Galena Park Independent School District prohibits discrimination, including harassment, against any student on the basis of race, color, religion, sex, gender, national origin, disability, age, or any other basis prohibited by law. The District prohibits dating violence, as defined by this policy. Retaliation against anyone involved in the complaint process is a violation of District policy and is prohibited.

For further information about this policy, contact Mike McKay, Executive Director for Human Resource Services at 832-386-1207, or Jerid Link, Executive Director for Human Resource Services - Compliance and Hearing 832-386-1241. Relay # for TDD (Telecommunications Device for the Deaf) with TTY call 711 or 1-800-735-2989 without TTY call 711 or 1-800-735-2988.
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<td>59-60</td>
</tr>
<tr>
<td>Transportation, Distribution, and Logistics Cluster</td>
<td>60-62</td>
</tr>
</tbody>
</table>

Revised Spring 2018
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.
**Students can choose from 5 endorsement areas**

**Science, Technology, Engineering and Mathematics (STEM)**
- Career and Technical Education (CTE) courses related to STEM
- Mathematics
- 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.*
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. 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 24 hours (8 college classes) of transferable credits. Courses cost $50 each, if students are eligible for the dual credit scholarship program. Textbooks and transportation are provided. Student may take additional courses at their own expense.

Modified Early College Academy (MECA)

Students must have completed Algebra II Pre AP in 10th 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 part-time high school students. Students can take courses towards an Associate Degree (approximately 60 college hours or 20 college classes). Students are required to attend classes during the summer. Students will pay GPISD $100 for two classes and the books will be provided for those classes. Students will pay the remaining tuition and books directly to San Jacinto College for the other two classes. Transportation is provided to and from San Jacinto College.

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, Diesel Technology, Medical Assisting, Maritime & Logistics, Welding Technology and Emergency Medical Technician. Students must be a junior to be eligible to earn a certificate. These courses are FREE for students enrolled in Galena Park ISD. Classes are held Monday – Friday between 12:00 – 3:00(4:00).

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 Reading STAAR exam in the 8th grade to be eligible. Students must have good attendance and excellent discipline.

For additional information contact:
NSSH – Heidie Hegman-Hardin
hhegman@galenaparkisd.com
832-386-4309

GPHS – Brandi Couch
bcouch@galenaparkisd.com
832-386-2837

Galena Park ISD
Course Guide
The Foundation High School Program & Endorsement Overview

The following requirements apply to students entering the 9th grade beginning in the 2014-2015 school year.

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

<table>
<thead>
<tr>
<th>COURSE</th>
<th>COURSE REQUIREMENTS</th>
<th>REQUIRED CREDITS</th>
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</thead>
<tbody>
<tr>
<td>MATHEMATICS</td>
<td>Additional math course</td>
<td>1</td>
</tr>
<tr>
<td>SCIENCE</td>
<td>Additional science course</td>
<td>1</td>
</tr>
<tr>
<td>ADDITIONAL ELECTIVES</td>
<td>Electives must be chosen from one of the five endorsements</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL CREDITS: FHSP + ENDORSEMENTS</td>
<td></td>
<td>26</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ENDORSEMENTS</th>
<th>RECOGNITIONS</th>
<th>STATE ASSESSMENT PERFORMANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEM, PUBLIC SERVICE, BUSINESS &amp; INDUSTRY, ARTS &amp; HUMANITIES, MULTIDISCIPLINARY STUDIES</td>
<td>Students have the opportunity to earn additional recognitions in the following areas.</td>
<td>In addition to the credit requirements as listed above, students must meet passing standards on the following End-of-Course Exams:</td>
</tr>
<tr>
<td></td>
<td>PERFORMANCE ACKNOWLEDGEMENTS:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• AP test score of 3 or higher or IB score of 4 or higher</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Bilingualism and biliteracy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Dual credit (12 hours with 3.0 or higher)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• High performance on PSAT, SAT or ACT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Earning a business and industry certification or license</td>
<td></td>
</tr>
<tr>
<td></td>
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</tr>
</tbody>
</table>

**DISTINGUISHED LEVEL OF ACHIEVEMENT:**
Completion of four math credits including Algebra II, four science credits and requirements for at least one endorsement.

