observe patterns and departures from patterns, decide on how to measure data, produce models using probability theory and simulations, use hypothesis testing, and confirm models. Opportunity will be provided for students to take the College Board Advanced Placement Exam in Statistics AP in the spring.

**Grade Placement: 11-12** **1 credit**

**Prerequisite: Algebra II**

**Highly recommended if attending a 4-year college/university**

**A score of 3 or above on an Advanced Placement exam will earn a Performance Acknowledgement**

### **Statistics Dual Credit**

College Statistics taught by an instructor at San Jacinto College will earn high school credit and up to 3 college hours. The student must either pass the TSIA before beginning the class or meet the SAT or ACT exemption.

**Grade Placement: 11-12** **up to 3 hrs./½ credit**

**Prerequisite: Algebra I**

**Highly recommended if attending a 4-year college/university**

**12 hours of Dual Credit with a 3.0 GPA will earn a Performance Acknowledgement**

### **Calculus AB AP**

The topics of study for this course are limits and continuity, the derivative, the fundamental theorem of calculus, special functions, techniques of integration, partial derivatives, and multiple integration. Opportunity will be provided for students to take the College Board Advanced Placement Exam in Calculus AP in the spring.

**Grade Placement: 11-12** **1 credit**

**Prerequisite: Pre-Calculus**

**Highly recommended if attending a 4-year college/university**

**A score of 3 or above on an Advanced Placement exam will earn a Performance Acknowledgement**

### **College Algebra Dual Credit**

College Algebra taught by an instructor at San Jacinto College will earn high school credit and up to 3 college hours. The student must either pass the TSIA before beginning the class or meet the SAT or ACT exemption.

**Grade Placement: 11- 12** **up to 3 hrs./½ credit**

**Prerequisite: Algebra II**

**Highly recommended if attending a 4-year college/university**

**12 hours of Dual Credit with a 3.0 GPA will earn a Performance Acknowledgement**

### **Calculus Dual Credit**

College level Calculus taught by an instructor at San Jacinto College will earn high school credit and up to 6 college hours. The student must either pass the TSIA before beginning the class or meet the SAT or ACT exemption.

**Grade Placement: 12** **up to 6 hrs./1 credit**

**Prerequisite: Algebra II, Pre-Calculus**

**Highly recommended if attending a 4-year college/university**

**12 hours of Dual Credit with a 3.0 GPA will earn a Performance Acknowledgement**

## SCIENCE

### Maximum Grade Points earned for:

- Academic Courses – 4 points
- Advanced Courses – 5 points
- Core Dual Credit Courses – 5.75 points
- Advanced Placement Courses – 6 points
- ★ Locally designated Advanced Courses for weighted GPA

### Biology

Biology is a course that uses laboratory investigations, the scientific method and critical thinking skills to study a variety of topics that include structure and function of cells, genetics, nucleic acids, evolution, taxonomy, homeostasis and energy ecosystems and plants.

**Grade Placement: 9** **1 credit**

### Biology Advanced

Biology Advanced is a course that uses laboratory investigations, the scientific method and critical thinking skills to develop solutions to problems that cover topics such as cells, cell division and reproduction, photosynthesis, ecosystems, populations, nucleic acids, genetics, living systems, taxonomy, metabolism, evolution, biochemistry, homeostasis and cellular respiration. The course will prepare students for Biology AP.

**Grade Placement: 9** **1 credit**

### Biology AP

This course is designed to be the equivalent of a college introductory biology course. This course will help students develop a conceptual framework for modern biology and to gain an appreciation of science as a process. The general areas covered in this course are those recommended by the College Board. The topics to be studied include Evolution, Cellular Processes, Energy and Communication, Genetics, Information Transfer, Ecology, and Interactions. The course also includes an extensive laboratory program that will challenge students to develop a thorough understanding about new techniques and methodologies used in scientific research.

**Grade Placement: 11-12** **1 credit**

**Prerequisites: Biology or Biology Advanced and Chemistry or Chemistry Advanced.**

### Integrated Physics and Chemistry

This lab oriented course offers students an introduction to the basic concepts of physics and chemistry. In the first semester, students study motion and speed, forces, energy, work and machines, electricity, and waves. In the second semester, students study periodic table, classification of matter, chemical bonding, chemical and physical changes, solutions, and sources of energy. (Cannot count as a fourth year science in senior year).

**Grade Placement: 10** **1 credit**

### Chemistry

This is a lab and math oriented science course which covers such concepts as scientific measurement, atomic theory, classification of matter, chemical and physical changes, periodic table, chemical reactions, solutions, acids and bases, gas laws and nuclear chemistry.

**Grade Placement: 10-12** **1 credit**

**Prerequisite: One credit of high school Science and Algebra I**  
**Highly recommended if attending a 4 year college/university**

### **Chemistry Advanced**

This is a lab and math oriented science course which is designed to prepare students for AP Chemistry. The course emphasizes problem solving and the laboratory application of chemical concepts. The course covers such concepts as scientific measurement, atomic theory, classification of matter, chemical and physical changes, periodic table, chemical reactions, equilibrium, solutions, acids and bases, thermodynamics, gas laws and nuclear chemistry.

**Grade Placement: 10-12** **1 credit**

**Prerequisites: Biology and Algebra I**

**Highly recommended if attending a 4-year college/university**

### **Chemistry AP**

This course is designed to help students develop a thorough understanding of the fundamental concepts of chemistry. This course will help students with a college level foundation to support future advanced coursework in chemistry. Topics will include Atomic Structure, Intermolecular Forces and Bonding, Chemical Reactions, Kinetics, Thermodynamics, and Equilibrium. This course will challenge the students' ability to think analytically and will encourage students to express their ideas, orally and in writing, with clarity and logic. The students' understanding of chemistry will be enriched through a comprehensive laboratory program.

**Grade Placement: 11-12** **1 credit**

**Prerequisite: Chemistry or Advanced Chemistry and 80% or higher in Algebra I**

### **Physics**

This is a physical science course that investigates the relationship between matter and energy. The course focuses on the basic interactions that are involved in the transformation of energy from one form to another.

**Grade Placement: 11-12** **1 credit**

**Prerequisites: Algebra I and Geometry**

**Highly recommended if attending a 4-year college/university**

### **Physics I AP**

This course gives students a good understanding of the basic Newtonian mechanics, work, energy and power, mechanical waves and sound, and an introduction to electric circuits. The course focuses on preparing the students to be successful on the Physics I AP Exam.

**Grade Placement: 11-12** **1 credit**

**Prerequisites: Algebra I, Geometry and concurrent enrollment in Algebra II**

### **Physics II AP**

This course gives students the opportunity to explore topics such as fluid statics and dynamics; thermodynamics, PV diagrams and probability; electrostatics, electrical circuits with capacitors; magnetic fields, electromagnetism, physical and geometric optics; quantum, atomic and nuclear physics. The course focuses on preparing the students to be successful on the Physics II AP Exam.

**Grade Placement 11-12** **1 credit**

**Prerequisites: Physics I AP, Algebra II and concurrent enrollment in Pre-Calculus**

### **Anatomy and Physiology (ANATPHYS)**

In Anatomy and Physiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis. This course will count as a science credit.

**Grade Placement: 11-12** **1 credit**

**Prerequisite: Biology and a second science credit. Recommended prerequisite: a course from the Health Science Career Cluster.**

### **Astronomy**

In Astronomy, students conduct laboratory and field investigations, use scientific methods, and make informed decisions using critical thinking and scientific problem-solving. Students study the following topics: astronomy in civilization, patterns and objects in the sky, our place in space, the moon, reasons for the seasons, planets, the sun, stars, galaxies, cosmology, and space exploration. Students who successfully complete Astronomy will acquire knowledge within a conceptual framework, conduct observations of the sky, work collaboratively, and develop critical-thinking skills.

**Grade Placement: 11-12** **1 credit**

**Prerequisites: One credit of high school science**

### **Environmental Science AP**

This course is designed to acquaint students with the physical, ecological, social, and political principles of environmental science. The scientific method is used to analyze and understand the interrelationships between humans and the natural environment. The course shows how ecological realities and the material desires of humans often clash, leading to environmental degradation and pollution. The course covers the following topics: Earth's Systems, Human Population Dynamics, Natural Resources, Environmental Quality, Global Changes, and Environment and Society.

**Grade Placement: 10-12** **1 credit**

**Prerequisite: Biology, Chemistry, and Algebra I**

### **Environmental Systems**

This course focuses on the study of the interaction of organisms in the environment and on the interrelationships among resources and an environmental system. This course also includes a review of biological, chemical, and physical concepts as they apply to the environment.

**Grade Placement: 11-12** **1 credit**

**Prerequisite: One credit of high school Science and one credit of high school Physical Science**

### **Forensic Science (FORENSCI)**

Forensic Science is a course that introduces students to the application of science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, and cartridge cases. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science. This course satisfies a high school science graduation requirement.

**Grade Placement: 11-12** **1 credit**

**Prerequisites: Biology and Chemistry**

### **Medical Microbiology**

Students in Medical Microbiology explore the microbial world, studying topics such as pathogenic and

non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases. This course will count as a fourth year Science credit.

**Grade Placement: 11-12**

**1 credit**

**Prerequisites: Biology and Chemistry. Recommended prerequisite: A course from the Health Science Career Cluster**

## SOCIAL STUDIES

**Maximum Grade Points earned for:**

- **Academic Courses** – 4 points
- **Advanced Courses** – 5 points
- **Core Dual Credit Courses** – 5.75 points
- **Advanced Placement Courses** – 6 points
- ★ **Locally designated Advanced Courses for weighted GPA**

### **World History**

This course focuses on world events from the time of prehistoric people through the modern world. Causes and effects of events in the world's history will be covered with emphasis on analysis and interpretational skills.

**Grade Placement: 9**

**1 credit**

### **World Geography**

This course is designed to help you better understand our constantly changing and complex world through the study of geography. Students will study geography from the physical, political and cultural perspective through the five basic themes of location, place, human-environment interaction, movement and region.

**Grade Placement: 9-12**

**1 credit**

### **World History AP**

In AP World History: Modern, students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.

**Grade Placement: 10**

**1 credit**

### **Human Geography AP**

This course is designed to introduce the systematic study of patterns and processes that have shaped human understanding, use and alteration of the Earth's surface. Students will learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. Students will also learn about the methods and tools geographers use in research and applications. This course is taught at a college-level since there is an AP test developed by College Board



at the end of the year that will provide students the opportunity to earn college credit with a passing score.

**Grade Placement: 9** **1 credit**

**Prerequisite: None-Advanced level reading comprehension and critical writing will be necessary to be successful in this course**

### **United States History**

In this course emphasis will be placed on the United States' development following the Civil War. There will be a focus on domestic problems and accomplishments, as well as on the importance of the U.S. involvement in world affairs.

**Grade Placement: 11** **1 credit**

### **United States History AP**

Following the College Board curriculum for United States history, US History-AP concentrates on providing students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in United States history. The content of this course emphasizes a survey of US history from exploration through the present while incorporating the cultural diversities and the roles of minorities. Analytical and research skills will also be used to study primary sources and scholarly works in an effort to discover the overall movement and fabric of United States history and prepare students to take the Advanced Placement United States history test.

**Grade Placement: 11** **1 credit**

### **United States History Dual Credit**

In this college freshman U.S. History class taught by an instructor at San Jacinto College, a student can earn up to six-semester hours college credit while concurrently earning high school credit. The student must either pass the TSIA before beginning the class or meet the SAT or ACT exemption.

**Grade Placement: 11** **up to 6 hrs. /1 credit**

"If a student fails United States History Dual Credit but passes the US History STAAR EOC Test; the student cannot be awarded credit for the course. The student must retake the United States History Dual Credit Course or the high school United States History Course to be awarded credit."

### **United States Government**

Opportunities will be provided to analyze the United States government, its functions at all levels of operations, and to assist the students in understanding the rights and responsibilities of citizenship. Students utilize a variety of sources including graphs, charts, illustrations, case studies and current events.

**Grade Placement: 10** **½ credit**

### **United States Government Dual Credit**

A college freshman government class taught by an instructor from San Jacinto College. A student can earn up to six semester college credit hours while concurrently earning high school credit. The student must either pass the TSIA before beginning the class or meet the SAT or ACT exemption. This is a full year college course so ½ local credit will be awarded for the second semester of the high school component.

**Grade Placement: 10-12** **up to 6 hrs. /½ credit**

### **United States Government and Politics AP**

The objectives of this course are to study the political system of the United States first and foremost. The instructor will integrate new approaches and materials to expand the traditional subjects of American politics. This course requires careful and rigorous study and application of analytic thinking and critical reasoning skills.

**Grade Placement: 12** **½ credit**

**Economics-Economics with Emphasis on the Free Enterprise System and Its Benefits**

This course is a study of economics with particular emphasis on the United States free enterprise system, its benefits and unique characteristics.

