High School Information Guide

&

Course Descriptions
The High School Information Guide & Course Descriptions contains important information for students on how they can be successful in high school and in planning a course pathway to acceptance and success in college or in a career of their choice.

The High School Information Guide & Course Descriptions has two sections:
- General information for students and parents;
- High school information on graduation programs, course descriptions, and Career and Technical Education course descriptions

Below are some ways this guide may be used:
- Identify a topic of interest from the Table of Contents and go directly to it.
- Read the general information section all the way through.
- Students refer to the descriptions of the courses to help them select their courses for the upcoming academic year.

It is very important for students to look ahead at the courses that are necessary to meet graduation requirements. Because many courses have prerequisite courses that must be taken in the freshman, sophomore or junior year, a senior high school student may not be able to take a course that requires a prerequisite course. This may result in the student not obtaining the credits needed to graduate. Consequently, planning ahead is a must!

Students should visit their guidance counselors to get help with selecting the right courses to take.

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1216 N. Shary Rd.
Mission, TX 78572
(956) 580-5300

SHARYLAND PIONEER HIGH SCHOOL
10001 N. Shary Rd.
Mission, TX 78572
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SHARYLAND ADVANCED ACADEMIC ACADEMY
1106 N. Shary Rd.
Bldg. A
Mission, TX 78572
(956) 584-6467

The contents of this handbook are not contractual and do not give rise to a claim of breach of contract against the school district. Courses listed may not be available on all campuses or may not be offered in a given year. Further, intervention courses that are not listed in this handbook may be offered to students who are in need of passing end-of-course examinations. The contents of this handbook may be amended in the future.
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Core Academics

Core academic courses provide instruction in all state-mandated Texas Essential Knowledge and Skills (TEKS). The TEKS identify what Texas students should know and be able to do at every grade and in every course. The State Board of Education has adopted the TEKS as the standard curriculum for all Texas schools. The TEKS curriculum provides students with learning objectives called Student Expectations (SE).

Core academic courses provide a solid education for students as they prepare to enter post-secondary education, technical job preparation programs and/or the workforce. Learning in the core academic classes focuses on comprehension, application, analysis and synthesis of subject area content, processes and skills.

To encourage enrollment in courses beyond the state required number, the district allows students to elect to take some courses on a pass/fail basis.

To review the TEKS by subject area, please go to the following link: http://www.tea.state.tx.us/index2.aspx?id=6148

Pre-Advanced Placement (Pre-AP) and Advanced Placement (AP) Programs

The College Board’s AP Program offers high school students an opportunity to take college-level courses. Upon successful completion of a course, students receive high school credit with weighted grade points. If students score a 3 or better on the AP Exam, they may receive college credit upon college entrance. Pre-AP courses contain the levels of rigor necessary to provide readiness for the increased difficulty of high school AP courses. Formal identification of Gifted and Talented (GT) is not required to participate in Pre-AP and/or AP courses. However, high school Pre-AP and AP courses provide GT differentiation as required by the Texas State Plan for the Education of GT Students.

Careful consideration of the time demands of extracurricular activities, employment, community service, homework and other activities should be considered when electing to take a Pre-AP or AP course. Students are encouraged to visit their guidance counselor if they have questions regarding whether or not these are the right courses for them.

To learn more about Pre-AP or AP courses, please go to the following link: http://apcentral.collegeboard.com.

Career and Technical Education (CTE) Programs of Study

All students have the opportunity to complete CTE courses in conjunction with traditional core academic courses. CTE courses are designed to allow students to learn specific knowledge and skills while exploring career opportunities.
These courses also allow students to graduate prepared for both postsecondary education and training and/or entry-level employment. Enrollment in CTE courses is open to all qualified students without regard to race, color, creed, religious affiliation, sex or handicapping conditions.

**Dual Enrollment (DE) Courses**

Credit earned through DE courses count for both college and high school credit. Students must meet the testing requirement of the DE course for which they are enrolled. In addition, DE courses become a part of a student’s permanent college record and transcript. Students should check with their guidance counselor prior to enrolling in DE courses.

Sharyland ISD also offers specific 2-year Associate programs through South Texas College and dual course offerings through the University of Texas-Rio Grande Valley. See your counselor for more detailed information regarding these off-campus experiences.

**English Language Learners**

The State of Texas requires that every student in the State who has a home language other than English and is identified as limited English proficient (LEP) be provided the opportunity to participate in an English as a second language (ESL) program. The ESL program emphasizes the mastery of English language skills within content-based instruction through individualized instructional approaches such as sheltered instruction. Courses are offered to students based on the Limited English Proficiency Committee (LPAC) recommendations.