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

Name: __________________________ DOB: _________ Entered HS: ________ Graduation Year: __________

### STUDENT ASSESSMENT INFORMATION

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

### PERFORMANCE ACKNOWLEDGEMENTS

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual Credit</td>
<td>Bilingualism</td>
<td>AP/IB Exams</td>
<td>College Testing</td>
<td>Certification</td>
</tr>
<tr>
<td>___ 12 DC hours (3.0 or higher GPA)</td>
<td>___ Complete all ELA requirements with 80 or higher grade average AND Satisfy one of the following:</td>
<td>___ AP Exam score of 3 or higher</td>
<td>___ ACT Composite of 28</td>
<td>___ Obtain nationally or internationally recognized business or industry certification from TEA approved list.</td>
</tr>
<tr>
<td>___ Earn an associate degree</td>
<td></td>
<td>___ IB Exam score of 4 or higher</td>
<td>___ SAT Combined score of 1250</td>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

### ACCELERATION/REMEDIATION ACTIVITIES

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<th>Year</th>
<th>Year</th>
<th>Year</th>
<th>Year</th>
</tr>
</thead>
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<tr>
<td>Summer School</td>
<td></td>
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<td>Tutorials</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Attendance/Discipline Monitoring</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Other Activities:

_____________________________________________________

_____________________________________________________

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.

________________________________    __________
Signature of Student      Date

________________________________    __________
Signature of Parent     Date

________________________________    __________
Signature of Counselor     Date
# Required Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Course</th>
<th>Course</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>English I</td>
<td>Algebra I</td>
<td>Biology</td>
<td>World Geo/ World Hist/ Human Geo AP</td>
</tr>
<tr>
<td>English II</td>
<td>Geometry</td>
<td>IPC/Chemistry</td>
<td>US History</td>
</tr>
<tr>
<td>English III</td>
<td>Algebra II or Other</td>
<td>Physics or Other</td>
<td>Government</td>
</tr>
<tr>
<td>English IV or Other</td>
<td>Fourth Math</td>
<td>Fourth Science</td>
<td>Economics</td>
</tr>
</tbody>
</table>

## Other Required Courses

**Fine Art**
- **LOTE I**
- **LOTE II**
- PE

All required courses are Complete (C) or In Progress (IP)
- Yes
- No

## STEM Endorsement – Must have Algebra II, Chemistry and Physics

**Option A (CTE)**
- Engineering/Robotics/Electronics
  - 4 CTE credits _____
  - 2 Same Cluster _____
  - 1 Advanced _____

**Option B**
- Computer Science
  - 4 CS credits _____

**Option C**
- Two math credits with Algebra II as prerequisite
  - 5th math credit _____

**Option D**
- Two science credits beyond Physics
  - 5th science credit _____

**Option E** (Combination from two)
- Option A, B, or C
  - 3 credits _____

## Business & Industry

**Option A (CTE)**
- Ag/Architecture/Finance/AV Marketing/Business/Manufacturing Hospitality/IT
  - 4 CTE credits _____
  - 2 Same cluster _____
  - 1 Advanced _____

**Option B**
- English Electives: Journalism/Newspaper Debate/Yearbook Public Speaking
  - 4 credits _____
  - 3 Levels from one area _____

**Option C (CTE)**
- Technology: Digital: Design/Art/Comm/Video Web Design/3-D Modeling/Web Game
  - 4 Technology credits _____

**Option D (CTE)** (Combination of 4 credits from A,B or C in a coherent sequence)
  - 4 credits _____

## Public Services

**Option A (CTE)**
- Education/Government/Public Administration/Health Science/Human Services/Law/Public Safety
  - 4 CTE credits _____
  - 2 Same cluster _____
  - 1 Advanced _____

**Option B**
- JROTC
  - 4 Credits in JROTC _____

## Arts and Humanities

**Option A**
- Social Studies (5 credits)
  - 2 SS credits _____

**Option B & D**
- LOTE / Sign Language (4 credits)
  - Level III/IV _____

**Option C**
- LOTE Combo (4 credits)
  - 2 Levels Alt LOTE _____

**Option E**
- Fine Arts from one or two areas (4 credits)
  - 3 FA credits _____

**Option F**
- English Electives (4 credits)
  - 3 English credits _____

## Multidisciplinary

**Option A (CTE)**
- Workforce/Post-Secondary Education: CTE/Intense Algebra
  - 4 credits (advanced) _____

**Option B**
- 4X4 (English, math, science, SS)
  - Must have English IV, Chemistry or Physics and 4th SS
  - English IV/ Chemistry or Physics/ 4th SS _____

**Option C**
- AP/Dual Credit: ELA/Math/Science/SS/LOTE/FA
  - 4 credits: AP or DC _____

---

**Transcript reflects 26 credits or more**
- Yes
- No
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:
   Science, including environmental science
   Technology, including computer science
   Engineering
   Advanced mathematics

☐ Business and Industry will include courses directly related to:
   Database management
   Information technology
   Communications
   Accounting
   Finance
   Marketing
   Graphic design
   Architecture
   Construction
   Welding
   Logistics
   Automotive technology
   Agriculture science
   Heating, ventilation, and air condition

☐ Arts and Humanities will include courses directly related to:
   Fine Arts
   Political Science
   World Languages
   Cultural Studies
   English Literature
   History

☐ Public Service will include courses directly related to:
   Health science and occupations
   Education and training
   Law enforcement
   Culinary arts and hospitality

☐ 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

<table>
<thead>
<tr>
<th>Numerical Grade</th>
<th>Advanced Placement Courses</th>
<th>Core Dual Credit Courses</th>
<th>Pre-AP/Advanced Courses</th>
<th>Academic Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>6</td>
<td>5.75</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>99</td>
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A complete list of Advanced Placement, Pre-AP, and Advanced courses shall be published in the course guide. Dual credit courses that receive the additional weighted GPA shall be in the core areas of English, mathematics, science, and social studies.