**Grade Placement: 10** **½ credit**

**Personal Financial Literacy and Economics**

This course emphasizes 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.

**Grade Placement: 10** **½ credit**

**Macro Economics Dual Credit**

College level Macroeconomics taught by an instructor at San Jacinto College will earn up to 3 college hours and high school credit. The student must either pass the TSIA before beginning the class or meet the SAT or ACT exemption.

**Grade Placement: 10-12** **up to 3 hrs. /½ credit**

**Micro Economics Dual Credit**

College level Microeconomics taught by an instructor at San Jacinto College will earn up to 3 college hours and high school credit. The student must either pass the TSIA before beginning the class or meet the SAT or ACT exemption.

**Grade Placement: 10-12** **up to 3 hrs. /½ credit**

**UT OnRamps Introduction to Economics**

The UT OnRamps Introduction to Economics Course is a Dual Enrollment Course taken in conjunction with the University of Texas Austin alongside a certified high school teacher. Students are eligible to receive 3 college credit hours in addition to the required high school 1/2 credit for Economics. The course introduces the principles, models and conditions that influence our economy and explores how consumers, businesses and governments make and evaluate economic decisions. In addition to studying core concepts like scarcity, opportunity costs, supply and demand, market structures, competition and behavioral economics, students also learn about economics in business, entrepreneurship and their own personal lives.

**Grade Placement: 12** **up to 3 hrs./½ Credit**

**Economics AP Macroeconomics**

The AP course in Macroeconomics is designed to give a thorough understanding of the principles of economics that apply to an economic system as a whole. This course places particular emphasis on the study of national income and price determination, and develops familiarity with economic performance measures, economic growth, and international economics. This course prepares students for the College Board's Advanced Placement Exam.

**Grade Placement: 12** **½ credit**

## Social Studies Elective Courses

### Psychology

Students will focus on elements of individual psychology as well as personality theories and disorders, normal and abnormal behavior, learning, emotions and motivation, and human growth and development.

**Grade Placement: 10-12** **½ credit**

### Psychology Dual Credit

College level Psychology taught by an instructor at San Jacinto College will earn up to 3 college hours and high school credit. The student must either pass the TSIA before beginning the class or meet the SAT or ACT exemption.

**Grade Placement: 10-12** **up to 3 hrs./½ credit**

### Personal Financial Literacy

Personal Financial Literacy will develop citizens who have the knowledge and skills to make sound, informed financial decisions that will allow them to lead financially secure lifestyles and understand personal financial responsibility. Students will apply critical-thinking and problem-solving skills to analyze decisions involving earning and spending, saving and investing, credit and borrowing, insuring and protecting, and college and post-secondary education and training.

**Grade Placement: 9-12** **½ credit**

### Sociology

This course focuses upon the interaction between and among groups, as well as on human behavior in the United States and in selected cultures throughout the world.

**Grade Placement: 10-12** **½ credit**

### Special Topics in Social Studies/Psychology AP

Students will be exposed to the necessary tools and knowledge to understand psychology as a science that includes the techniques used and psychological perspectives employed in psychological research. Students will learn about the mind-body connection, including the sensory processes and human development. Students will also explore thought processes to see how it is related to learning, memory, cognition, and intelligence. Students will analyze and evaluate theories of personality, motivation, and emotion in the development of self. The course is a yearlong and there is no prerequisite to enroll. Students will take the Special Topics Advanced course in the fall followed by Psychology AP in the spring semester.

**Grade Placement: 10 – 12** **1 credit**

### Special Topics in Social Studies-African American History

This course is designed to present and allow students to investigate the history and culture of Americans of African descent throughout the American story. This course will focus on the struggle and achievements of African Americans from the beginnings in ancient Africa through the transatlantic slave trade, Early America, Civil War, emancipation Reconstruction, the Civil Rights era and continued through Modern America. This course will highlight the role of individuals and individual achievements as well as cultural contributions throughout the history of the United States.

**Grade Placement: 11-12** **½ credit**

**Prerequisite: Student should have completed the required Social Studies courses of World History (or Geography), Economics, Government and U.S. History**

**Special Topics in Social Studies: Latin-American History**

This course is designed to present and allow students to investigate the history and culture of Latin-American and Americans of Latin descent throughout the American story. This course will focus on the Latino experience from Pre-Columbian era through modern America. Individuals as well as the various Latino communities will be studied throughout the history of the United States. Cuban, Puerto Rican, Chicano/Mexican and Central and Southern American cultural groups will all be studied in this course.

**Grade Placement: 11-12** **½ credit**

**Prerequisite: Student should have completed the required Social Studies courses of World History (or Geography), Economics, Government and U.S. History**

**Special Topics in Social Studies-History of Sports in America**

This course is designed to present and allow students to the historical development of sports in the United States and its impact. The course provides the opportunity to examine how sports influenced politics, the economy, societal change, gender equality, and nationalism. This course will focus on U.S. History through the evolution of a variety of sports starting at the beginning and developing into the major leagues. Sports eras of 1860 to 1940, 1940 to 1980, and 1980 to present will be studied. Students will learn about sports heroes, the movement of teams, the impact of the media, and the role of the U.S. in the Olympics. Connections will be drawn between the sports event and major historical events in the U.S.

**Grade Placement: 11-12** **½ credit**

**Prerequisite: Student should have completed the required Social Studies courses of World History (or Geography), Economics, Government and U.S. History**

**Special Topics in Social Studies-Women in American History**

This course is designed to allow students to investigate the history of women in the United States as leaders, reformers, and innovators throughout the American story. This course will focus on the experience of women in the United States and the impact various individuals had on the history of the United States and beyond the borders of the United States. This course will highlight the role of individual women, their achievements, as well as contributions to the United States. Students will have the opportunity to use the skills of a social scientist to analyze the role of women throughout the various eras of United States History and research and analyze individual women in and outside the United States. Students will use critical thinking skills to research, organize, analyze data, and communicate the findings using written, oral, and visual formats.

**Grade Placement: 11-12** **½ credit**

**Prerequisite: Student should have completed the required Social Studies courses of World History (or Geography), Economics, Government and U.S. History**

**Special Topics in Social Studies: The Bible and Its Influence (Old Testament)**

This course is designed for students who wish to explore and learn about the Hebrew Scriptures (Old Testament) their impact on modern society. The curriculum focuses on the knowledge of biblical content, characters, poetry, and narratives that lead to understanding of contemporary society and culture. The students will become familiar with the contents of the history of the literary style and structure and the influence of the Hebrew Scriptures on law, history, government, literature, art, music, customs, morals, values, and culture. This course will require in depth reading, research, analysis with reflective writing and problem solving. A research project will be required. This course will follow all federal and state guidelines in maintaining religious neutrality and accommodating the diverse religious

views, traditions, and perspectives of students. This course will not endorse, favor, promote, or disfavor any particular religion or nonreligious faith or religious perspective.

**Grade Placement: 11-12**

**½ credit**

**Special Topics in Social Studies: The Bible and Its Influence (New Testament)**

This course is designed for students who wish to explore and learn about the New Testament of the Bible and the impact on modern society. The curriculum focuses on the knowledge of biblical content, characters, poetry, and narratives that lead to understanding of contemporary society and culture. The students will become familiar with the contents of the history of the literary style and structure and the influence of the Hebrew Scriptures and New Testament on law, history, government, literature, art, music, customs, morals, values, and culture. This course will require in depth reading, research, analysis with reflective writing and problem solving. A research project will be required. This course will follow all federal and state guidelines in maintaining religious neutrality and accommodating the diverse religious views, traditions, and perspectives of students. This course will not endorse, favor, promote, or disfavor any particular religion or nonreligious faith or religious perspective.

**Grade Placement: 11-12**

**½ credit**

**Special Topics in Social Studies- U.S. History through Film**

This course examines American history, culture and society through film. The primary "text" for this course will be American films that examine an aspect or era of American history. Students critically analyze how American cultural and social conflicts are portrayed and worked out in popular films. By watching, discussing, and writing about these films, students examine how motion pictures create a window into American history, society, and identity. Students will learn how to read American films as cultural texts that help us better understand our history and culture.

**Grade Placement: 11-12**

**½ credit**

**Prerequisite: Student should have completed the required Social Studies courses of World History (or Geography), Economics, Government and U.S. History.**

**Special Topics in Social Studies- American Military History**

This course examines American Military History by delving into American Military efforts throughout history, including: the American Revolution, the War of 1812, the Mexican-American War, the Civil War, the Spanish- American War, World War I, World War II, the Cold War, Vietnam and Modern American Wars. In each of these wars, students will examine the issues and events, political objectives, military objectives and strategies, political considerations, military technology and techniques, military conduct and the state of peace. Students will be required to complete a research-based project as part of the course.

**Grade Placement: 11-12**

**½ credit**

**Prerequisite: Student should have completed the required Social Studies courses of World History (or Geography), Economics, Government and U.S. History.**

## PHYSICAL EDUCATION

**Maximum Grade Points earned for:**

- **Academic Courses** – 4 points
- **Advanced Courses** – 5 points
- **Core Dual Credit Courses** – 5.75 points
- **Advanced Placement Courses** – 6 points
- ★ **Locally designated Advanced Courses for weighted GPA**

**P.E. classes are open to all students.**

## Skill-Based Lifetime Activities

This class emphasizes doing activities that include basic sport skills, basic sport knowledge, and health and fitness principles. Students will participate in at least one lifelong activity.

**Grade Placement: 9-10** **1 credit**

## Lifetime Fitness and Wellness Pursuits

This class emphasizes doing activities that will impact daily performance, physical activity, and health throughout the lifespan.

**Grade Placement: 9-10** **1 credit**

**For students who participate in Athletics:**

### Interscholastic Competitive Team Sports (University Interscholastic League (U.I.L.))

In these courses students may develop individual and team skills that are fundamental to success in their chosen sport. Competition and additional practice times are required outside of school time. Athletes are required to have an athletic physical prior to participation in any sport. Academic subjects are stressed and all participants must be eligible under TEA and UIL rules. Interscholastic sports class requirements exceed those of general physical education.

**Grade Placement: 9-12** **1 credit**

### Prerequisite: Meet Specific Requirements

**Advanced Weighted GPA: Minimum 2 years in any athletic course**

**Physical Education credit may be earned through participation in any of the following activities:**

- ROTC
- Drill Team
- Marching Band
- Marching Band
- Cheerleading

HEALTH EDUCATION	
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93	93.1
94	94.1
95	95.1
96	96.1
97	97.1
98	98.1
99	99.1
100	100.1

## Health I

This course, a study of physical, mental, and emotional functions of the body, emphasizes teenage decisions concerning the use of tobacco, alcohol, and drugs. It also includes credits on fitness, safety, nutrition, sexuality education, and first aid.

**Grade Placement: 9-10** **½ Elective Credit**



## **Health II**

This course, a study of physical, mental, and emotional functions of the body, emphasizes teenage decisions concerning the use of tobacco, alcohol, and drugs. It also includes credits on fitness, safety, nutrition, sexuality education, and first aid.

**Grade Placement: 10-12**

**½ Elective Credit**

**Prerequisite: Health Education**

## **LANGUAGES OTHER THAN ENGLISH**

**Maximum Grade Points earned for:**

- **Academic Courses** – 4 points
- **Advanced Courses** – 5 points
- **Core Dual Credit Courses** – 5.75 points
- **Advanced Placement Courses** – 6 points
- ★ **Locally designated Advanced Courses for weighted GPA**

## **French I**

This course emphasizes the practical mastery of those skills necessary for understanding, speaking, reading and writing French; develop direct communication in the language through oral/aural techniques and materials, and uses varied activities and materials to create an awareness of French culture.

**Grade Placement: 9-12**

**1 credit**

## **French II**

This course continues to develop the student's ability to understand, speak, read, and write French with emphasis on vocabulary enrichment and continued activities to increase interest in and appreciation for French culture and heritage.

**Grade Placement: 9-12**

**1 credit**

**Prerequisite: French I**

## **French III★**

This course exceeds the traditional French by including an in-depth study of the language, French history, geography and culture by placing even more stress on oral proficiency.

**Grade Placement: 11-12**

**1 credit**

**Prerequisite: French II**

**Highly recommended if attending a 4-year college/university**

## **Spanish I**

This introductory course enables the student to learn Spanish pronunciation, to acquire a vocabulary sufficient for simple conversations, to practice basic structure patterns, and to become aware of Spanish culture.

**Grade Placement: 8 – 12**

**1 credit**

## **Spanish for Native Speakers II**

Intended for those students who already speak and understand Spanish. Course is taught entirely in Spanish. Emphasis is placed on reading and writing.