**Special Education Services**

Students with disabilities have the opportunity to participate in educational programs and activities with students without disabilities. The school district curriculum enables each student with disabilities to acquire content knowledge and skills commensurate with the student’s needs and abilities. These skills may be attained in the general program of instruction or through special education modification, accommodation or instruction and related services, as determined by the Admission, Review, and Dismissal (ARD) Committee.

If a student has or is suspected of having a disability and requires specially designed instruction that can only be provided through special education, please contact a campus guidance counselor for information concerning the special education referral process.

**Students with Disabilities–Section 504**

The Rehabilitation Act of 1973, reauthorized in 2008, commonly referred to as “Section 504,” is a non-discrimination statute enacted by the United States Congress. The purpose of the Act is to prohibit discrimination and to ensure that students with disabilities have educational opportunities and benefits equal to those provided to other students. An eligible student under Section 504 is a student who has a physical or mental impairment that substantially limits them in a major life activity such as learning, self-care, walking, seeing, hearing, speaking, reading, concentrating, breathing, working and performing manual tasks. See the campus 504 Coordinator for more information about services for qualifying students.
Students with Dyslexia and Related Disorders

Students with dyslexia have difficulty with reading, writing and/or spelling. Each campus has an assigned diagnostician who is trained to reevaluate, instruct, and monitor eligible students. Schools serve students with dyslexia or related disorders in a variety of ways determined by a campus 504 committee. Services may include specialized instruction, classroom accommodations, and assistive technology. See the campus 504 Coordinator for more information about services for qualifying students.

STAAR End-of-Course (EOC) Assessments

The state of Texas requires that students achieve satisfactory performance on five required EOC assessments to be eligible to receive a high school diploma. The five required EOC assessments are the following: English I, English II, Algebra I, Biology, and U. S. History.

Block Scheduling

High School students at Sharyland ISD follow block scheduling. Block scheduling consists of four 90-minute blocks and one 50-minute block. The school year is divided into two terms and 4 semesters. Each terms allows students the opportunity to complete full credits in 18 weeks.

GO Center

Academic and career planning is an ongoing process for students in Sharyland ISD. High school students may visit their campus GO Center to receive help with college/career readiness, career exploration, financial aid, scholarships, testing, transcripts and more.

Career Cruising

In grades 9-12 students may also utilize the web-based program, Career Cruising, to complete a career cluster survey, skills assessment, and self-assessment which will plot their interests. Students are encouraged to visit their guidance counselor or GO Center to inquire about how to obtain access to the program.
Please visit your guidance counselor for dates that examinations are given.

**NOTE:** If a student is given credit in a subject on the basis of an examination, the school district must enter the examination score on the student's transcript. Although it is used in calculating the GPA in eligible courses, it is not used in computing class rank. A student may not use this examination to regain eligibility to participate in extracurricular activities.
Grading Guidelines

Sharyland ISD Grading Guidelines

Purpose for Grading Guidelines

Sharyland ISD recognizes that implementing district-wide grading guidelines brings consistency in the assessment of the educational development, performance, and achievement of all students attending our schools. Pursuant to Board Policy E1A (Local), these grading guidelines outline (1) the number of grades teachers must take to support the grade average assigned, (2) the criteria for students to redo an assignment or retake a test, and (3) the opportunity students are provided to redo an assignment or retake a test.

Grading Guidelines

1. Teachers will record a minimum of 2 grades per week in the district electronic gradebook.
   * Elementary Only- Content areas for which 2 grades per week will be recorded are the following: Reading, Language Arts*, Math, Science, and Social Studies. All other content areas will record a minimum of 1 grade per week.

2. Teachers will use the following in marking assignments completed by students:

<table>
<thead>
<tr>
<th>Pre-K</th>
<th>K-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>E (90-100)</td>
<td>Numerical Grades</td>
</tr>
<tr>
<td>S (80-89)</td>
<td></td>
</tr>
<tr>
<td>NI (70-79)</td>
<td></td>
</tr>
<tr>
<td>U (60-Below)</td>
<td></td>
</tr>
</tbody>
</table>

3. To establish consistency in terminology, all subjects and all grades will use the grading categories of Major Assignments and Minor Assignments. These categories may include but are not limited to the following assignments:

<table>
<thead>
<tr>
<th>Major Assignments</th>
<th>Tests</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Reports</td>
</tr>
<tr>
<td></td>
<td>Research Papers</td>
</tr>
<tr>
<td></td>
<td>Projects/Presentations</td>
</tr>
<tr>
<td></td>
<td>Essays</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Minor Assignments</th>
<th>Daily Classwork/Practices</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Homework</td>
</tr>
<tr>
<td></td>
<td>Quizzes</td>
</tr>
<tr>
<td></td>
<td>Accelerated Reader</td>
</tr>
<tr>
<td></td>
<td>Lab Work</td>
</tr>
<tr>
<td></td>
<td>Binder Checks</td>
</tr>
</tbody>
</table>