**EIC LOCAL**

* Eligible Pre-AP courses and other courses locally designated as advanced courses in the course guide shall be categorized and weighted as Pre-AP/Honors courses.
This section of the planning guide contains descriptions of all courses offered in grades nine through twelve in Galena Park I.S.D. 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
- Pre-AP/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 language, vocabulary, composition, use of the library, 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 Pre-AP**
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 language, 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

Prerequisite: Language Proficiency Assessment Committee (LPAC) Approval

**English II Pre-AP**
Stretching students’ reading, writing, listening, speaking, and thinking skills, this in-depth study of world 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 American 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 rhetorical, 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**

**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

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**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

**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.
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.

*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
- Pre-AP/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 calculators 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
Prerequisite: Algebra I

Geometry Pre-AP
This course is an intensified study of the concepts presented in Geometry.
Grade Placement: 9 1 credit
Prerequisite: Algebra I

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 1 credit
Prerequisite: Algebra I
Highly recommended if attending a 4 year college/university

Algebra II Pre-AP
This course is an intensified study of the concepts presented in Algebra II.
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
Prerequisite: Pre-AP 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

Pre-Calculus Pre-AP
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.

Grade Placement: 11-12 1 credit
Prerequisite: Algebra II
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

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

Maximum Grade Points earned for:
- Academic Courses – 4 points
- Pre-AP/Advanced Courses – 5 points
- Core Dual Credit Courses – 5.75 points
- Advanced Placement Courses – 6 points
- Locally designated Advanced Courses for weighted GPA

SCIENCE
**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 Pre-AP**
Biology Pre AP 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 Molecules and Cells (25%), Heredity and Evolution (25%), and Organisms and Populations (50%). 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 - 1 ½ credit*

*Prerequisites: Biology or Biology Pre AP and Chemistry or Chemistry Pre AP.*

**AP Biology C (Test Prep)**
This semester course is designed to provide additional support for students who plan to take the AP Science test in the spring. Topics include practice writing for the AP free response test questions, test taking strategies for the multiple choice portion and specific content units that will not be covered in semester A or B of the course. This course can be taken in the fall or the spring. This course is optional but highly recommended for any student taking the AP test.

**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*

*Highly recommended if attending a 4 year college/university*
Chemistry Pre-AP
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 I and Algebra
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. The topics studied and the problem solving skills required for this course are similar to any first year college chemistry course. 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 enriched through a comprehensive laboratory program.
Grade Placement: 11-12 1 - 1 ½ credit
Prerequisite: Chemistry or Pre AP Chemistry and 80% or higher in Algebra I

AP Chemistry C (Test Prep)
This semester course is designed to provide additional support for students who plan to take the AP Science test in the spring. Topics include practice writing for the AP free response test questions, test taking strategies for the multiple choice portion and specific content units that will not be covered in semester A or B of the course. This course can be taken in the fall or the spring. This course is optional but highly recommended for any student taking the AP test.

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 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 - 1 ½ credit
Prerequisites: Algebra I, Geometry

AP Physics I C (Test Prep)
This semester course is designed to provide additional support for students who plan to take the AP Science test in the spring. Topics include practice writing for the AP free response test questions, test taking strategies for the multiple choice portion and specific content units that will not be covered in semester A or B of the course. This course can be taken in the fall or the spring. This course is optional but highly recommended for any student taking the AP test.
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 11-12 1/2 credit
Prerequisites: Physics I AP, Algebra II and concurrent enrollment in Pre-Calculus

AP Physics II C (Test Prep)
This semester course is designed to provide additional support for students who plan to take the AP Science test in the spring. Topics include practice writing for the AP free response test questions, test taking strategies for the multiple choice portion and specific content units that will not be covered in semester A or B of the course. This course can be taken in the fall or the spring. This course is optional but highly recommended for any student taking the AP test.

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

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: 9-11 1 credit

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 1 additional Science class

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: Completed Biology, Chemistry, and Algebra I

SOCIAL STUDIES

Maximum Grade Points earned for:

- Academic Courses   – 4 points
- Pre-AP/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:  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

**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: 12**  
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: 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: 12**  
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: 11-12**  
up to 3 hrs. /¼ 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: 11-12**  
up to 3 hrs. /¼ 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

**Cultural and Linguistic Topics**

This course introduces students to the study of other cultures. Students gain knowledge to understand the historical development, geographical aspects, cultural aspects, and/or linguistic aspects of selected regions or countries by completing one or more of the knowledge and skills for cultural and linguistic topics.