**Grade Placement: 8 - 12**

**1 credit**

**Prerequisite:** Pass exam to enter course with 75% mastery.

### **Spanish II**

This course continues emphasis in oral comprehension, improvement of reading skills, identification of basic grammar patterns in written/spoken materials, and an examination of culture.

**Grade Placement:** 9 - 12

**1 credit**

**Prerequisite:** Spanish I

### **Spanish III Advanced**

This course exceeds the traditional survey course in Spanish by including a more in-depth study of the language, Spanish/Mexican/Latin American history, geography, culture, and literature and by placing more stress on oral proficiency.

**Grade Placement:** 9-12

**1 credit**

**Prerequisite:** Spanish II

**Highly recommended if attending a 4-year college/university**

### **Spanish IV AP**

This course covers the equivalent of a third year college course in advanced Spanish writing and composition. It encompasses aural/oral skills, reading comprehension, grammar, and composition. It is the prep course for the College Board AP Spanish Language exam given each May.

**Grade Placement:** 11-12

**1 credit**

**Prerequisites:** Spanish III and specific requirements.

**Highly recommended if attending a 4-year college/university**

### **Spanish V AP - Literature**

Spanish literature is read and analyzed orally and in writing, leading to third year Spanish college proficiency in composition, conversation, and grammar. This course is to prep course for the College Board AP exam in Spanish Literature given each May.

**Grade Placement:** 12

**1 credit**

**Prerequisites:** Spanish IV AP and specific requirements.

**Highly recommended if attending a 4-year college/university**

## **SPEECH**

**Maximum Grade Points earned for:**

- Academic Courses – 4 points
- Advanced Courses – 5 points
- Core Dual Credit Courses – 5.75 points
- Advanced Placement Courses – 6 points
- ★ Locally designated Advanced Courses for weighted GPA

### **Communications Applications**

This course is **required** for graduation credit and will provide students the opportunity to identify, analyze, develop, and evaluate communication skills needed for professional and social success in interpersonal situations, group interactions, and personal and professional presentations.

**Grade Placement:** 9 – 12

**½ credit**

**Required**

**Debate I****Debate II****Debate III★****Debate IV★**

These courses are advanced for debate competition. The class emphasizes both policy and Lincoln-Douglas value debate. The student's goals are to develop and enhance research in public speaking, logic, note taking, and vast variety of special rhetorical skills.

**Grade Placement: 9 – 12****1 – 3 Elective Credits****Prerequisites: Public Speaking I-II and specific requirements****Public Speaking I****Public Speaking II**

This course is designed to follow Communications Applications. The study of public speaking allows the student to plan, research, organize, and present speeches based on classical, traditional, and modern techniques.

**Grade Placement: 11-12****½ - 2 Elective Credits**

## FINE ARTS

**Maximum Grade Points earned for:**

- Academic Courses – 4 points
- Advanced Courses – 5 points
- Core Dual Credit Courses – 5.75 points
- Advanced Placement Courses – 6 points
- ★ Locally designated Advanced Courses for weighted GPA

**Applied Music I****Applied Music II**

Student will be able to study the instrument or voice in a one-to-one student/teacher relationship. Prior approval is required.

**Grade Placement: 11-12****1 - 2 credits****Art I – Ceramics****Art II – Ceramics****Art III – Ceramics****Art IV - Ceramics**

This course focuses on the design and development of original art works in ceramics.

**Grade Placement: 9-12****1 credit****Art I**

A prerequisite for all other art courses, Art I offer experiences in various art processes, structures, theories, and historical developments. Activities include drawing, painting, printmaking, sculpture, mixed media, design and cultural arts.

**Grade Placement: 9-12****1 credit**

### **Art I Advanced**

### **Art II Advanced**

This course is offered for the highly motivated art student as preparation for Advance Placement Drawing, 2-D Design and 3-D Design courses. Students wishing to apply for this course must submit artwork as well as a recommendation from an art teacher. Upon successful completion of this course, a student can advance to AP Drawing, AP 2-D Design or AP 3-D Design.

**Grade Placement: 9 – 10**

**1 credit**

**Prerequisite: Meet Specific Requirements.**

### **Art II - Drawing**

This second year of art takes a more analytical approach and goes in-depth into the various art processes, structures, and theories. Activities center on drawing, painting, printmaking, sculpture, mixed media, and cultural arts.

**Grade Placement: 10-12**

**1 credit**

**Prerequisite: Art I**

### **Art III - Drawing★**

Advanced art provides an in-depth study of the schools and styles of painting and art processes in drawing, printmaking, painting, mixed media, design, sculpture, and cultural arts. Creative activities offer problem-solving techniques which will lead the students to develop their unique styles. In each of the areas students will explore different media, integrating all of the learned processes and techniques.

**Grade Placement: 11-12**

**1 credit**

**Prerequisites: Successful completion of Art I and Art II - Drawing.**

### **Art IV - Drawing★**

Experiences provide opportunities for the student to explore and develop an individual style in the art processes, developing technical skills in the use of tools and materials, and developing critical evaluation of the student's own growth and development. The students select an area to explore in great detail, evaluation artists' concepts and styles. In the process, the students develop their own styles, which reflect their awareness of themselves and their place in the environment.

**Grade Placement: 12**

**½ - 1 credit**

**Prerequisites: Art I, II - Drawing, III - Drawing, and specific requirements.**

### **Art III-IV AP Two Dimensional Design Portfolio**

This course provides the serious student of art with opportunity to produce art **with a concentration on two dimensional design** that reflects knowledge of the elements and the principles of art and their application. Students in the AP course will reflect three major concerns that are constants in the teaching of art: (1) a sense of quality in the student's work; (2) the student's concentration on a particular visual interest or problem; and (3) the student's need to **expand** breadth of experience in the formal, technical, and expressive means of the artist.

**Grade Placement: 10- 12**

**1 credit**

**Prerequisite: Successful completion of Art, Art II Advanced.**

### **Art III-IV AP Drawing Portfolio**

This course provides the serious student of art with opportunity to produce art **with a concentration on drawing** that reflects knowledge of the elements and the principles of art and their application. Students in the AP course will reflect three major concerns that are constants in the teaching of art: (1) a sense of quality in the student's work; (2) the student's concentration on a particular visual interest or problem; and (3) the student's need to **expand** breadth of experience in the formal, technical, and expressive means of the artist.

**Grade Placement: 10-12**

**1 credit**

**Prerequisite: Successful completion of Art, Art II Advanced, Art AP Two Dimensional Design Portfolio.**

**Art III-IV AP Three Dimensional Portfolio**

This course provides the serious student of art with the opportunity to produce art **with a concentration on three dimensional design** that reflects knowledge of the elements and the principles of art and their application. Students in the AP course will reflect three major concerns that are constants in the teaching of art: (1) a sense of quality in the student's work (2) the student's concentration on a particular visual interest or problem; and (3) the student's need to expand the breadth of experience in the formal, technical, and expressive means of the artist.

**Grade Placement: 10-12**

**1 credit**

**Prerequisite: Successful completion of Art, Art II Pre AP, Art AP Two Dimensional Design Portfolio, and Art AP Drawing Portfolio.**

**Art History Dual Credit**

This course is a one-year study of architecture, sculpture, painting, and other art forms with historical and cultural contexts. This course will be taught by a college instructor at San Jacinto College that will earn high school credit and college hours.

**Grade Placement: 11-12**

**1 credit**

**Prerequisite: Meet Specific Requirements.**

**AP History of Art**

This course is a one year study of architecture, sculpture, painting, and other art forms within historical and cultural contexts. History of Art will be taught at the college level using college-level materials. Slides, hands on activities- read, write, hands on, art.

**Grade Placement: 10-12**

**1 credit**

**Prerequisite: Meet Specific Requirements.**

**Band I**

**Band II**

**Band III★**

**Band IV★**

These courses consist of marching, concert playing, sight reading, small ensemble playing and individual instrumental technique. Public performance is an integral part of the band experience. Students in grades nine through twelve will comprise various classes according to achievement levels monitored by periodic auditions. The names of these classes differ with the high school in which they are organized. These groups participate in the TMEA audition process and UIL competition. Two fall semesters of successfully completed marching band will fulfill the P.E. requirement.

**Grade Placement: 9-12**

**1 - 4 credits**

**Prerequisite: Successful completion of eighth grade band. Audition is required.**

**Instrumental Ensemble I**

**Instrumental Ensemble II**

**Instrumental Ensemble III★**

**Instrumental Ensemble IV★**

These courses are required for members of the band Philharmonic, Symphonic and Wind Ensemble bands.

**Grade Placement: 9-12**

**1 - 4 credits**

**Prerequisite: Audition**

**Choir I****Choir II****Choir III★****Choir IV★**

These choir classes emphasize choral singing, music theory, listening, and performance. 9<sup>th</sup> – 12<sup>th</sup> grade students will comprise various classes according to achievement levels checked by audition. The names of these groups differ with the high schools in which they are organized. Public performance is an integral part of the Choral experience. These groups participate in UIL competition and TMEA audition process.

**Grade Placement: 9-12****1 - 4 credits****Prerequisite: Meet Specific Requirements****Vocal Ensemble I****Vocal Ensemble II****Vocal Ensemble III★****Vocal Ensemble IV★**

These choir classes emphasize performance in light rock, pop, swing, and jazz music with movement, staging and dance choreography. Solo singing is required Director approval through an audition is necessary.

**Grade Placement: 9-12****1 - 4 credits****Color Guard I****Color Guard II****Color Guard III★****Color Guard IV★**

Membership is determined by audition during the sixth six weeks grade reporting period. Two fall semesters of successfully completed marching band will fulfill the P.E. requirement. This class receives Dance credit for Fine Arts graduation and elective requirement. Activities include preparations and rehearsals for marching band performances, individual performances, festivals, school activities and Winter Guard competitions. Participation fee is assessed at the beginning of each semester.

**Grade Placement: 9-12****1 - 4 credits****Dance I****Dance II****Dance III★****Dance IV★**

In Dance students study four basic strands perception, creative expression/performance, historical and cultural heritage, and critical evaluation – that provide broad, unifying structures for organizing the knowledge and skills students are expected to acquire. Dance students develop perceptual thinking and moving abilities in daily life that promote understanding of themselves and others and allow them to interact effectively in the community. By mastering movement principles and skills, students develop self-discipline, and health bodies that move expressively, efficiently, and safely through space and time with controlled energy.

**Grade Placement: 9 –12****½ - 4 credits****Prerequisite: Successful completion of Dance I, or II, or III**

**Dance Team I****Dance Team II****Dance Team III★****Dance Team IV★**

The dance team is a performing group for various activities, which include: athletic and community events, fall and spring shows, and solo, ensemble, and team competition. Membership is determined by an audition process. Two fall semesters of successfully completed Dance Team will fulfill the P.E. requirement.

**Grade Placement: 9-12****½ - 4 credits****Dance Production Level I**

This course provides the opportunity for developing knowledge of stage production. The students participate in research and design for fall/spring dance concerts. The students work on technical crews for staging, lighting, and other technical areas. Teacher approval required.

**Grade Placement: 10-12****½ - 3 credits****Prerequisite: Successful completion of Level I Dance/The Crew****Music Theory Advanced**

This course is designed for the advanced music student interested in a deeper study of musical style, sight singing, ear training, and music history.

**Grade Placement: 11-12****1 credit****Prerequisite: Meet Specific Requirements****Music Theory AP**

This course is an extension of Advanced Music Theory preparing for college level freshman theory. This course will culminate with the Music Theory Advanced Placement Test.

**Grade Placement: 12****1 credit****Prerequisite: Meet Specific Requirements****Technical Theater I****Technical Theater II****Technical Theater III★****Technical Theater IV★**

This course is designed for those students that are interested in continuing their study of theater from a technical aspect. The course will cover technical drawing of sets in scale, costume design and construction, alterations of costumes, make-up design and application, model building, script analysis, lighting design, fixtures and other technical aspects of theater.

**Grade Placement: 10-12****1 credit****Prerequisite Theater Arts I****Theatre Arts I****Theatre Arts II****Theatre Arts III★****Theatre Arts IV★**

These courses combines a study of theater history with the theory and exercise in body control, voice, pantomime, interpretation, characterization, and stage action with analysis and study of specific roles, principles of group movement and varied projects in action and group rehearsal. They also provide opportunities to develop knowledge of basic stage craft.

**Grade Placement: 9-12****1 - 4 credits**



**Theatre Production I****Theatre Production II****Theatre Production III★****Theatre Production IV★**

These courses provide the opportunity for developing knowledge and skills of stage craft. The student participation research and design and work on technical crews for staging, lighting and other technical areas.

**Grade Placement: 9-12**

**1 - 4 credits**

**Prerequisite: Meet Specific Requirements**

**Floral Design**

To be prepared for careers in floral design, students need to attain academic skills and knowledge as well as technical knowledge and skills related to horticultural systems and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings. This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. This course will satisfy the Fine Arts requirement for graduation.