4. The following weights will be used in determining a final grade average:

   | Major Assignments | 60% | Minimum Number: 3 |
   | Minor Assignments | 40% | Minimum Number: 9 |

DEIC Approved 09/02/13
• Elementary Only—*The following weights will be used in determining a final grade average for Language Arts:

<table>
<thead>
<tr>
<th>Composition</th>
<th>Major Assignments</th>
<th>60%</th>
<th>Minimum Number: 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grammar</td>
<td>Minor Assignments</td>
<td>40%</td>
<td>Minimum Number: 9</td>
</tr>
<tr>
<td></td>
<td>(A teacher may opt to assess Grammar and/or Spelling within a Composition and count it as a minor assignment.)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

5. Students with an excused absence from school (including off-campus suspension) will have the opportunity to make up missed work at the rate of one day for one day missed, with a maximum of five days. Students who are absent but had prior notice of a major or minor assignment must complete the assignment on the first day back to school. Student will receive a zero for any major or minor assignment not made up within the allotted time.

6. Students with an unexcused absence may not make up missed work; however, if the unexcused absence is determined to be caused by an extenuating circumstance, makeup work may be allowed. The grade for the makeup work will be no higher than a 70.

7. All students will be given up to 3 additional school days to redo a failing major assignment, but the grade will be no higher than a 70. The teacher has the option of assigning an alternative major assignment. The teacher will indicate in the gradebook that the assignment was redone.

8. All students will be given 3 additional days to make up a major assignment if late (with a progressive grade penalty of 10 points per day).

9. If 50% or more of students in a class fail a major assignment, the entire class will receive reteaching of the content using a different instructional strategy from the original presentation. All students will be given an alternative major assignment. Students will receive the higher of the two grades earned. The teacher will indicate in the gradebook that the assignment was retaught.

10. A progress report will be sent home at the end of the three-week period for all students and must include a minimum of 1 major assignment. A progress report may be sent home anytime in addition to the three-week period. Parents are strongly encouraged to schedule parent conferences with teachers to discuss their child’s progress.

11. The cumulative average for a nine week grading period in high school and for the three reporting periods in junior high will count as 80% of the final semester grade. Semester exams will be comprehensive and count as 20% of the semester grade. Should the semester exam cause a student to fail the semester, the student has the option of retesting. The student must retest within 3 days, and the retest will be the sole responsibility of the student. The campus administrator may extend the retesting timeframe in extenuating circumstances. The retest grade will be no higher than a 70.

12. Generally, report cards will be sent home on Wednesday after the close of a grading period (for high school, after a 9 week period).

DEIC Approved 09/02/13
# Graduation Requirements

**Students entering 9th grade in school year 2010-2011 through 2012-2013** can graduate under one of the graduation programs outlined below:

<table>
<thead>
<tr>
<th>Minimum Plan – 22 Credits*</th>
<th>Recommended Plan – 26 Credits*</th>
<th>Distinguished Plan – 26 Credits*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>English Language Arts</strong> – 4 Credits</td>
<td><strong>English Language Arts</strong> – 4 Credits</td>
<td><strong>English Language Arts</strong> – 4 Credits</td>
</tr>
<tr>
<td>English I</td>
<td>English I</td>
<td>English I</td>
</tr>
<tr>
<td>English II</td>
<td>English II</td>
<td>English II</td>
</tr>
<tr>
<td>English III</td>
<td>English III</td>
<td>English III</td>
</tr>
<tr>
<td>4th ELA Credit</td>
<td>4th ELA Credit</td>
<td>4th ELA Credit</td>
</tr>
<tr>
<td><strong>Mathematics</strong> – 3 Credits</td>
<td><strong>Mathematics</strong> – 4 Credits</td>
<td><strong>Mathematics</strong> – 4 Credits</td>
</tr>
<tr>
<td>Algebra I</td>
<td>Algebra I</td>
<td>Algebra I</td>
</tr>
<tr>
<td>Geometry</td>
<td>Geometry</td>
<td>Geometry</td>
</tr>
<tr>
<td>3rd Math Credit</td>
<td>4th Math Credit</td>
<td>4th Math Credit</td>
</tr>
<tr>
<td><strong>Social Studies</strong> – 3 Credits</td>
<td><strong>Social Studies</strong> – 4 Credits</td>
<td><strong>Social Studies</strong> – 4 Credits</td>
</tr>
<tr>
<td>World Geography or World History</td>
<td>World Geography</td>
<td>World Geography</td>
</tr>
<tr>
<td>U.S. History</td>
<td>World History</td>
<td>World History</td>
</tr>
<tr>
<td>Government (.5)</td>
<td>U.S. History</td>
<td>U.S. History</td>
</tr>
<tr>
<td>Economics (.5)</td>
<td>Government (.5)</td>
<td>Government (.5)</td>
</tr>
<tr>
<td><strong>Science</strong> – 2 Credits</td>
<td><strong>Science</strong> – 4 Credits</td>
<td><strong>Science</strong> – 4 Credits</td>
</tr>
<tr>
<td>Biology</td>
<td>Biology</td>
<td>Biology</td>
</tr>
<tr>
<td>2nd Science Credit</td>
<td>Chemistry</td>
<td>Chemistry</td>
</tr>
<tr>
<td><strong>Academic Elective</strong> – 1 Credit</td>
<td><strong>Academic Elective</strong> – 1 Credit</td>
<td><strong>Academic Elective</strong> – 1 Credit</td>
</tr>
<tr>
<td>World History, World Geography or 3rd Science</td>
<td>World History, World Geography or 3rd Science</td>
<td>World History, World Geography or 3rd Science</td>
</tr>
<tr>
<td><strong>Physical Education</strong> – 1.0 Credits</td>
<td><strong>Physical Education</strong> – 1.0 Credits</td>
<td><strong>Physical Education</strong> – 1.0 Credits</td>
</tr>
<tr>
<td><strong>Health</strong> – .5 Credits</td>
<td><strong>Health</strong> – .5 Credits</td>
<td><strong>Health</strong> – .5 Credits</td>
</tr>
<tr>
<td>Speech – .5 Credits</td>
<td>Speech – .5 Credits</td>
<td>Speech – .5 Credits</td>
</tr>
<tr>
<td><strong>Fine Arts</strong> – 1 Credit</td>
<td><strong>Fine Arts</strong> – 1 Credit</td>
<td><strong>Fine Arts</strong> – 1 Credit</td>
</tr>
<tr>
<td>Electives – 6 Credits</td>
<td>Electives – 5 Credits</td>
<td>Electives – 4 Credits</td>
</tr>
<tr>
<td><strong>Language Other Than English</strong> – 2 Credits</td>
<td><strong>Language Other Than English</strong> – 2 Credits</td>
<td><strong>Language Other Than English</strong> – 2 Credits</td>
</tr>
<tr>
<td>Must be of any two levels of same language</td>
<td>Must be of any two levels of same language</td>
<td>Must be of any three levels of same language</td>
</tr>
<tr>
<td><strong>Physical Education</strong> – 1.0 Credits</td>
<td><strong>Physical Education</strong> – 1.0 Credits</td>
<td><strong>Physical Education</strong> – 1.0 Credits</td>
</tr>
<tr>
<td>Health – .5 Credits</td>
<td>Health – .5 Credits</td>
<td>Health – .5 Credits</td>
</tr>
<tr>
<td>Speech – .5 Credits</td>
<td>Speech – .5 Credits</td>
<td>Speech – .5 Credits</td>
</tr>
<tr>
<td><strong>Fine Arts</strong> – 1 Credit</td>
<td><strong>Fine Arts</strong> – 1 Credit</td>
<td><strong>Fine Arts</strong> – 1 Credit</td>
</tr>
<tr>
<td>Electives – 5 Credits</td>
<td>Electives – 5 Credits</td>
<td>Electives – 4 Credits</td>
</tr>
</tbody>
</table>

*See guidance counselor for eligible course substitutes.*
The 83rd Regular Session of the Texas Legislature passed House Bill 5 (HB 5) which codified changes to the Texas Education Code (TEC) in a number of areas including graduation programs for students beginning in the 2014-2015 school year. The information below reflects those changes made by HB5:

**Students entering 9th grade in school year 2014 and beyond** can graduate under one of the following graduation programs:

- Foundation High School Program
- Foundation High School Program with Endorsement
- Foundation High School Program with Endorsement & Distinguished Level of Achievement

Students are also eligible to obtain Performance Acknowledgements on their diplomas and transcripts.

*The Sharyland ISD Four-Year Graduation Plans on the following pages serve to guide students in their selection of courses.*

**Each plan is specific to the Endorsement students select.** Students are able to select from the following five Endorsements:

- Arts & Humanities
- Business & Industry
- Multidisciplinary
- Public Services
- Science, Technology, Engineering & Mathematics (STEM)

Students should meet with their guidance counselor for any specific questions they may have and to ensure that a *HB 5 Endorsement Selection Form* indicating the Endorsement they have selected is on file.