Grade Placement: 10-12

½ - 1 Elective Credit

**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: 11-12

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: 10-12

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: 11-12

½ credit

**Special Topics in Social Studies**

Students are provided the opportunity to apply knowledge and skills of the social sciences to a variety of topics and issues. Students will use critical thinking skills to locate, organize, analyze and use data collected from a variety of sources. Problem solving and decision making are important in this course as well as communicating information in written, oral and visual formats.

Grade Placement: 11-12

½ credit
Special Topics in Social Studies Pre-AP/ 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 Pre-AP 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 Americans in U.S. History  
This course is designed to present and allow students to investigate the history and culture of 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-Sports History  
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’s Studies  
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
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: Hebrew Scripture (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: 10-12 ½ credit

Special Topics in Social Studies: Hebrew Scripture (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: 10-12 ½ credit

PHYSICAL EDUCATION

Maximum Grade Points earned for:
- Academic Courses – 4 points
- Pre-AP/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.

Foundations of Personal Fitness
This semester course will teach students about personal health and fitness issues.
Grade Placement: 9-10  ½ - 1 credit

P. E. Aerobic Activities
In Aerobic classes the students will learn health and fitness concepts and the effects of exercise on the body and lifelong fitness activities.

Physical Education Individual Sports
This class emphasizes doing activities individually instead of with teams. Such as running, tennis, golf, weight lifting, badminton and table tennis.

Physical Education Team Sports
This class emphasizes doing activities in groups rather than individually. Such as flag football, basketball, volleyball, softball and floor hockey.

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
- Cheerleading

HEALTH EDUCATION

Health Education
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 Advanced
This course, a study of the prevention and care of athletic injuries, emphasizes the techniques of recognizing, evaluating, and treating athletic injuries. It will include credits in taping and wrapping, rehabilitation, and basic 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
- Pre-AP/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

French IV AP
This course, conducted primarily in French, exceeds the regular level fourth year course in French by including reading from French classics and modern French publications as well as advanced writing assignments and broader study of French culture.

Grade Placement: 11-12  1 credit
Prerequisites: French III and specific requirements.
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: 9 - 12 1 credit

Spanish for Native Speakers
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: 9 - 12 2 credits
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 Pre AP
This course exceeds the traditional survey course is 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
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
- Pre-AP/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

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**FINE ARTS**

**Maximum Grade Points earned for:**
- **Academic Courses** – 4 points
- **Pre-AP/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 Ceramics**
This course focuses on the design and development of original art works in ceramics.

**Grade Placement:** 11-12  
½ credit/Local 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.

Grade Placement: 9-12 1 credit

Art I Pre-AP
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. In Middle School, the course consists of in depth studies of the various disciplines covered in Art I as well as advanced drawing, two and three dimensional designs. 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 II Pre-AP
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. In Middle School, the course consists of in depth studies of the various disciplines covered in Art I as well as advanced drawing, two and three dimensional designs. Upon successful completion of this course, a student can advance to AP Drawing, AP 2-D Design or AP 3-D Design.

Grade Placement: 10 - 11 1 credit
Prerequisite: Meet Specific Requirements.

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
Prerequisite: 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 Pre AP.

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 Pre AP, 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. 9th – 12th 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 drill 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 Drill 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 Pre-AP**

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 Pre AP 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
Prerequisite: Theater Arts I 1 credit

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

Principles and Elements of 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. Students have the opportunity to earn the Benz Floral Certification.

Grade Placement: 9-12 Credit: 1

Maximum Grade Points earned for:
- Academic Courses – 4 points
- Pre-AP/Advanced Courses – 5 points

ELECTIVES
- Core Dual Credit Courses – 5.75 points
- Advanced Placement Courses – 6 points
- Locally designated Advanced Courses for weighted GPA

**ROTC I**
- AS 100: Journey into Aviation History--Focuses on the development of flight throughout the centuries from ancient civilizations to modern day aviation
- LE 100: Citizenship, Character and Air Force Tradition--Introduces students to the Air Force Junior Reserve Officer Training Corps (AFJROTC) program providing a basis for progression through the rest of the AFJROTC program while instilling elements of good citizenship.
- LE 500: Drill and Ceremonies--Provides an in-depth introduction to drill and ceremonies.
- Cadet Wellness Program--Focuses on developing and maintaining a lifelong healthy lifestyle through exercise, nutrition and positive choices.