**Grade Placement: 9-12**

**1 credit**

## **ELECTIVES**

**Maximum Grade Points earned for:**

- **Academic Courses** – 4 points
- **Advanced Courses** – 5 points
- **Core Dual Credit Courses** – 5.75 points
- **Advanced Placement Courses** – 6 points
- ★ **Locally designated Advanced Courses for weighted GPA**

The Army JROTC Program consists of four (4) Leader Education Training (LET) levels. Our mission is to "motivate young people to be better citizens." We are not organized for the purpose of recruiting for the Armed Services, but will assist if that is the goal after high school. Students that take JROTC will be issued a dress uniform that must be worn on the specified Uniform Inspection Day! The weekly uniform wearing is considered a MAJOR GRADE!!!!

**ROTC (LET 1)**

First year cadets learn the Army JROTC training module and are introduced how to appropriately wear their uniform. They are introduced to Drill and Ceremony where they learn to react to basic commands of static and marching techniques. Cadets will learn the rank structure of JROTC as well as the US Army. LET 1 cadets are introduced and participate in Service Learning projects providing service to the community and school while learning the basics of Team Building. Cadets also learn US Army customs and courtesies and proper etiquette of the US Flag.

**ROTC (LET 2)**

Cadets learn application of leadership principles emphasizing hands on responsibility and accountability for other cadets. LET 2 cadets learn first aid techniques along with lessons on substance use and abuse

with positive decision making choices. LET 2 cadets will master squad level Drill and Ceremony building to platoon level marching. Primary lessons taught enforce the significance of the US Constitution and Amendments as it applies to the judicial system. Activities will revolve around Team Building.

**Prerequisite: One Semester LET 1**

### **ROTC (LET 3)**

Learn the primary roles of the cadet Battalion Staff and Command positions. LET 3 cadets will master platoon and company level drill and ceremony, and assist during Uniform Inspections. LET 3 lessons include diversity and conflict management of their assigned cadets as well as learning to effectively plan and manage Service Learning projects. Cadets will learn individual and team presentation/briefing skills. LET 3 Cadets will serve as Team Leaders for Team Building activities and primary trainers for drill and ceremony events.

**Prerequisite: Two semesters LET 2**

### **ROTC (LET 4)**

Learn to lead and serve as the Cadet Battalion Command and Staff. LET 4s teach and train LET1/2/3s throughout the year. LET 4 cadets will manage and plan Service Learning Projects. LET 4 lessons will involve Career Exploration Strategies and Planning with an emphasis on creating a functional Resume to assist in the College and Career application process. Lessons taught revolve around Military and Civilian Career Planning with detailed study of US Army chain of command and organizational structure. Lessons taught will allow the Cadet to compare and contrast military occupations as they relate to civilian job market.

**Prerequisite: Two semesters LET 3**

### **Path to College and Career I**

### **Path to College and Career II**

### **Path to College and Career III★**

### **Path to College and Career IV★**

Path to College and Careers is an elective course that prepares students for entrance into a four-year university. This course emphasizes analytical writing, preparation for college entrance and placement exams, study skills, test taking skills, note-taking, and research skills.

**Grade Placement: 9-12**

**½ Elective Credit**

### **Peer Assistance and Leadership (PALS) I**

### **Peer Assistance and Leadership (PALS) II**

The PALS course is a peer helping program in which selected students are trained to work as peer facilitators with other students on campus. The course is intended to provide a field experience for students who are potentially interested in careers in education and/or related helping professions. Participants will be trained in a variety of helping skills that enable them to assist other students in having a more positive and productive school experience. Positive peer influence will be utilized as a central strategy for addressing such issues as at-risk youth, dropout prevention, substance abuse prevention, teen pregnancy, suicide, absenteeism, low achievement, behavior problems, students with special needs, and other areas of concern.

**Grade Placement: 11-12**

**½ - 1 credit**

**Prerequisite: Meet Specific Requirements**

## **CAREER AND TECHNICAL EDUCATION (CTE) DUAL CREDIT COURSES**

If you are interested in CTE Dual Credit with San Jacinto College, please contact your campus CTE Counselor.

## **CAREER AND TECHNICAL EDUCATION COURSES (CTE)**

Maximum Grade Points earned for:

- Academic Courses – 4 points
- Advanced Courses – 5 points
- Core Dual Credit Courses – 5.75 points
- Advanced Placement Courses – 6 points
- \* Locally designated Advanced Courses for weighted GPA

### **Career Preparation I (CAREERP1)**

### **Career Preparation II (CAREERP2) \***

**(Limited seating available)**

This work-based instructional arrangement develops essential knowledge and skills through classroom instruction and on-the-job training in an approved career and technical training area. Students will receive general lifelong learning skills, employability skills, leadership, management skills, free enterprise system, work ethics safety, mathematics, financial transactions, and communications as a group; however, each student will have an individual training plan that will address their job specific knowledge and skills. The training sponsor will assist the teacher in providing the necessary knowledge and skills for the student's specific work-based training. Students will be given specific occupational training assignments in the classroom. Students must obtain and keep paid employment throughout the year to receive credit.

**Grade Placement: 11-12**

**2 credit**

**Prerequisite: Student must be 16 years of age with valid work documentation and have personal transportation. Student must have successfully completed Career Preparation I in order to enroll in Career Preparation II.**

# Agriculture, Food, and Natural Resources Cluster

## Business and Industry Endorsement

### **Principles of Agriculture, Food and Natural Resources (PRINAFNR)**

To be prepared for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, detail, practices, and expectations. To prepare for success, students need to have opportunities to learn, reinforce experience, apply, and transfer their knowledge and skills in a variety of settings. Students have the opportunity to earn Texas Beef Quality Assurance Certification.

**Grade Placement: 9-12**

**1 credit**

### **Livestock Production (LIVEPROD)**

#### **Advanced CTE Course**

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

**Grade Placement: 10-12**

**1 credit**

### **Small Animal Management (SMANIMGT)**

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

**Grade Placement: 10-12**

**½ credit**

### **Equine Science (EQUINSCI)**

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

**Grade Placement: 10-12**

**½ credit**

### **Advanced Animal Science (ADVANSKI)**

#### **Advanced CTE Course**

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. This course satisfies a high school science graduation requirement.

**Grade Placement: 11-12**

**1 credit**

**Prerequisite: Biology and Chemistry or Integrated Physics and Chemistry (IPC); Algebra I and Geometry; and either Small Animal Management, Equine Science, or Livestock Production.**

### **Veterinary Medical Applications (VETMEDAP)\***

### **Veterinary Medical Applications and Lab (VETMEDLAB)\***

#### **Advanced CTE Course**

Veterinary Medical Applications covers topics relating to veterinary practices, including practices for large and small animal species. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings.

**Grade Placement: 11-12**

**1 or 2 credits**

**Prerequisite: Equine Science, Small Animal Management, or Livestock Production.**

### **Wildlife, Fisheries and Ecology Management (WFECGT)\***

Wildlife, Fisheries, and Ecology Management examines the management of game and non-game wildlife species, fish, and aqua crops and their ecological needs as related to current agricultural practices. To prepare for careers in natural resource systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. Students have the opportunity to earn Texas Hunter Certification and Texas Boater Certification.

**Grade Placement: 10-12**

**1 credit**

### **Floral Design (FLORAL)**

#### **Advanced CTE Course**

To be prepared for careers in floral design, students need to attain academic skills and knowledge as well as technical knowledge and skills related to horticultural systems and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings. This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. This course will satisfy the Fine Arts requirement for graduation.

**Grade Placement: 10-12**

**1 credit**

### **Advanced Floral Design (ADVFLDES)**

#### **(Limited Seating Available)**

In this course, students build on the knowledge from the Floral Design course and are introduced to more advanced floral design concepts, with an emphasis on specialty designs and specific occasion planning. This course focuses on building skills in advanced 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. Through

the analysis and evaluation of various occasion and event types, students explore the design needs and expectations of clients and propose and evaluate appropriate creations. From conception to evaluation, students are challenged to create and design appropriate specialty floral designs that meet the needs of the client. Furthermore, an emphasis on budgetary adherence and entrepreneurship equips students with many of the necessary skills needed for success in floral enterprises.

**Grade Placement: 11-12** 1 credit

**Prerequisite: Floral Design**

**Practicum in Agriculture, Food and Natural Resources★**

**Advanced CTE Course (Limited seating available)**

The practicum is designed to enhance student's practical application of knowledge and skills learned in **Agriculture, Food, and Natural Resources cluster**. Gives the student the opportunity to develop advanced skills and ability to demonstrate the techniques related to **Agriculture, Food, and Natural Resources cluster**.

**Grade Placement: 11-12** 2 credit

## ARCHITECTURE AND CONSTRUCTION CLUSTER

### Business and Industry Endorsement

**Principles of Architecture (PRINARC)**

Principles of Architecture provides an overview to the various fields of architecture, interior design, and construction management. Achieving proficiency in decision making and problem solving is an essential skill for career planning and lifelong learning. Students use self-knowledge, education, and career information to set and achieve realistic career and educational goals. Job-specific training can be provided through training modules that identify career goals in trade and industry areas. Classroom studies include topics such as safety, work ethics, communication, information technology applications, systems, health, environment, leadership, teamwork, ethical and legal responsibility, employability, and career development and include skills such as problem solving, critical thinking, and reading technical drawings.

**Grade Placement: 9-12** 1 credit

**Interior Design I (INTERDS1)**

Interior Design I is a technical course that addresses psychological, physiological, and sociological needs of individuals by enhancing the environments in which they live and work. Students will use knowledge and skills related to interior and exterior environments, construction, and furnishings to make wise consumer decisions, increase productivity, promote sustainability, and compete in industry.

**Grade Placement: 10-12** 1 credit

**Prerequisites: Algebra I and English I**

**Interior Design II (INTERDS2)★**

**Advanced CTE Course**

Interior Design II is a technical laboratory course that includes the application of the employability characteristics, principles, processes, technologies, communication, tools, equipment, and materials related to interior design to meet industry standards.

**Grade Placement: 11-12** **2 credits**  
**Prerequisites: English II, Geometry, and Interior Design I**

**Practicum in Interior Design (PRACIDS1)★**

**Advanced CTE Course (Limited seating available)**

Practicum in Interior Design is a specific course designed to provide job-specific skills through laboratory training, job shadowing, or work situations in areas compatible with careers in interior design. Students will be expected to develop knowledge and skills related to housing, furnishings, and equipment management and services.

**Grade Placement: 12** **2 credits**  
**Prerequisite: Interior Design II**

**Architectural Design I (ARCHDSN1)**

In Architectural Design I, students will gain knowledge and skills needed to enter a career in architecture or construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, or landscape architecture. Architectural Design I includes the knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for nonresidential or residential architectural purposes.

**Grade Placement: 10-12** **1 credit**  
**Prerequisites: Algebra I and English I**

**Architectural Design II (ARCHDSN2)★**

**Advanced CTE Course**

In Architectural Design II, students will gain advanced knowledge and skills needed to enter a career in architecture or construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, or landscape architecture. Architectural Design II includes the advanced knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for nonresidential or residential architectural purposes.

**Grade Placement: 11-12** **2 credits**  
**Prerequisites: Architectural Design I and Geometry**

**Practicum in Architectural Design (PRACADS1)★**

**Advanced CTE Course (Limited seating available)**

Practicum in Architectural Design is designed to provide technical instruction in architectural design. Focuses on designing, planning, managing, building, and maintaining the built environment.

**Grade Placement: 12** **2 credits**  
**Prerequisite: Architectural Design II**

## **ARTS, A/V TECHNOLOGY, AND COMMUNICATIONS CLUSTER**

### **Business and Industry Endorsement**

**Principles of Arts, Audio/Video Technology, and Communications (PRINAAVTC)**

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 communications. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.



**Grade Placement: 8-9**

**1 credit**

**Animation I (ANIMAT1)**

Careers in animation span all aspects of motion graphics. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the history and techniques of the animation industry.

**Grade Placement: 10-12**

**1 credit**

**Animation II (ANIMAT2)★**

**Animation II and Lab (ANILAB2)★**

**Advanced CTE Course**

Careers in animation span all aspects of motion graphics. 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 create two- and three-dimensional animations. The instruction also assists students seeking careers in the animation industry. Students have the opportunity to earn Adobe Certification.

**Grade Placement: 11-12**

**1 or 2 credits**

**Prerequisite: Animation I**

**Practicum in Animation (PRACANI1)★**

**Advanced CTE Course (Limited seating available)**

Careers in animation span all aspects of the arts, audio/video technology, and communications industry. Building upon the concepts taught in Animation II and its co-requisite Animation 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 animation products in a professional environment. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

**Grade Placement: 11-12**

**2 credits**

**Prerequisites: Animation II or Animation II & Lab**

**Audio/Video Production I (AVPROD1)**

Careers in the audio and video technology and film production span all 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.