Additional HB5 Resources, including informative videos in English and Spanish can be found here [http://ipsi.utexas.edu/hb5-resources-2/](http://ipsi.utexas.edu/hb5-resources-2/)
# Sharyland ISD Four-Year Graduation Plan

**Student Name** ____________________________ **ID** ____________ **Graduation Date** ____________

<table>
<thead>
<tr>
<th>Foundation HS Program – 22 Credits (FHSP)</th>
<th>Arts &amp; Humanities Endorsement – 26 Credits</th>
<th>Performance Acknowledgements on Transcripts</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>English Language Arts – 4 Credits</strong></td>
<td>Required Courses:</td>
<td><strong>OPTION A: DUAL CREDIT</strong></td>
</tr>
<tr>
<td>□ English I</td>
<td>□ Additional 4th Math</td>
<td><strong>Choose One</strong></td>
</tr>
<tr>
<td>□ English II</td>
<td>□ Additional 4th Science*</td>
<td>□ ≥12 hours of college academic courses,</td>
</tr>
<tr>
<td>□ English III</td>
<td>(Chemistry, AP Chemistry, Physics, AP</td>
<td>with grade ≥ 3.0 on a scale of 4.0 or</td>
</tr>
<tr>
<td>□ Advanced English</td>
<td>Physics I, AP Biology, AP Environmental</td>
<td>□ An associate degree while in high</td>
</tr>
<tr>
<td>(English II, Creative Writing, Debate</td>
<td>Science, Advanced Animal Science, Anatomy &amp;</td>
<td>school</td>
</tr>
<tr>
<td>II, Advanced Journalism, Yearbook II,</td>
<td>Physiology, Medical Microbiology, Parent</td>
<td></td>
</tr>
<tr>
<td>AP English Literature, College Prep)</td>
<td>Science, Scientific Research &amp; Design,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Principles of Engineering)</td>
<td></td>
</tr>
<tr>
<td><strong>Mathematics – 3 Credits</strong></td>
<td>*With written parental consent on FSA,</td>
<td></td>
</tr>
<tr>
<td>□ Algebra I</td>
<td>SS, LOTE, 5 Fine Arts course may be</td>
<td></td>
</tr>
<tr>
<td>□ Geometry</td>
<td>substituted for this additional science credit)</td>
<td></td>
</tr>
<tr>
<td>□ Adv. 3rd Math</td>
<td><strong>For additional credits, select one</strong></td>
<td></td>
</tr>
<tr>
<td>(Math Models, Digital Electronics, Algebra II, College Prep Math HS)</td>
<td><strong>Option below:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Social Studies – 3 Credits</strong></td>
<td><strong>OPTION A: SOCIAL STUDIES</strong></td>
<td></td>
</tr>
<tr>
<td>□ World Geography or World History</td>
<td>□ World Geography</td>
<td></td>
</tr>
<tr>
<td>□ U.S. History</td>
<td>□ World History</td>
<td></td>
</tr>
<tr>
<td>□ Government (.5)</td>
<td>□ US History – DE (Spring Term)</td>
<td></td>
</tr>
<tr>
<td>□ Economics (.5)</td>
<td>□ Government/Economics</td>
<td></td>
</tr>
<tr>
<td>□ World History – DE (Fall Term)</td>
<td>□ US History – DE</td>
<td><strong>OPTION B: BILINGUALISM AND BLITERACY</strong></td>
</tr>
<tr>
<td><strong>Science – 3 Credits</strong></td>
<td>□ World History – DE</td>
<td>** Choose one of the following:**</td>
</tr>
<tr>
<td>□ Biology</td>
<td>□ ≥ 3 credits in some language in a LOTE &amp; GPA of ≥80</td>
<td></td>
</tr>
<tr>
<td>□ Additional 2nd Science</td>
<td>□ TEKS proficiency for a Level IV in a LOTE &amp; GPA of ≥80</td>
<td></td>
</tr>
<tr>
<td>(Biology, AP Chemistry, Physics, AP Physics)</td>
<td>□ ≥ 3 credits in foundation subject area courses in a LOTE &amp; GPA of ≥80</td>
<td></td>
</tr>
<tr>
<td>□ Additional 3rd Advanced Science</td>