**ROTC II**

**ROTC III**
- Must have completed ROTC I and/or ROTC II
- AS 200: The Science of Flight--Introductory course that focuses on how airplanes fly, how weather conditions affect flight, flight and the human body and flight navigation
- LE 200: Communication, Awareness and Leadership--Teaches communications skills with emphasis on communicating effectively, understanding groups and teams, preparing for leadership, solving conflicts and problems, and personal development.
- LE 500: Drill and Ceremonies--Provides an in-depth introduction to drill and ceremonies.
- Cadet Wellness Program--Focuses on developing and maintaining a lifelong healthy lifestyle through exercise, nutrition and positive choices.

**ROTC IV**
- Must be a senior and have completed ROTC I
- AS 400: Management of the Cadet Corps--Hands-on experience which puts previous leadership courses into practice. Students will plan, organize, coordinate, direct, control and make decisions to run the entire ROTC unit.
- LE 400: Principals of Management--Exposes students to the fundamentals of management as well as basic leadership topics.
- LE 500: Drill and Ceremonies--Provides an in-depth introduction to drill and ceremonies.
- Cadet Wellness Program--Focuses on developing and maintaining a lifelong healthy lifestyle through exercise, nutrition and positive choices.

**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

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<th>Technology Application Courses</th>
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Maximum Grade Points earned for:
- Academic Courses – 4 points
- Pre-AP/Advanced Courses – 5 points
- Core Dual Credit Courses – 5.75 points
- Advanced Placement Courses – 6 points
* Locally designated Advanced Courses for weighted GPA

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 (ACE only) 1 credit
Prerequisite: Art, Level I (recommended)

Digital Video and Audio Design
Digital Video and Audio Design will consist of applying academic knowledge and skills to audio and video projects. The student develops a basic understanding of the history, current practice, future trends, and procedural protocols in the use of audio and video production. The student will also have a greater understanding of professional communication strategies and the pre-production process.
Grade Placement: 9-12 (ACE only) 1 credit

Advanced Placement Computer Science
This is a first-year college level course using JAVA. Students develop the kind of knowledge required to produce professional computer software. This course prepares the student for the Computer Science AP Exam. The course is ideal for students who plan to attend a 4-year university majoring in Science, Technology, Engineering & Math (STEM).
Grade Placement: 11-12 (NSSH only) 1 credit
**Pre-AP Computer Science 1**
This course will foster students’ creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. 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 (NSSH only) 1 credit*

*Prerequisite: Algebra 1*

**Digital Communications in the 21st Century**
Digital Communications in the 21st Century provides students fundamental skills necessary for college including technology terminology, concepts, and strategies. This introductory technology course will provide students a survey of essential technology skills including digital typography standards, design and layout principles, digital photography and editing, videography techniques, and the deployment of digital media for print, web, and video use.

*Grade Placement: 9-12 (GPHS only) 1 credit*

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**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
- **Pre-AP/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)**
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  
**Credits:** 2 or 3  
**Prerequisite:** CTE Application Required. 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  
**Credits:** 1

**Livestock Production (LIVEPROD)**  
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  
**Credits:** 1

**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  
**Credits:** ½

**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  
**Credits:** ½

**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:** 9-12  
**Credits:** 1

**Floral Design (FLORAL)**
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. Students have the opportunity to earn Benz Floral Certification.

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

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

**Advanced CTE Course (Advanced Floral Design)**
The practicum is designed to enhance student’s practical application of knowledge and skills learned in Floral Design. Gives the student the opportunity to develop advanced skills and ability to demonstrate the techniques related to floral design.

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

**Prerequisite:** Floral Design and additional Agriculture, Food and Natural Resources course

**Landscape Design and Management (LNDMGT)**
Landscape Design and Management is designed to develop an understanding of landscape design and management techniques and practices. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems.

**Grade Placement:** 10-12  
**Credits:** .5

**Turf Grass Management (TGMGT)**
Turf Grass Management is designed to develop an understanding of turf grass management techniques and practices. To prepare for careers in sports turf field, such as football, baseball and golf just to name a few.

**Grade Placement:** 10-12  
**Credits:** .5
**Greenhouse Operations (GREOP)**
Greenhouse Operation and Production is designed to develop an understanding of greenhouse production techniques and practices. To prepare for careers in horticultural systems.
**Grade Placement:** 10-12 **Credits:** 1

**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 **Credits:** 1

**Principles of Construction (PRINCON)**
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 **Credits:** 1

**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 **Credits:** 1
**Prerequisites:** Algebra I and English I
**Interior Design II (INTERDS2)**

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  
**Credits:** 2  
**Prerequisites:** English II, Geometry, and Interior Design I

**Practicum in Interior Design (PRACIDS1)**

**Advanced CTE Course**

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  
**Credits:** 2  
**Prerequisites:** 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  
**Credits:** 1  
**Prerequisites:** Algebra I and English I