**Grade Placement: 9-12**

**1 credit**

**Prerequisite: None**

**Audio/Video Production II (AVPROD2)★**

**Audio/Video Production II and Lab (AVPLAB2)★**

**Advanced CTE Course**

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Building upon the concepts taught in Audio/Video Production, 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 products. This course may be

implemented in an audio format or a format with both audio and video. Students have the opportunity to earn Adobe Certification and TV Handbook Certification.

**Grade Placement: 10-12** **1 or 2 credits**

**Prerequisite: Audio/Video Production I**

**Practicum in Audio/Video Production (PRACAVP1)\***

**Advanced CTE Course (Limited seating available)**

Careers in audio/video production span all aspects of the audio/video communications industry. Building upon the concepts taught in Audio/Video Production II, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an increasing understanding of the industry with a focus on applying preproduction, production, and post-production audio and video 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. Students have the opportunity to earn Adobe Certification and TV Handbook Certification.

**Grade Placement: 11-12** **2 credits**

**Prerequisite: Audio/Video Production II**

**Digital Art and Animation**

**Advanced CTE Course**

Digital Art and Animation consists of computer images and animations created with digital imaging software. Digital Art and Animation has applications in many careers, including graphic design, advertising, web design, animation, corporate communications, illustration, character development, script writing, storyboarding, directing, producing, inking, project management, editing, and the magazine, television, film, and game industries. Students in this course will produce various real-world projects and animations.

**Grade Placement: 7-8** **1 credit**

**Digital Design and Media Production**

This course includes critical thinking, design approaches, the underlying theories, and a variety of digital media production techniques. Skills include digital graphics, audio, video, production and layouts.

**Grade Placement: 7-8** **1 credit**

**Graphic Design and Illustration I (GRAPHDI1)**

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design. Students will learn technical concepts, and vocabulary; using correct grammar, punctuation, and terminology to write and edit documents; and composing and editing copy for a variety of written documents such as brochures, programs, posters, flyers, and magazine covers. Students have the opportunity to earn Adobe Certification.

**Grade Placement: 10-12** **1 credit**

**Graphic Design and Illustration II (GRADHI2)★****Graphic Design and Illustration II and Lab (GRADLAB2)★****Advanced CTE Course**

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an advanced understanding of the industry with a focus on mastery of content knowledge and skills. Students will apply knowledge and skills in graphic arts and illustration to design and maintain websites and other interactive electronic media. Students have the opportunity to earn Adobe Certification.

**Grade Placement: 11-12** **1 or 2 credits**

**Prerequisites: Graphic Design and Illustration I**

**Practicum in Graphic Design and Illustration (PRACGRD1)★****Advanced CTE Course (Limited seating available)**

Careers in graphic design and illustration span all aspects of the advertising and visual communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop a technical understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. Students have the opportunity to earn Adobe Certification.

**Grade Placement: 11-12** **2 credits**

**Prerequisites: Graphic Design and Illustration II**

**Commercial Photography I (CPHOTO1)**

Careers in commercial photography span all aspects of the industry from setting up a shot to delivering products in a competitive market. In Commercial Photography I students will be expected to develop an understanding of the commercial photography industry with a focus on creating quality photographs.

**Grade Placement: 10-12** **1 credit**

**Commercial Photography II (CPHOTO2)★****Commercial Photography II and Lab (CPHLAB2)★****Advanced CTE Course**

Careers in commercial photography span all aspects of the industry from setting up a shot to delivering products in a competitive market. Within this context, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/ Video Technology, and Communications career cluster, students will be expected to develop an advanced technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs. Students have the opportunity to earn Adobe Certification.

**Grade Placement: 10-12** **1 or 2 credits**

**Prerequisite: Commercial Photography I (recommended)**

**Practicum in Commercial Photography (PRACCPH1)★****Advanced CTE Course (Limited seating available)**

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.

**Grade Placement: 11-12** **2 credit**

**Prerequisites: Commercial Photography I & Lab**

**Fashion Design I (FASHDSN1)**

Careers in fashion span all aspects of the textile and apparel industries. 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 fashion industry with an emphasis on design and construction.

**Grade Placement: 10-12** **1 credit**

**Fashion Design II (FASHDSN2)\***

**Advanced CTE Course**

Careers in fashion span all aspects of the textile and apparel industries. 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 fashion industry, with emphasis on design and construction.

**Grade Placement: 10-12** **1 credit**

**Prerequisite: Fashion Design I**

**Practicum in Fashion Design (PRACFAS1)\***

**Advanced CTE Course (Limited seating available)**

Careers in fashion span all aspects of the textile and apparel industries. 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 technical understanding of the business aspects of fashion, with emphasis on promotion and retailing. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

**Grade Placement: 11-12** **2 credits**

**Prerequisites: Fashion Design II**

**Professional Communications (PROFCOMM)**

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

**Grade Placement: 8-12** **½ credit**

**Digital Audio Technology I (DATECH1)**

Digital Audio Technology I is designed to provide students interested in audio production careers such as audio for radio and television broadcasting, audio for video and film, audio for animation and game design, music production and live sound, and additional opportunities and skill sets. Students will be expected to develop an understanding of the audio industry with a technical emphasis on production and critical-listening skills.

**Grade Placement: 10-12** **1 credit**

**Digital Audio Technology II (DATECH2)★****Advanced CTE Course**

Digital Audio Technology II was designed to provide additional opportunities and skill sets for students interested in audio production careers such as audio for radio and television broadcasting, audio for video and film, audio for animation and game design, and music production and live sound. Students will be expected to develop an understanding of the audio industry with a technical emphasis on production and critical-listening skills.

**Grade Placement: 10-12****1 credit****Prerequisite: Digital Audio Technology I****Practicum in Digital Audio★****Advanced CTE Course (Limited seating available)**

Careers in digital audio technology 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 digital audio technology industry with a focus on producing, promoting, and presenting professional quality audio ranging from podcasting to sound engineering.

**Grade Placement: 11-12****2 credits****Prerequisite: Digital Audio Technology II****Video Game Design (VIDGD)**

Video Game Design allows students to explore one of the largest industries in the global marketplace and the new emerging careers it provides in the field of technology. Students will learn gaming, computerized gaming, evolution of gaming, artistic aspects of perspective, design, animation, technical concepts of collision theory, and programming logic. Students will participate in a simulation of a real video game design team while developing technical proficiency in constructing an original game design.

**Grade Placement: 7-12****1 credit****Video Game Programming-Esports I (VIDEOPR)**

Video Game Programming expands on the foundation created in Video Game Design and designed to prepare students for college studies and professional careers centered around the Esports industry. Students will learn the basics of content creation, Esports analytics, tournament organization, technology needs, and more.

**Grade Placement: 9-12****1 Credit****Advanced Video Game Programming-Esports I (ADVIDEOGP) ★****Advanced CTE Course**

Advanced Video Game Programming expands on the principles of Video Game Programming-Esports I and designed to prepare students for college studies and professional careers centered around the Esports industry. In this course, students will investigate the inner workings of a fully functional role-playing game (RPG) by customizing playable characters, items, maps, and chests and eventually applying customizations by altering and enhancing the core game code.

**Grade Placement: 10-12****1 Credit****Prerequisites: Video Game Programming-Esports I**

**Practicum in Video Game (PRACENT)\*****Advanced CTE Course**

The Practicum in Video Game provides students the opportunity to apply classroom learnings and experiences to real-world business problems and opportunities, while expanding their skill sets and professional relationships as a real or simulated business owner versus the experience one would have as an employee. Students will prepare for an entrepreneurial career in video gaming and apply the knowledge and skills gained from courses taken in the video game sequence. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society.

**Grade Placement: 11-12****2 credits****Prerequisite: Adv. Video Game Programming (recommended)****BUSINESS, MARKETING, AND FINANCE CLUSTER****Business and Industry Endorsement****Principles of Business, Marketing, and Finance (PRINBMF)**

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, the marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in business, marketing, and finance.

**Grade Placement: 9-11****1 credit****Touch System Data Entry (TSDATAE)**

In Touch System Data Entry, students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students will need to apply touch system data entry for production of business documents.

**Grade Placement: 7-8****½ credit****Business Information Management I (BUSIM1)**

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students will apply technical skills through word-processing, spreadsheet, database, and electronic presentation software. Students are eligible for Microsoft Office (MOS) Certification.

**Grade Placement: 9-12****1 credit****Business Information Management II (BUSIM2)\***

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create complex word-processing documents, and develop sophisticated spreadsheets using charts and graphs, and make electronic presentations using appropriate multimedia software. Students are eligible for Microsoft Office (MOS) Certification.

**Grade Placement: 10-12****1 credit****Prerequisite: Business Information Management I**

**Business English (BUSENGL)**

In Business English, students enhance communication and research skills by applying them to the business environment, in addition to exchanging information and producing properly formatted business documents using emerging technology. This course satisfies the high school advanced English requirement.

**Grade Placement: 12****1 credit****Prerequisite: English III****Business Law (BUSLAW)**

Business Law is designed for students to analyze various aspects of the legal environment, including ethics, the judicial system, contracts, personal property, sales, negotiable instruments, agency and employment, business organization, risk management, and real property.

**Grade Placement: 11-12****1 credit****Global Business (GLOBBUS)****Advanced CTE Course**

Global Business is designed for students to analyze global trade theories, international monetary systems, trade policies, politics, and laws relating to global business as well as cultural issues, logistics, and international human resource management.

**Grade Placement: 10-12****½ credit****Virtual Business (VIRTBUS)**

Virtual Business is designed for students to start a virtual business by creating a web presence, conducting online and off-line marketing, examining contracts appropriate for an online business, and demonstrating project-management skills. Students will also demonstrate bookkeeping skills for a virtual business, maintain business records, and understand legal issues associated with a virtual business.

**Grade Placement: 10-12****½ credit****Business Management (BUSMGT)****Advanced CTE Course**

Business Management is designed to familiarize students with the concepts related to business management as well as the functions of management, including planning, organizing, staffing, leading, and controlling. Students will also demonstrate interpersonal and project-management skills.

**Grade Placement: 10-12****1 credit****Practicum in Business Management (PRACBM)★****Advanced CTE Course (Limited seating available)**

The Practicum is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or post-secondary education. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent leaders that promote team building, consensus, and collaborative work with others.

**Grade Placement: 11-12****2 credits****Prerequisite: Students must be 16 years of age with valid work documentation and have personal transportation.**

**Money Matters (MONEYM)**

In Money Matters, students will investigate money management from a personal financial perspective. Students will apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to establish short-term and long-term financial goals. Students will examine various methods of achieving short-term and long-term financial goals through various methods such as investing, tax planning, asset allocating, risk management, retirement planning, and estate planning. Students have the opportunity to earn WISE Financial Certification.

**Grade Placement: 9-12****1 credit****Banking and Financial Services (BANKFIN)**

Students develop knowledge and skills in the economic, financial, technological, international, social, and ethical aspects of banking to become competent consumers, employees, and entrepreneurs. Students incorporate a broad base of knowledge that includes the operations, sales, and management of banking institutions to gain a complete understanding of how banks function within society. Students have the opportunity to earn WISE Financial Certification.

**Grade Placement: 10-12****½ credit****Accounting I (ACCOUNT1)**

Students investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students reflect on this knowledge as they engage in the process recording, classifying, summarizing, analyzing, and communicating accounting information. Students formulate and interpret financial information for use in management decision making.

**Grade Placement: 10-12****1 credit****Accounting II (ACCOUNT2)★****Advanced CTE Course**

Students continue to investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students reflect on this knowledge as they engage various managerial and cost accounting activities. Students formulate and interpret financial information for use in management decision-making. Students have the opportunity to earn QuickBooks Certification.

**Grade Placement: 11-12****1 credit****Prerequisite: Accounting I****Financial Mathematics (FINMATH)**

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. Financial Mathematics will integrate career and postsecondary education planning into financial decision making including services for financial and investment planning, banking, insurance, and business financial management. This course satisfies a high school Mathematics graduation requirement.

**Grade Placement: 10-12****1 credit****Prerequisite: Algebra I****Entrepreneurship (ENTREP)**

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the



course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

**Grade Placement: 10-12**

**1 credit**

### **Advertising (ADVERTIS)**

#### **Advanced CTE Course**

Advertising is designed as a comprehensive introduction to the principles and practices of advertising. Students will gain knowledge of techniques used in current advertising, including print, broadcast, and digital media. The course explores the social, cultural, ethical, and legal issues of advertising, historical influences, strategies, media decision processes as well as integrated marketing communications, and careers in advertising and sales promotion. The course provides an overview of how communication tools can be used to reach target audiences and increase consumer knowledge.