<td>□ Score ≥ 3 on AP for a LOTE</td>
<td><strong>OPTION C: ADVANCED PLACEMENT (AP)</strong></td>
</tr>
<tr>
<td>(Chemistry, AP Chemistry, Physics, AP Biology, AP Environmental Science, Advanced Animal Science, Anatomy &amp; Physiology, Medical Microbiology, Forensic Science, Scientific Research &amp; Design, Principles of Engineering)</td>
<td>□ ≥ 3 on a College Board AP exam</td>
<td><strong>OPTION D: PSAT, ACT-ASPIRE SAT, ACT</strong></td>
</tr>
<tr>
<td>□ Physical Science</td>
<td><strong>Must meet one of the following:</strong></td>
<td><strong>Choose One</strong></td>
</tr>
<tr>
<td>□ Physical Education</td>
<td>□ Qualifying for a commended scholar or higher (PSAT/NMSQT)</td>
<td><strong>OPTION E: NATIONAL OR INTERNATIONAL BUSINESS &amp; INDUSTRY CERTIFICATION OR LICENSE</strong></td>
</tr>
<tr>
<td>(Track, Band, Dance, Choir, Mariachi, Folkloric, Theatre &amp; Art courses)</td>
<td>□ Achieving college readiness benchmark scores on 22 subject tests on ACT-ASPIRE</td>
<td><strong>Choose One</strong></td>
</tr>
<tr>
<td><strong>Languages Other Than English (LOTE)</strong></td>
<td>□ Earning combined reading and math score of ≥1250 on SAT</td>
<td><strong>OPTION F: ENGLISH</strong></td>
</tr>
<tr>
<td>□ Year 1</td>
<td>□ Earning composite score on ACT of ≥28 (excluding the writing subscore)</td>
<td><strong>(NOT AVAILABLE)</strong></td>
</tr>
<tr>
<td>□ Year 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fine Arts – 1 Credit</strong></td>
<td><strong>OPTION F: ENGLISH</strong></td>
<td><strong>DISTINGUISHED LEVEL OF ACHIEVEMENT</strong></td>
</tr>
<tr>
<td>□ Band, Dance, Choir, Mariachi, Folkloric, Theatre &amp; Art courses)</td>
<td><strong>NOT AVAILABLE</strong></td>
<td>□ FHSP</td>
</tr>
<tr>
<td><strong>Physical Education – 1 Credit</strong></td>
<td><strong>OPTION F: ENGLISH</strong></td>
<td>□ Complete at least one Endorsement</td>
</tr>
<tr>
<td>□ Physical Education</td>
<td><strong>(NOT AVAILABLE)</strong></td>
<td>□ 4 Credits in Science</td>
</tr>
<tr>
<td>(Track, Band, Dance, Drill Team, Folkloric, Cheer, ROTC)</td>
<td><strong>OPTION F: ENGLISH</strong></td>
<td>□ 4 Credits in Math, to include Algebra II</td>
</tr>
<tr>
<td><strong>Elective – 5 Credits</strong></td>
<td></td>
<td><strong>STAA - EOC</strong></td>
</tr>
<tr>
<td>□ Technology (1 Credit)</td>
<td><strong>OPTION F: ENGLISH</strong></td>
<td>□ College Readiness-TSI</td>
</tr>
<tr>
<td>(Biology &amp; Chemistry, Auto, Business, Computer Science, Digital Media, Graphic Design &amp; Art, Media Studies, Media Technology)</td>
<td><strong>OPTION F: ENGLISH</strong></td>
<td>□ English I</td>
</tr>
<tr>
<td>□ Prof. Communications (5 Credit)</td>
<td><strong>OPTION F: ENGLISH</strong></td>
<td>□ English II</td>
</tr>
<tr>
<td></td>
<td><strong>OPTION F: ENGLISH</strong></td>
<td>□ Reading</td>
</tr>
<tr>
<td><strong>For counselor verification only</strong></td>
<td><strong>OPTION F: ENGLISH</strong></td>
<td>□ Algebra I</td>
</tr>
<tr>
<td>□ Elective 1</td>
<td><strong>OPTION F: ENGLISH</strong></td>
<td>□ Biology</td>
</tr>
<tr>
<td>□ Elective 2</td>
<td><strong>OPTION F: ENGLISH</strong></td>
<td>□ U.S. History</td>
</tr>
<tr>
<td>(Choose additional electives from your selected Endorsement or other available elective choices.)</td>
<td><strong>OPTION F: ENGLISH</strong></td>
<td></td>
</tr>
</tbody>
</table>