**Architectural Design II (ARCHDSN2)**

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  
**Credits:** 2  
**Prerequisite:** Architectural Design I or Advanced Interior Design and Geometry

**Practicum in Architectural Design (PRACADS1)**

**Advanced CTE Course**

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  
**Credits:** 2  
**Prerequisite:** Architectural Design II
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

Credits: 1

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

Credits: 1

Prerequisite: Art 1 or Principles of Arts, Audio/Video Technology and Communications

Animation II (ANIMAT2) *
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

Credits: 1

Prerequisite: Animation I

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

Credits: 1

Prerequisite: Principles of Arts, Audio/Video Technology and Communications

Audio/Video Production II (AVPROD2) *
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: 11-12  
Prerequisite: Audio/Video Production I

Practicum in Audio/Video Production (PRACAVP1/PRACAVP2) Extended

Advanced CTE Course
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  
Prerequisite: Audio/Video Production II.

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  
Prerequisite: Principles of Arts, Audio/Video Technology and Communications

Graphic Design and Illustration II (GRADHI2)

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  
Prerequisites: Graphic Design and Illustration I

Practicum in Graphic Design and Illustration (PRACGRD1/PRACGRD2)

Advanced CTE Course
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: 12
Credits: 2

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
Credits: 1

**Commercial Photography II (CPHOTO2)***

**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
Credits: 1

Prerequisite: Commercial Photography I

**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
Credits: 1

Prerequisite: Principles of Arts, Audio/Video Technology and Communications

**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: 11-12
Credits: 1

Prerequisite: Fashion Design I

**Practicum in Fashion Design (PRACFAS1/PRACFAS2)***

**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 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: 12
Credits: 2

Galena Park ISD
Course Guide
### 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:** 9-12  
**Credits:** ½

**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  
**Credits:** 1  
**Prerequisite:** Principles of Arts, Audio/Video Technology and Communications

**Digital Audio Technology II (DATECH2)**

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:** 11-12  
**Credits:** 1  
**Prerequisite:** Digital Audio Technology I

**Printing and Imaging Technology I (PRIMTEC1)**

Careers in printing span all aspects of the industry, including prepress, press, and finishing and bindery operations. In addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the printing industry with a focus on digital prepress and digital publishing.

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

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**BUSINESS MANAGEMENT AND ADMINISTRATION CLUSTER**

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**Business and Industry Endorsement**

**Principles of Business, Marketing, and Finance (PRINBMF)**

In Principles of Business, Marketing, and Finance (PRINBMF), 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  Credits: 1

**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.

**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.

**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.

**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 will count as a fourth English credit for students on minimum plan.

**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.

**Global Business (GLOBBUS)**
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.
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  
Credits: ½

Practicum in Business Management (PRACBM/PRACBM2)
Advanced CTE Course
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  
Credits: 2-3
Prerequisite: CTE Application required. 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  
Credits: 1

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: 10-12  
Credits: 1

Instructional Practices (INPRAC)
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

Credits: 2

**Practicum in Education and Training (PRACEDTR1/PRACEDT2)**

**Advanced CTE Course**

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: 11-12

Credits: 2

Prerequisites: Instructional Practices and specific requirements.

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**FINANCE CLUSTER**

**Business and Industry Endorsement**

**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

Credits: 1

**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

Credits: ½

**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.
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: 10-12  
Credits: 1

Prerequisite: Accounting I and Money Matters or Banking and Financial Services

Statistics and Business Decision Making (STATBDM)  
Statistics and Business Decision Making is an introduction to statistics and the application of statistics to business decision making. Students will use statistics to make business decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid. This course satisfies a high school mathematics graduation requirement.

Grade Placement: 11-12  
Credits: 1

Prerequisite: Algebra II

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  
Credits: 1

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: 9-12  
Credits: 1

Health Science Theory (HLTHSCI)  
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: 10-12  
Credits: 1

Prerequisite: Principles of Health Science and Biology

Health Science Clinical  
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.

**Health Informatics (HLTHINF) Medical and Billing Coding**

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).

**Medical Microbiology (MICRO)**

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.

**Practicum in Health Science I – Dental Assisting (PRACHLSC)**

Advanced CTE Course

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.

**Practicum in Health Science II (PRACHLSC2) Pharmacy Tech**

Advanced CTE Course

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.
Prerequisites: Medical Terminology, Principles of Health Science, Anatomy and Physiology, and Algebra I & II, and specific requirements.

**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:** 10-12  
**Credits:** 1  
**Prerequisite:** Biology and a second science credit.

**Health Science Career Preparation**

**Health Science Career Preparation**

This course offers on-the-job training in a health-related field for students. The course includes classroom instruction with 20-25 hours per week of supervised work experience in an approved medical career.