**Grade Placement: 9-12**

**1/2 credit**

### **Sports and Entertainment Marketing (SPORTSEM)**

Sports and Entertainment Marketing will provide students with a thorough understanding of the marketing concepts and theories that apply to sports and entertainment. The areas this course will cover include basic marketing concepts, publicity, sponsorship, endorsements, licensing, branding, event marketing, promotions, and sports and entertainment marketing strategies.

**Grade Placement: 9-12**

**½ credit**

### **Social Media Marketing (SMEDMKTG)**

#### **Advanced CTE Course**

Social Media Marketing is designed to look at the rise of social media and how marketers are integrating social media tools in their overall marketing strategy. The course will investigate how the marketing community measures success in the new world of social media. Students will manage a successful social media presence for an organization, understand techniques for gaining customer and consumer buy-in to achieve marketing goals, and properly select social media platforms to engage consumers and monitor and measure the results of these efforts.

**Grade Placement: 9-12**

**½ credit**

### **Practicum in Entrepreneurship (PRACENT)\***

#### **Advanced CTE Course**

Practicum in Entrepreneurship allows students to apply classroom learnings and experiences to real-world business problems and opportunities while expanding their skill sets and professional relationships as a real or simulated business owner versus the experience one would have as an employee. Students will prepare for an entrepreneurial career in their area of interest in their career cluster and build on and apply the knowledge and skills gained from courses taken in an array of career areas. Practicum experiences occur in a paid or unpaid arrangement and various locations appropriate to the nature and level of the student's need for work-based learning experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. It is recommended that students are paired with local business owners or employers in their specific industry program of study.

**Grade Placement: 11-12**

**2 credits**

**Practicum in Marketing (PRACMKT1)\*****Advanced CTE Course (Limited seating available)**

Practicum in Marketing is a series of dynamic activities that focus on the customer to generate a profitable exchange. Students will gain knowledge and skills that help them to be proficient in one or more of the marketing functional areas associated with distribution, financing, marketing information management, pricing, product planning, promotion, purchasing, risk management, and selling skills. Students will integrate skills from academic subjects, information technology, interpersonal communication, and management training to make responsible decisions. The practicum course is a paid or unpaid experience for students participating in a coherent sequence of career and technical courses in marketing.

**Grade Placement: 11-12****2 credit****Prerequisite: Students must be 16 years of age with valid work documentation and have personal transportation.**

## EDUCATION AND TRAINING CLUSTER

### Public Services Endorsement

**Principles of Education and Training (PRINEDTR)**

Principles of Education and Training 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. Students will develop a graduation plan that leads to a specific career choice in the student's interest area.

**Grade Placement: 9-10****1 credit****Human Growth and Development (HUGRDEV)**

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

**Grade Placement: 9-12****1 credit****Instructional Practices in Education and Training (INPRAC)\*****Advanced CTE Course (Limited seating available)**

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, middle childhood, and adolescence 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.

**Grade Placement: 11-12****2 credits**

**Practicum in Education and Training (PRACEDTR1)★****Advanced CTE Course (Limited seating available)**

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, middle childhood, and adolescence 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. Students have the opportunity to earn the Cardio-Pulmonary Resuscitation (CPR) Certification.

**Grade Placement: 12****2 credits****Prerequisites: Instructional Practices in Education and Training**

## HEALTH SCIENCE CLUSTER

### Public Services Endorsement

**Principles of Health Science (PRINHLSC)**

Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry.

**Grade Placement: 9-10****1 credit****Medical Terminology (MEDTERM)**

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

**Grade Placement: 10-11****1 credit****Health Science Theory (HLTHSCI)★****Advanced CTE Course**

The Health Science Theory 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.

**Grade Placement: 11-12****1 credit****Prerequisite: Biology****Health Science Theory/Clinical (HLSCLIN) ★****Advanced CTE Course (Limited seating available)**

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. Students have to earn the Cardio-Pulmonary Resuscitation (CPR) Certification and Automatic Emergency Defibrillator (ADE) Certification.

**Grade Placement: 11-12****2 credits****Prerequisite: Biology, up to date on shots (provide a current shot record, undergo a background check and have work documentation)**

### **Health Informatics (HLTHINF) ★**

#### **Advanced CTE Course**

The Health Informatics course is designed to provide knowledge of one of the fastest growing areas in both academic and professional fields. The large gap between state of the art computer technologies and the state of affairs in health care information technology has generated demand for information and health professionals who can effectively design, develop, and use technologies such as electronic medical records, patient monitoring systems, and digital libraries, while managing the vast amount of data generated by these systems. Upon completion of this course, the students qualify to sit for the national certification exam through NCCT Inc. for the National Certified Insurance Coding Specialist (NCICS).

**Grade Placement: 11-12**

**1 credit**

**Prerequisite: Medical Terminology and Business Information Management I**

### **Medical Microbiology (MICRO)**

#### **Advanced CTE Course**

Students in Medical Microbiology explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases. This course will count as a fourth year Science credit.

**Grade Placement: 10-12**

**1 credit**

**Prerequisite: Biology and Chemistry**

### **Anatomy and Physiology (ANATPHYS)**

#### **Advanced CTE Course**

In Anatomy and Physiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis. This course will count as a Science credit.

**Grade Placement: 11-12**

**1 credit**

**Prerequisites: Biology and a second science credit.**

### **Practicum in Health Science – Dental (PRACHLS1)★**

#### **Advanced CTE Course (Limited seating available)**

This course is designed to give the student a hands-on look at the field of dentistry and what each profession entails. Hands-on experience will be obtained through dental office rotations, use and practice in the dental clinic on campus, research projects, oral hygiene instruction to elementary school children, and associational involvement, law and ethics. It will further allow the student the opportunity to become a Registered Dental Assistant in the state of Texas and learn dental assisting skills for the workplace. Students have the opportunity to earn the Cardio-Pulmonary Resuscitation (CPR) Certification and Automatic Emergency Defibrillator (AED). Also students have the opportunity to earn the Dental Assistant Registered (RDA) Certification.

**Grade Placement: 12**

**2 credits**

**Prerequisites: Health Science Theory, Biology**

### **Practicum in Health Science Pharmacy Technician (PRACHLS1)★**

#### **Advanced CTE Course (Limited seating available)**

A Pharmacy Technician is an individual who works under the supervision of a pharmacist, and assists in preparing and dispensing medications for patients and customers. The students will learn history, ethics, law, terminology, and necessary calculations for the certification of a Pharmacy Technician. Students

have the opportunity to earn the Cardio-Pulmonary Resuscitation (CPR) Certification and Automatic Emergency Defibrillator (AED). Also students will have the opportunity to earn the Pharmacy Technician Certification.

**Grade Placement: 12**

**2 credits**

**Prerequisites: Health Science Theory, Biology**

**Practicum in Health Science I – Medical Assisting (PRACHLSC1)★**

**Advanced CTE Course (Limited seating available)**

A medical assistant is a multi-skilled allied health care professional that specializes in procedures commonly performed in the ambulatory health care setting. Medical assistants perform both clinical and administrative duties and assist a variety of providers including physicians, nurse practitioners and physician assistants. They typically work in medical offices, clinics, urgent care centers and may work in general medicine or specialty practices. Students will have the opportunity to test for certification to earn their Medical Assistant Certification (CCMA) through the National Healthcare Association.

**Grade Placement: 12**

**2 credits**

**Prerequisites: Health Science Theory, Biology**

**Practicum in Health Science I – Patient Care Technician (PRACHLSC1)★**

**Advanced CTE Course (Limited seating available)**

Doctors, nurses and other healthcare professionals rely on Patient Care Technicians/Assistants to assist with the critical day-to-day care some patients require. As a Patient Care Technician/Assistant, you may perform some or all of the following tasks: provide basic patient care — bathing, feeding, catheter care, etc.; acquire, distribute and administer patient care supplies; perform safety checks and ensure cleanliness in patient rooms; accommodate the special needs of patients accordingly; obtain EKG readings and monitor vital signs; perform phlebotomy procedures; and provide emotional support to patients and families, particularly coping with grief and death. Students will have the opportunity to test for certification to earn their Certified Patient Care Technician/Assistant (CPCT/A) through the National Healthcare Association.

**Grade Placement: 12**

**3 credits**

**Prerequisites: Health Science Theory, Biology**

**Practicum in Health Science – Medical Cooperative (EXPRHLS1)★**

**(Limited seating available)**

This course offers on-the-job training in a health-related field for students. The course includes classroom instruction with 15-20 hours per week of supervised work experience in an approved medical career.

**Grade Placement: 12**

**3 credits**

**Prerequisites: Health Science Theory and Biology. The student must be 16 years of age with valid work documentation and have personal transportation.**

**Athletic Trainer I (PRINHLSC)**

**(Limited seating available)**

Athletic training encompasses the prevention, examination, diagnosis, treatment and rehabilitation of emergent, acute or chronic injuries and medical conditions. Athletic training is recognized by the American Medical Association (AMA), Health Resources Services Administration (HRSA) and the Department of Health and Human Services (HHS) as an allied health care profession. This course allows students to work alongside the campus' athletic department's sports medicine program.

**Grade Placement: 9-10**

**1 credit**

**Athletic Trainer II (HLTHSCI)★****Advanced CTE Course (Limited seating available)**

Athletic training encompasses the prevention, examination, diagnosis, treatment and rehabilitation of emergent, acute or chronic injuries and medical conditions. Athletic training is recognized by the American Medical Association (AMA), Health Resources Services Administration (HRSA) and the Department of Health and Human Services (HHS) as an allied health care profession. This course allows students to work alongside the campus' athletic department's sports medicine program.

**Grade Placement: 10-12****2 credits****Prerequisite: Biology****Athletic Trainer III (PRACHLS1)★****Advanced CTE Course (Limited seating available)**

Athletic training encompasses the prevention, examination, diagnosis, treatment and rehabilitation of emergent, acute or chronic injuries and medical conditions. Athletic training is recognized by the American Medical Association (AMA), Health Resources Services Administration (HRSA) and the Department of Health and Human Services (HHS) as an allied health care profession. This course allows students to work alongside the campus' athletic department's sports medicine program.

**Grade Placement: 11-12****2 credits****Prerequisites: Health Science Theory, Biology****Athletic Trainer IV (PRACHLS2)★****Advanced CTE Course (Limited seating available)**

Athletic training encompasses the prevention, examination, diagnosis, treatment and rehabilitation of emergent, acute or chronic injuries and medical conditions. Athletic training is recognized by the American Medical Association (AMA), Health Resources Services Administration (HRSA) and the Department of Health and Human Services (HHS) as an allied health care profession. This course allows students to work alongside the campus' athletic department's sports medicine program.

**Grade Placement: 12****2 credits****Prerequisites: Health Science Theory, Biology, Athletic Trainer III**

## **HOSPITALITY AND TOURISM CLUSTER**

### **Business and Industry Endorsement**

**Principles of Hospitality and Tourism (PRINHOSP)**

Principles of Hospitality and Tourism introduces students to an industry that encompasses lodging, travel and tourism, recreation, amusements, attractions, and food/beverage operations. Students learn knowledge and skills focusing on communication, time management, and customer service that meet industry standards. Students will explore the history of the hospitality and tourism industry and examine characteristics needed for success in that industry.

**Grade Placement: 9-11****1 credit****Introduction to Culinary Arts (INCULART)**

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.

**Grade Placement: 9-10**

**1 credit**

**Culinary Arts (CULARTS)**

**(Limited seating available)**

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 or other appropriate industry certifications. This course is offered as a laboratory-based course.

**Grade Placement: 10-12**

**2 credits**

**Advanced Culinary Arts (ADCULART)★**

**Advanced CTE Course (Limited seating available)**

Advanced Culinary Arts will extend content and enhance skills introduced in Culinary Arts by in-depth instruction of industry-driven standards in order to prepare students for success in higher education, certifications, and/or immediate employment. Students can pursue a national sanitation certification or other appropriate industry certifications.

**Grade Placement: 11-12**

**2 credits**

**Prerequisite: Culinary Arts**

**Practicum in Culinary Arts (PRACCUL1)★**

**Advanced CTE Course (Limited seating available)**

Students shall be awarded two credits for successful completion of this course. A student may repeat this course once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills. Students can pursue a national sanitation certification or other appropriate industry certifications.

**Grade Placement: 11-12**

**2 credits**

**Prerequisite: Culinary Arts**

## **HUMAN SERVICES CLUSTER**

### **Public Service Endorsement**

**Principles of Human Services (PRINHUSR)**

This laboratory course will enable students to investigate careers in the human services career cluster, including counseling and mental health, early childhood development, family and community, and personal care services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers.