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**Note:** All courses should be completed by the end of the senior year.

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**For counselor verification only**
# Sharyland ISD Four-Year Graduation Plan

**Student Name** ____________________________  **ID** ____________________________  **Graduation Date** ____________

## Foundation HS Program – 22 Credits (FHSP)
- **English Language Arts – 4 Credits**
  - English I
  - English II
  - English III
  - Advanced English
    - English IV, Creative Writing, Debate II, Advanced Journalism: Yearbook III, AP English Literature, College Preparatory ELA (H6S)
- **Mathematics – 3 Credits**
  - Algebra I
  - Geometry
  - Adv. 3rd Math
    - Math Models, Digital Electronics, Algebra II, College Preparatory Math (H6S)
- **Social Studies – 3 Credits**
  - World Geography or World History
  - U.S. History
  - Government (5)
  - Economics (5)
- **Science – 3 Credits**
  - Biology
  - Additional 2nd Science
    - IPC, Chemistry, AP Chemistry, Physics, AP Physics (I)
  - Additional 3rd Advanced Science
- **Languages Other Than English (LOTE)**
  - 2 Credits in the same language
    - Year 1
    - Year 2
- **Fine Arts – 1 Credit**
  - Band, Dance, Choir, Mariachi, Folkloric, Theatre & Art courses
- **Physical Education – 1 Credit**
  - Physical Education
    - PE, Athletics, Band, Dance, Drill Team, Folklore, Cheer, (JROTC)

## Business & Industry Endorsement – 26 Credits
- **Required Courses:**
  - Additional 4th Math
    - Algebra II, Pre-Calculus, Advanced Quantitative Reasoning, Independent Study in Math, AP Statistics, AP Calculus AB, AP Calculus BC, College Preparatory Math (H6S)
  - Additional 4th Science
    - (With written parental permission, an ELA 35, LOTE & Fine Arts course may be substituted for this additional science credit)
- **For additional credits, select one Option below:**
  - **OPTION A: CTE**
    - CTE Course 1
    - CTE Course 2
    - CTE Course 3
    - CTE Course 4
    - (At least 2 courses must be from same cluster; one must be an advanced CTE course; final course must be from one of the following clusters: Ag, Architecture, AV Tech, Business, Info Tech, Transportation)
  - **OPTION B: ENGLISH**
    - Course 1
    - Course 2
    - Course 3
    - Course 4
    - (3 levels in one of the following areas: Debate, Advanced Journalism)
  - **OPTION C: TECHNOLOGY APPLICATIONS (NOT AVAILABLE)**
  - **OPTION D: COMBINATIONS**
    - Course 1
    - Course 2
    - Course 3
    - Course 4
    - (Must choose a coherent sequence of courses from options above)

## Performance Acknowledgements On Transcripts
- **OPTION A: DUAL CREDIT**
  - (Choose One)
    - (≥12 hours of college academic courses, with grade ≥ 3.0 on a scale of 4.0 or an associate degree while in high school)
  - **OPTION B: BILINGUALISM AND BILITERACY**
    - (All ELA requirements completed & GPA of ≥80)
    - (Met exit criteria for Bilingual/ESL program and scored Advanced High level on TELPAS the ill only)
    - (Choose one of the following):
      - (≥3 credits in same language in a LOTE & GPA of ≥80)
      - (TEXS proficiency for ≥ Level IV in a LOTE & GPA of ≥80)
      - (≥3 credits in foundation subject area courses in a LOTE & GPA of ≥80)
      - (Score ≥ 3 on AP for a LOTE)
  - **OPTION C: ADVANCED PLACEMENT (AP)**
    - (≥3 on a College Board AP exam)
  - **OPTION D: PSAT, ACT-ASPIRE, SAT, ACT**
    - (Must meet one of the following):
      - (Qualifying for a commended scholar or higher (PSAT/NMSQT))
      - (Achieving college readiness benchmark scores on ≥2 subject tests on ACT-ASPIRE)
      - (Earning combined reading and math score of ≥1250 on SAT)
      - (Earning composite score on ACT of ≥28 (excluding the writing subscore))
  - **OPTION E: NATIONAL OR INTERNATIONAL BUSINESS & INDUSTRY CERTIFICATION OR LICENSE**
    - (Choose One)
      - (Performance on an exam or series of exams to obtain a nationally recognized business or industry certification)
      - (Performance on an exam to obtain a government-required credential to practice a profession)

## Distinguished Level of Achievement
- **FHSP**
  - Complete at least one Endorsement
  - 4 Credits in Science
  - 4 Credits in Math, to include Algebra II

### STAAR-EOC
- **College Readiness-TSI**
  - English I
  - Math
  - English II
  - Reading
  - Algebra I
  - Writing
  - Biology
  - U.S. History

**For counselor verification only**

- Elective 1
- Elective 2

(Choose additional electives from your selected Endorsement or other available elective choices.)
# Sharyland ISD Four-Year Graduation Plan