**Grade Placement:** 11-12  
**Credits:** 2-3  
**Prerequisites:** Specific requirements. The student must be 16 years of age with valid work documentation and have personal transportation.

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**HOSPITALITY AND TOURISM CLUSTER**

**Business and Industry Endorsement**

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

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

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

**Practicum in Hospitality Services - Hotel Management (PRACHOS1)**

Practicum in Hospitality Services is a unique practicum experience to provide opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Students are taught employability skills, including job-specific skills applicable to their training plan, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Possible employment during summer and after high-school graduation.

Students must provide black dress pants, closed toe, non-slip shoes and black belt. The district/hotel training site will provide shirt and name badge.

**Grade Placement:** 11-12  
**Credits:** 2  
**Prerequisites:** Principles of Hospitality and Tourism
Introduction to Culinary Arts (INCUART)
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               Credits: 1

Culinary Arts (CULARTS)
This laboratory-based course begins with the fundamentals and principles of the art of food preparation and includes management and production skills and techniques. Students can pursue a national sanitation certification and other appropriate industry certifications. The knowledge and skills required for careers in the restaurant, food, and beverage industry are practiced as food is prepared for a campus based restaurant. Students have the opportunity to earn the Serve Safe Certification. Also students have the opportunity to earn Food Handler Certification.

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

Advanced Culinary Arts (ADCUART)
This laboratory-based course begins with the fundamentals and principles of the art of food preparation and includes management and production skills and techniques. Students can pursue a national sanitation certification and other appropriate industry certifications. The knowledge and skills required for careers in the restaurant, food, and beverage industry are practiced as food is prepared for a campus based restaurant. Students have the opportunity to earn the Serve Safe Certification.

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

Practicum in Culinary Arts (PRACCU1/PRACCU2)※
Advanced CTE Course
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 have the opportunity to earn Pro-Start Certification from the Texas Restaurant Association.

Grade Placement: 11-12               Credits: 2
Prerequisite: Advanced 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.
Dollars and Sense (DOLLARSE)
This course focuses on consumer practices and responsibilities, the money management process, decision-making skills, impact of technology, and preparation for human services careers. Students are encouraged to participate in career and technical student organizations and other leadership organizations.

Grade Placement: 11-12  
Credits: ½

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: 9-12  
Credits: ½

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: 9-12  
Credits: ½

Practicum in Human Services (PRACHUS1/PRACHUS2) Lifetime Nutrition & Wellness
Advanced CTE Course
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  
Credits: 2
Prerequisites: Lifetime Nutrition and Wellness

Introduction to Cosmetology (INTCOSMO)
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  
Credits: 1
Prerequisites: Meet specific requirements. To be taken concurrently with Cosmetology I. CTE Approval

Cosmetology I (COSMET1)
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  
**Credits:** 2  
**Prerequisite:** Meet specific requirements.  
**CTE Approval**

**Advanced CTE Course**

**Cosmetology II (COSMET2) with Practicum in Human Service (taken concurrently)**

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  
**Credits:** 2  
**Prerequisites:** Meet specific requirements. Cosmetology I and Introduction to Cosmetology I, CTE Approval, 480 hours in Cosmetology I

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**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  
**Credits:** 1

**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  
**Credits:** 1  
**Prerequisites:** Principles of Information Technology

**Computer Technician Practicum (COMPT1/COMPT2)**

**Advanced CTE Course**

In the Computer Technician Practicum, students will gain knowledge and skills in the area of computer technologies, including advanced knowledge of electrical and electronic theory, computer principles, and components related to the installation, diagnosis, service, and repair of computer-based technology systems. Students will reinforce, apply, and transfer their knowledge and skills to a variety of settings and problems. 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 instructor, with an industry
mentor, or both. Students have the opportunity to earn the A+ certification upon completion of course.

Grade Placement: 10-12  
Credits: 2  
Prerequisites: Computer Maintenance, BIM I

Digital Media (DIMEDIA)
Through the study of digital media and its application in information technology, students will analyze and
assess current and emerging technologies, while designing and creating multimedia projects that
address customer needs and resolve a problem. Students implement personal and interpersonal skills to
prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced
will enable students to successfully perform and interact in a technology-driven society. Students
enhance reading, writing, computing, communication, and critical thinking skills and apply them to the
information technology environment.

Grade Placement: 9-12  
Credits: 1  
Prerequisites: BIM I

Web Technologies (WEBTECH)
In Web Technologies, students will learn to make informed decisions and apply the decisions to the field of
IT. Students will implement personal and interpersonal skills to prepare for a rapidly evolving
workplace environment. The knowledge and skills acquired and practiced will enable students to
successfully perform and interact in a technology-driven society. Students will enhance reading,
writing, computing, communication, and critical thinking and apply them to the IT environment.