**Grade Placement: 8-9**

**1 credit**

**Interpersonal Studies (INTERSTU)**

Interpersonal Studies examines how the relationships between individuals and among family members significantly affect the quality of life. Students use knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family

members, manage multiple adult roles, and pursue careers related to counseling and mental health services.

**Grade Placement: 10-12**

**½ credit**

**Lifetime Nutrition & Wellness (LNURTWEL)**

This course allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality, human services, and health sciences. Laboratory experiences will focus on the integration of nutrition and wellness knowledge with basic food preparation and management skills. Class will include laboratory experiences.

**Grade Placement: 10-12**

**½ credit**

**Applied Nutrition and Dietetics (APPNUTR)**

**Advanced CTE Course**

The Applied Nutrition and Dietetics course builds on the fundamental nutritional knowledge gained from the Lifetime Nutrition and Wellness course by reinforcing professional standards, food safety and sanitation, food service and management, and nutrition care for individuals and groups at a deeper level. The course also introduces and applies career focused and real-world topics related to nutrition such as the nutrition care process, types of nutrition education and counseling, development of nutrition programs, and nutrition industry related research. Students will research requirements necessary to become a professional in the nutrition and dietetics field such as a registered dietitian, licensed nutritionist, or clinical dietitian.

**Grade Placement: 10-12**

**1 credit**

**Counseling and Mental Health (COUNSMH)**

**Advanced CTE Course**

In Counseling and Mental Health, students model the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. Students are expected to apply knowledge of ethical and legal responsibilities, limitations, and the implications of their actions. Professional integrity in counseling and mental health care is dependent on acceptance of ethical and legal responsibilities.

**Grade Placement: 11-12**

**1 credit**

**Practicum in Human Services - General (PRACHUS1) \***

**Advanced CTE Course (Limited seating available)**

Practicum in Human Services provides background knowledge and occupation-specific training that focuses on the development of consumer services, early childhood development and services, counseling and mental health services, and family and community-services careers. Content for Practicum in Human Services is designed to meet the occupational preparation needs and interests of students and should be based upon the knowledge and skills selected from two or more courses in a coherent sequence in the human services cluster.

**Grade Placement: 11-12**

**2 credits**

**Introduction to Cosmetology (INTCOSMO)**

**(Limited seating available)**

Students explore areas such as bacteriology, sterilization and sanitation, hair styling, manicuring, shampooing and the principles of hair cutting, hair styling, hair coloring, skin care, and facial makeup. The student researches careers in the personal care services industry. To prepare for success, students



must have skills relative to this industry, as well as academic knowledge and skills. Students may begin to earn clock hours toward state licensing requirements.

**Grade Placement: 11** **1 credit**

**Prerequisite: To be taken concurrently with Cosmetology I**

### **Cosmetology I (COSMET1)**

**(Limited seating available)**

Students coordinate integration of academic, career, and technical knowledge, and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the Texas Department of Licensing and Regulation requirements for licensure upon passing the state examination. Analysis of career opportunities, requirements, expectations, and development of workplace skills are included.

**Grade Placement: 11** **2 credits**

**Prerequisite: To be taken concurrently with Intro to Cosmetology**

### **Cosmetology II (COSMET2)\***

**Advanced CTE Course (Limited seating available)**

Students review academic knowledge and skills related to cosmetology. This course is designed to provide advanced training for employment in cosmetology careers. Instruction includes advanced training in sterilization processes, hair care, nail care, and skin care and meets the Texas Department of Licensing and Regulation requirements for licensure upon passing the state examination. Students apply, combine, and justify knowledge and skills in a variety of settings and problems.

**Grade Placement: 12** **2 credits**

**Prerequisites: Cosmetology I, and 480 hours in Cosmetology I to be taken concurrently with Practicum in Human Service.**

### **Nail Care, Enhancements and Spa Services (NCESS)**

**(Limited seating available)**

Nail Care, Enhancement and Spa Service students will demonstrate proficiency in academic, technical, and practical knowledge and skills (basic manipulative skills, safety judgements, and proper work habits). The content is designed to provide the occupational skills required for licensure as a Nail Technician or related career avenue. Instruction includes advanced training in professional standards/employability skills, TDLR rules and regulations, use of tools, equipment, technologies and materials, and practical skills.

**Grade Placement: 11-12** **2 credit**

**Prerequisite: To be taken concurrently with Cosmetology II.**

### **Parenting Education I (PAED1)**

This course is designed to address the special needs and interests of students who are parents or expectant parents. Special emphasis is placed on prenatal care and development, postnatal care, infant care, child development, and parenting skills. Other units of study address personal development, responsible parenthood and adult roles, family problems and crises, conflict resolution, family health issues, nutrition, safety, management, and employability skills. Students develop the knowledge and skills to the multiple roles of student, parent, family member, and provider.

**Grade Placement: 9-12** **1 credit**

**Parenting Education II (PAED1)**

Parenting Education II is designed to build on education and experiences from Parenting Education I. This course provides more in-depth knowledge of parenting and child development including implications of expectations of children, child abuse, disabilities, and issues impacting young families such as employment, postsecondary education, transportation, child care, housing, and personal responsibility. Students develop the knowledge and skills to manage the multiple roles of being a student, parent, family member, and provider.

**Grade Placement: 10-12****1 credit**

## **INFORMATION TECHNOLOGY CLUSTER**

### **Business and Industry Endorsement**

**Principles of Information Technology (PRINIT)**

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.

**Grade Placement: 9-10****1 credit****Computer Maintenance (COMPMTN)**

Students acquire knowledge of computer maintenance and creating appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as related to computer maintenance. Students will apply technical skills to address the IT industry and emerging technologies.

**Grade Placement: 10-12****1 credit****Prerequisites: None****Practicum in Information Technology (PRACIT1)★****Advanced CTE Course (Limited seating available)**

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.

**Grade Placement: 12****2 credits****Prerequisites: A minimum of two high school information technology (IT) courses.**

## LAW AND PUBLIC SERVICE CLUSTER

### Public Services Endorsement

#### **Principles of Law, Public Safety, Corrections, and Security (PRINLPCS)**

In Principles of Law, Public Safety, Corrections, and Security introduce students to professions in law enforcement, security, corrections, and fire and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, fire services, security, and corrections.

**Grade Placement: 9-12**

**1 credit**

#### **Law Enforcement I (LAWENF1)**

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

**Grade Placement: 10-12**

**1 credit**

#### **Law Enforcement II (LAWENF2)\***

##### **Advanced CTE Course**

Law Enforcement II provides the knowledge and skills necessary to prepare for a career in law enforcement. This course includes the ethical and legal responsibilities, operation of police and emergency telecommunication equipment, and courtroom testimony. Students have the opportunity to earn the 911 dispatcher certification.

**Grade Placement: 10-12**

**1 credit**

#### **Forensic Science (FORENSCI)**

##### **Advanced CTE Course**

Forensic Science is a course that introduces students to the application of science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, and cartridge cases. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science. This course satisfies a high school science graduation requirement.

**Grade Placement: 11-12**

**1 credit**

**Prerequisites: Biology and Chemistry**

#### **Criminal Investigation (CRINVEST)**

Criminal Investigation is a course that introduces students to the profession of criminal investigations. Students will understand basic functions of criminal investigations and procedures and will learn how to investigate or follow up during investigations. Students will learn terminology and investigative procedures related to criminal investigation, crime scene processing, evidence collection, fingerprinting, and courtroom presentation. Through case studies and simulated crime scenes, students will collect and analyze evidence such as fingerprint analysis, bodily fluids, hairs, fibers, shoe and tire impressions, bite marks, drugs, tool marks, firearms and ammunition, blood spatter, digital evidence, and other types of evidence.

**Grade Placement: 10-12**

**1 credit**

**Court Systems and Practices (COURTSP)**

Court Systems and Practices is an overview of the federal and state court systems. The course identifies the roles of judicial officers and the trial processes from pretrial to sentencing and examines the types and rules of evidence. Emphasis is placed on constitutional laws for criminal procedures such as search and seizure, stop and frisk, and interrogation.

**Grade Placement: 10-12**

**1 credit**

**Correctional Services (CORRSRVS)****Advanced CTE Course**

Prepares students for certification required for employment as a municipal, county, state, or federal correctional officer. Students will learn the role and responsibilities of a county or municipal correctional officer; discuss relevant rules, regulations, and laws of municipal, county, state, or federal facilities; and discuss defensive tactics, restraint techniques, and first aid procedures as used in the municipal, county, state, or federal correctional setting. Students will analyze rehabilitation and alternatives to institutionalization for inmates.

**Grade Placement: 10-12**

**1 credit**

**Practicum in Law, Public Safety, Corrections, and Security (PRACLPS1)★****Advanced CTE Course (Limited seating available)**

The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Law and Public Service cluster. The Practicum is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experience can occur in a variety of locations appropriate to the nature and level of experience. Students have the opportunity to earn the 911 dispatcher certification, the Cardio-Pulmonary Resuscitation (CPR) Certification and Automatic Emergency Defibrillator (AED), the Community Emergency Response Team (CERT) Certification, and First Aid Certification.

**Grade Placement: 11-12**

**2 credits**

**Practicum in Law, Public Safety, Corrections, and Security – Law Academy I (PRACLPS1)★****Advanced CTE Course (Limited seating available)**

Law Academy I is a capstone experience for students participating in a coherent sequence of career and technical education courses in the Law and Public Service cluster for students who have an interest in furthering their education or pursuing a career in Law Enforcement. Law Academy I contain components of instruction and skill-based training that include physical training. Physical training can consist of calisthenics, running, circuit weight training, and strength and endurance challenges. This physical training is intended to mimic and prepare students for education and careers in Law Enforcement. Physical education will educate and prepare students for the fitness levels required by many post-secondary law enforcement academies and law enforcement agencies.

**Grade Placement: 11**

**1 credit**

**Practicum in Law, Public Safety, Corrections, and Security – Law Academy II (PRACLPS1)★****Advanced CTE Course (Limited seating available)**

Law Academy II is a capstone experience for students participating in a coherent sequence of career and technical education courses in the Law and Public Service cluster for students who have an interest in furthering their education or pursuing a career in Law Enforcement. Law Academy II contain components of instruction and skill-based training that include physical training. Physical training can consist of calisthenics, running, circuit weight training, and strength and endurance challenges. This physical training is intended to mimic and prepare students for education and careers in Law Enforcement. Physical education will educate and prepare students for the fitness levels required by

many post-secondary law enforcement academies and law enforcement agencies.

**Grade Placement: 12**

**1 credit**

## **MANUFACTURING CLUSTER**

### Business and Industry Endorsement

#### **Principles of Manufacturing (PRINMAN)**

In Principles of Manufacturing, students are introduced to knowledge and skills used in the proper application of principles of manufacturing. The study of manufacturing technology allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities. Students will gain an understanding of what employers require to gain and maintain employment in manufacturing careers.

**Grade Placement: 8-12**

**1 credit**

#### **Introduction to Welding (INTRWELD)**

Introduction to Welding will provide an introduction to welding technology with an emphasis on basic welding laboratory principles and operating procedures. 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.

**Grade Placement: 9-10**

**1 credit**

#### **Welding I (WELD1)**

##### **(Limited seating available)**

Rapid advances in technology have created new career opportunities and demands in many industries. Welding I provides the knowledge, skills, and technologies required for employment in metal technology systems. Students develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success. Students have the opportunity to earn the AWS-SENSE Certification, NCCER Certifications, also OSHA 500 Safety Certification.

**Grade Placement: 10-12**

**2 credits**

#### **Welding II (WELD2)\***

##### **Advanced CTE Course (Limited seating available)**

Welding II builds on knowledge and skills developed in Welding I. Students will develop advanced welding concepts and skills as they relate to personal and career development. This course integrates academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Students will have the opportunity to earn an AWS D1.1 Certification and NCCER Certification.

**Grade Placement: 11-12**

**2 credits**

**Prerequisite: Welding I**

**Practicum in Manufacturing (PRACMAN1)\*****Advanced CTE Course (Limited seating available)**

Practicum in Manufacturing course is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experience can occur in a variety of location appropriate to the nature and level of experience. Must have appropriate work documentation.

**Grade Placement: 12****2 credits****Robotics I (ROBOTIC1)**

In Robotics I, students will transfer academic skills to component designs in a project-based environment through implementation of the design process. Students will build prototypes or use simulation software to test their designs. Additionally, students will explore career opportunities, employer expectations, and educational needs in the robotic and automation industry.

**Grade Placement: 9-10****1 credit****Robotics II (ROBOTIC2)\*****Advanced CTE Course**

In Robotics II, students will explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs.

**Grade Placement: 10-12****1 credit****Prerequisite: Robotics I****SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS CLUSTER****STEM Endorsement****Principles of Applied Engineering (PRAPPENG)**

Principles of Applied Engineering provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will have an understanding of the various fields of engineering and will be able to make informed career decisions. Further, students will have worked on a design team to develop a product or system. Students will use multiple software applications to prepare and present course assignments.