Grade Placement: 10-12  
Credits: 1  
Prerequisites: BIM I

LAW, PUBLIC SAFETY, CORRECTIONS, AND SECURITY 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  
Credits: 1

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  
Credits: 1  
Prerequisites: Principles of Law, Public Safety, Corrections, and Security

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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
Prerequisites: Law Enforcement I

Credits: 1

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. Students will learn terminology and procedures related to the search and examination of physical evidence in criminal cases as they are performed in a typical crime laboratory. 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
Prerequisites: Biology and Chemistry

Credits: 1

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
Prerequisites: Principles of Law, Public Safety, Corrections, and Security

Credits: 1

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
Prerequisites: Law Enforcement I

Credits: 1

Correctional Services (CORRSRVS)
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

Credits: 1
Prerequisites: Principles of Law, Public Safety, Corrections, and Security

Practicum in Law, Public Safety, Corrections, and Security (PRACLPS1/PRACLPS2)★
Advanced CTE Course
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, Public Safety, Corrections, and Security 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:  12
Credits: 2
Prerequisites: Law Enforcement II

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:  9-12
Credits: 1

Welding I (WELD1)
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
Credits: 2

Welding II (WELD2)★
Advanced CTE Course
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
Credits: 2
Prerequisites: Welding I
**Metal Fabrication and Machining I (MTFBMCH1)**
Metal Fabrication and Machining I provides the knowledge, skills, and certifications required for equal employment opportunities in the metal production industry. Students must have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Students have the opportunity to earn an AWS D1.1 Certification and NCCER Certifications, also OSHA 500 Safety Certification.

*Grade Placement: 10-12  Credits: 2*

**Metal Fabrication and Machining II (MTFBMCH2)**
*Advanced CTE Course*
Metal Fabrication and Machining II builds on the knowledge, skills, and certifications students acquire in Metal Fabrication and Machining I. Students will develop advanced concepts and skills as related 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 have the opportunity to earn the AWS-SENSE certification, NCCER Certification, also OSHA 500 Safety Certification.

*Grade Placement: 11-12  Credits: 2*

*Prerequisites: Metal Fabrication and Machining I*

**Practicum in Manufacturing (PRACMAN1)**
*Advanced CTE Course*
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 locations appropriate to the nature and level of experience. Must have appropriate work documentation.

*Grade Placement: 11-12  Credits: 2-3*

*Prerequisites: Welding I or Metal Fabrication and Machining I*

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**MARKETING CLUSTER**

*Business and Industry Endorsement*

**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  Credits: 1*

**Sports and Entertainment Marketing (SPORTSEM)**
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.
Social Media Marketing (SMEDMKTG)
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.

Practicum in Marketing (PRACMKT1/PRACMKT2)★
Advanced CTE Course
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.

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.

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.
Robotics II (ROBOTIC2)*
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  Credits: 1
Prerequisite: Robotics I

Engineering Design and Presentation I (ENGDSPR1)
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  Credits: 1
Prerequisite: Algebra I, Principles of Applied Engineering, Geometry

Engineering Design and Presentation II (ENGDSPR2)*
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  Credits: 2
Prerequisite: Engineering Design and Presentation I, Algebra I, and Geometry

Practicum in Science, Technology, Engineering, and Mathematics (PRCSTEM1/PRCSTEM2)*
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: 12  Credits: 2
Prerequisite: Robotics II or Engineering Design and Presentation II, Algebra I and Geometry

TRANSPORTATION, DISTRIBUTION, AND LOGISTICS CLUSTER

Business and Industry Endorsement

Principles of Transportation Systems (PRINTRSY) (Auto Tech or Maritime)
In Principles of Transportation Systems, students will gain knowledge and skills in the safe application, design, production, and assessment of products, services, and systems. This knowledge includes the history, laws and regulations, and common practices used in the transportation industry. Students should apply knowledge and skills in the application, design, and production of technology as it relates
to the transportation industries. This course allows students to reinforce, apply, and transfer their academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings.

Grade Placement: 9-12  
Credits: 1

**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  
Credits: 1

**Automotive Technology I: Maintenance and Light Repair (AUTOTEC1)**
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: 10-12  
Credits: 2
Prerequisites: Automotive Basics or Principles of Transportation Systems

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

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  
Credits: 2
Prerequisite: Automotive Technology I: Maintenance and Light Repair

**Practicum in Transportation Systems (PRACTRS1/PRACTRS2)***

Advanced CTE Course
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  
Credits: 2-3
Prerequisite: Automotive Technology II
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: 10-11
Credits: 1

Maritime Science II (MSCI2)
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: 10-11
Credits: 1

Practicum in Distribution and Logistics (PRACDLG1/PRACDLG2) *
Advanced CTE Course
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: 11 - 12
Credits: 2
Prerequisite: Maritime Science I and II