**Grade Placement: 8-12****1 credit****Fundamentals of Computer Science (TAFCS)**

Students learn about the computing tools that are used every day. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will learn the problem-solving and reasoning skills that are the foundation of computer science.

**Grade Placement: 9-12****1 credit**

**Computer Science I (TACS1)**

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

**Grade Placement: 9-12****1 credit****Prerequisite: Algebra I****AP Computer Science Principles (APCSPRIN)****Advanced CTE Course**

AP Computer Science Principles introduces students to the breadth of the field of computer science. In this course, students will learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They will incorporate abstraction into programs and use data to discover new knowledge. Students will also explain how computing innovations and computing systems, including the Internet, work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical.

**Grade Placement: 10-12****1 credit****AP Computer Science, Math (APTACSAM) ★****Advanced CTE Course**

AP Computer Science introduces students to computer science through programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language.

**Grade Placement: 11-12****1 credit****Engineering Design and Presentation I (ENGDSPI)****Advanced CTE Course**

Students enrolled in this course will demonstrate knowledge and skill of the process of design as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students will transfer advanced academic skill to component designs. Additionally, students explore career opportunities in engineering, technology, and drafting and what is required to gain and maintain employment in these areas.

**Grade Placement: 10-12****1 credit****Prerequisite: Algebra I**

### **Engineering Design and Presentation II (ENGDSR2)★**

#### **Advanced CTE Course**

Engineering Design and Presentation II is a continuation of knowledge and skills learned in Engineering Design and Presentation I. Students enrolled in this course will demonstrate knowledge and skills of the design process as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, 3D and prototypes.

Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students will transfer advanced academic skills to component designs. Emphasis will be placed on using skills from ideation through prototyping.

**Grade Placement: 11-12** **2 credits**

**Prerequisites: Algebra I and Geometry**

### **Introduction to Aerospace (MANENGT1)**

In Manufacturing Engineering Technology I, students will gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. Students will prepare for success in the global economy. The study of manufacturing engineering will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing setting.

**Grade Placement: 10-12** **1 credit**

### **Aerospace I (SCRID)★**

#### **Advanced CTE Course**

Introductory level course promoting the student's understanding of innovation, the Research and Development (R&D) industry, and work/life skills such as problem-solving, design, development, testing and analysis, leadership and teamwork using hands-on projects. This course satisfies a high school science graduation requirement.

**Grade Placement: 11-12** **1 credit**

**Prerequisites: Biology, Chemistry, Integrated Physics and Chemistry (IPC), or Physics.**

### **Aerospace II (ENGDP2)★**

#### **Advanced CTE Course**

Students design and develop unmanned aerial vehicles for research or industrial applications. Advanced students develop sounding rockets capable of lofting scientific payloads to 100,000 feet for collaborative research with universities, ultimately launching their vehicles at a missile launch range. This course satisfies a high school science graduation requirement.

**Grade Placement: 11-12** **1 credit**

**Prerequisites: Algebra I and Geometry.**

### **Practicum in Science, Technology, Engineering, and Mathematics (PRCSTEM1)★**

#### **Advanced CTE Course**

Practicum in STEM 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.

**Grade Placement: 11-12** **2 credits**

**Prerequisites: Algebra I and Geometry**



## TRANSPORTATION, DISTRIBUTION, AND LOGISTICS CLUSTER

### Business and Industry Endorsement

#### **Automotive Basics (AUTOBASC)**

Automotive Basics includes knowledge of the basic automotive systems and the theory and principles of the components that make up each system and how to service these systems. Automotive Basics includes applicable safety and environmental rules and regulations. In Automotive Basics, students will gain knowledge and skills in the repair, maintenance, and servicing of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

**Grade Placement: 9-12**

**1 credit**

#### **Automotive Technology I: Maintenance and Light Repair (AUTOTEC1)**

##### **Advanced CTE Course (Limited seating available)**

Automotive Technology I: Maintenance and Light Repair includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. This course includes applicable safety and environmental rules and regulations. In Automotive Technology I: Maintenance and Light Repair, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability. Students have the opportunity to earn the Safety/Pollution Prevention Certification (S/P2).

**Grade Placement: 9-12**

**2 credits**

#### **Automotive Technology II: Automotive Service (AUTOTEC2)\***

##### **Advanced CTE Course (Limited seating available)**

Automotive Technology II: Automotive Service includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. Automotive Technology II: Automotive Service includes applicable safety and environmental rules and regulations. In this course, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

**Grade Placement: 11-12**

**2 credits**

**Prerequisite: Automotive Technology I: Maintenance and Light Repair**

#### **Practicum in Transportation Systems (PRACTRS1)\***

##### **Advanced CTE Course (Limited seating available)**

This course is a paid or unpaid capstone experience for students who have taken Automotive Technology and who are accepted into the AYES (Automotive Youth Educational Systems) program. The course 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.

**Grade Placement: 11-12**

**2 credits**

**Prerequisite: Automotive Technology II**

**Principles of Maritime Science (PRMSCI)**

The Principles of Maritime Science course is designed to instruct students in the principles of maritime science as outlined by the Code of Federal Regulations (CFR) directly related to the National Maritime Center and the Merchant Mariner Credentialing Program.

**Grade Placement: 9-12**

**1 credit**

**Prerequisites: To be taken concurrently with Maritime Science I.**

**Maritime Science I (MSCI1)**

Maritime Science I provides training for entry-level employment and a basis for continuing education in deck and piloting careers and merchant mariner credentialing. Students will build on the foundational knowledge acquired in the Principles of Maritime Science course. Maritime Science I will instruct students in progressing aspects of vessel piloting and navigation, safety of life at sea, voyage planning, shipboard damage control and marine pollution. Specifically, students will understand safety expectations, laws, and environmental and human factors involved in the maritime industry. The course focuses on lab assignments and simulator experiences to reinforce critical-thinking and decision-making skills in navigation, ship handling, collision avoidance, and risk assessment and mitigation. Navigation instruction, including chart preparation, various distance, speed, and time relationships, positioning techniques, calculation of tides and currents, and voyage planning, and aids to navigation, will be explored. Students will learn basic shipboard damage control actions required in the event of shipboard casualties, search and rescue, advancements, collateral duties, and other personnel management issues. Maritime Science I and II will be taken concurrently.

**Grade Placement: 9-12**

**1 credit**

**Prerequisites: To be taken concurrently with Principles of Maritime Science.**

**Maritime Science II (MSCI2)★****Advanced CTE Course**

Students will develop new skills such as advanced navigation coordination; collision avoidance; briefing the command; electronic navigation theory; basic, routine, and emergency ship handling procedures; external communications; and other relevant knowledge, skills, and techniques. Upon successful completion of this course, students will be able to plan and execute safe vessel navigation. Students will exhibit knowledge of all bridge navigation (TRANSAS, ECDIS, and Paper Charts) equipment and procedures. Using case studies and real world simulations, students will identify the contributing factors involved in maritime accidents. Maritime Science I and II will be taken concurrently.

**Grade Placement: 10-12**

**1 credit**

**Prerequisite: To be taken concurrently with Introduction to Shipboard Engineering**

**Introduction to Shipboard Engineering (INTSE)**

Introduction to Shipboard Engineering is designed to provide training for entry-level employment and/or a basis for continuing education in shipboard engineering and merchant mariner credentialing.

**Grade Placement: 10-12**

**1 credit**

**Prerequisite: To be taken concurrently with Maritime Science II.**

**Concepts of Distribution and Logistics Technology (DISTLOG)**

In Concepts of Distribution and Logistics Technology, students will gain knowledge and skills in safe application, design, and assessment of technologies used in the supply chain and logistics industries. The students will apply knowledge and skills in using standard and emerging technologies in the field of logistics. This course allows students to understand, apply, and simulate the new technologies of distribution and logistics. This course will provide students with a broader basis for understanding the technology of managing, storing, shipping, and receiving different materials. These technologies will

include database tracking and delivering software, equipment, and services used in the field. The course will develop the students' knowledge of distribution, logistics, and the supply chain.

**Grade Placement: 10-12**

**1 credit**

**Principles of Distribution and Logistics (PRINDILG)**

In Principles of Distribution and Logistics, 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 logistics of warehousing and transportation systems. Students should apply knowledge and skills in the application, design, and production of technology as it relates to distribution and logistics industries. This course allows students to reinforce, apply, and transfer their academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings.

**Grade Placement: 9-12**

**1 credit**

**Distribution and Logistics (DISTLGS)**

**Advanced CTE Course**

Distribution and Logistics is designed to provide training for entry-level employment in distribution and logistics. This course focuses on the business planning and management aspects of distribution and logistics. To prepare for success, students will learn, reinforce, experience, apply, and transfer their knowledge and skills related to distribution and logistics.

**Grade Placement: 10-12**

**1 credit**

**Management of Transportation Systems (MNGTRSY)**

In Management of Transportation Systems, students will gain knowledge and skills in material handling and distribution and proper application, design, and production of technology as it relates to the transportation industries. This course includes the safe operation of tractor-trailers, forklifts, and related heavy equipment. This course will allow students to reinforce, apply, and transfer their academic knowledge and skills to management of transportation systems and associated careers.

**Grade Placement: 9-12**

**1 credit**

**Practicum in Distribution and Logistics (PRACDLG1)\***

**Advanced CTE Course (Limited seating available)**

Practicum in Distribution and Logistics 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 based or work based.

**Grade Placement: 12**

**2 credits**

## HIGH SCHOOL COURSES AVAILABLE FOR 8<sup>TH</sup> GRADE

The following high school courses may be taken in 8<sup>th</sup> grade for high school credit.

**Algebra I**

Algebra I is the branch of mathematics characterized by the use of variables (letters used to represent numbers) and operations with variables. Students use a variety of representations (concrete, pictorial,

numerical, symbolic, graphical, and verbal), tools, and technology (including calculators with graphing capabilities) to model mathematical situations and solve meaningful problems.

**1 credit**

### **Art I**

A prerequisite for all other art courses, Art I offers experiences in various art processes, structures, theories, and historical developments. Activities include drawing, painting, printmaking, sculpture, mixed media, design and cultural arts.

**1 credit**

### **Digital Art and Animation**

Digital Art and Animation consists of computer images and animations created with digital imaging software. Digital Art and Animation has applications in many careers, including graphic design, advertising, web design, animation, corporate communications, illustration, character development, script writing, storyboarding, directing, producing, inking, project management, editing, and the magazine, television, film, and game industries. Students in this course will produce various real-world projects and animations.

**Grade Placement: 9-12**

**1 credit**

**Prerequisite: Art I (recommended)**

### **Principles of Arts, Audio/Video Technology, and Communications (PRINAAVTC)**

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 communications. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.

**Grade Placement: 9**

**1 credit**

### **Digital Design and Media Production**

This course includes critical thinking, design approaches, the underlying theories, and a variety of digital media production techniques. Skills include digital graphics, audio, video, production and layouts.

**Grade Placement: 9-12**

**1 credit**

### **Principles of Applied Engineering (PRAPPENG)**

Principles of Applied Engineering provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will have an understanding of the various fields of engineering and will be able to make informed career decisions. Further, students will have worked on a design team to develop a product or system. Students will use multiple software applications to prepare and present course assignments.

**1 credit**

### **Principles of Human Services (PRINHUSR)**

This laboratory course will enable students to investigate careers in the human services career cluster, including counseling and mental health, early childhood development, family and community, and personal care services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers.

**1 credit**

**Spanish I**

This introductory course enables the student to learn Spanish pronunciation, to acquire a vocabulary sufficient for simple conversations, to practice basic structure patterns, and to become aware of Spanish culture.

**1 credit**

**Spanish II**

This course continues emphasis in oral comprehension, improvement of reading skills, identification of basic grammar patterns in written/spoken materials, and an examination of culture.

**Prerequisite: Spanish I**

**1 credit**

**Touch System Data Entry (TSDATAE)**

In Touch System Data Entry, students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students will need to apply touch system data entry for production of business documents.

**½ credit**

**Video Game Design (VIDGD)**

Video Game Design allows students to explore one of the largest industries in the global marketplace and the new emerging careers it provides in the field of technology. Students will learn gaming, computerized gaming, evolution of gaming, artistic aspects of perspective, design, animation, technical concepts of collision theory, and programming logic. Students will participate in a simulation of a real video game design team while developing technical proficiency in constructing an original game design.

**Grade Placement: 9-12**

**1 credit**

**College and Career Readiness (CCR)**

College and Career Readiness (CCR) will give students a half credit for Professional Communications. Students in CCR will learn information and skills to help them transition to high school such as reading a transcript, understanding credits, and learning about the different graduation endorsements. The class blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research.

**½ credit**