**Student Name: __________________**  **ID: ________**  **Graduation Date: ________**

## Foundation HS Program – 22 Credits (FHSP)
- **English Language Arts – 4 Credits**
  - English I
  - English II
  - English III
  - Advanced English
    - (English IV, Creative Writing, Debate III, Advanced Journalism, Yearbook III, AP English Literature, College Preparatory English I & II)
- **Mathematics – 3 Credits**
  - Algebra I
  - Geometry
  - Adv. 3rd Math
    - (Math Models, Digital Electronics, Algebra II, College Preparatory Math I & II)
- **Social Studies – 3 Credits**
  - World Geography or World History
  - U.S. History
  - Government (.5)
  - Economics (.5)
- **Science – 8 Credits**
  - Biology
  - Additional 2nd Science
    - (IPC, AP Chemistry, Physics, AP Physics I)
  - Additional 3rd Science
- **Languages Other Than English (LOTE)**
  - 2 Credits in the same language
    - Year 1
    - Year 2
- **Fine Arts – 1 Credit**
  - Band, Dance, Choir, Mariachi, Folkloric, Theatre & Art courses
- **Physical Education – 1 Credit**
  - Physical Education
    - (PE, Athletics, Band, Dance, Drill Team, Folkloric, Cheer, ROTC)
- **Elective – 5 Credits**
  - Technology (1 Credit)
  - Prof. Communications (5 Credit)
    - __________________________________________ (4 Elect. Credit)

(Choose additional electives from your selected Endorsement or other available elective choices.)

## Multidisciplinary Endorsement – 26 Credits

### Required Courses:
- **Additional 4th Math**
  - (Algebra II, Pre-Calculus, Advanced Quantitative Reasoning, Independent Study in Math, AP Statistics, AP Calculus AB, AP Calculus BC, College Preparatory Math I & II)
- **Additional 4th Science**
  - *With written parental permission, an LPA, LOT, LITE, or Fine Arts course may be substituted for the additional science credit.*

For additional credits, select one Option below:

### OPTION A: ADVANCED COURSEWORK
- **Course 1**
- **Course 2**
- **Course 3**
- **Course 4**
  - (Four advanced courses from any Endorsement area and in any sequence)

### OPTION B: FOUNDATION SUBJECT AREAS
- 4 Courses in ELA (to include English IV)
- 4 Courses in Math
- 4 Courses in Science (to include Chemistry and/or Physics)
- 4 Courses in Social Studies

### OPTION C: ADVANCED PLACEMENT or DUAL CREDIT
- **Course 1**
- **Course 2**
- **Course 3**
- **Course 4**
  - (Must select from the following courses & meet criteria: AP English Language, AP English Literature, DE English III (Fall Term), DE English III (Spring Term), DE English IV, AP Calculus AB, AP Calculus BC, AP Statistics, DE College Algebra, AP Biology, AP Chemistry, AP Physics I, AP Environmental Science, DE Biology I & II, DE Chemistry I & II, AP World History, AP U.S. History, AP Government, AP Micro Economics, DE US History (Fall Term), DE US History (Spring Term), DE Government, DE Economics, AP Spanish Language, AP French Language, DE Art Appreciation, DE Drama Appreciation, DE Psychology [.5])

**For counselor verification only**

- **Elective 1**
- **Elective 2**

## Performance Acknowledgements on Transcripts

| OPTION A: DUAL CREDIT
<table>
<thead>
<tr>
<th>Choose One</th>
</tr>
</thead>
<tbody>
<tr>
<td>≥12 hours of college academic courses, with grade ≥ 3.0 on a scale of 4.0 or</td>
</tr>
<tr>
<td>An associate degree while in high school</td>
</tr>
</tbody>
</table>

| OPTION B: BILINGUALISM AND BILITERACY
<table>
<thead>
<tr>
<th>Choose one of the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td>≥3 credits in same language in a LOTE &amp; GPA of 280</td>
</tr>
<tr>
<td>TEXS proficiency for ≥ Level IV in a LOTE &amp; GPA of 280</td>
</tr>
<tr>
<td>≥3 credits in foundation subject area courses in a LOTE &amp; GPA of 280</td>
</tr>
<tr>
<td>Score ≥3 on AP for a LOTE</td>
</tr>
</tbody>
</table>

| OPTION C: ADVANCED PLACEMENT (AP)
| ≥3 on a College Board AP exam |

| OPTION D: PSAT, ACT-ASPIRE, SAT, ACT
<table>
<thead>
<tr>
<th>Must meet one of the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualifying for a commended scholar or higher (PSAT/NMSQT)</td>
</tr>
<tr>
<td>Achieving college readiness benchmark scores on ≥2 subject tests on ACT-ASPIRE</td>
</tr>
<tr>
<td>Earning combined reading and math score of ≥1250 on SAT</td>
</tr>
<tr>
<td>Earning composite score on ACT of 28 (excluding the writing subscore)</td>
</tr>
</tbody>
</table>

| OPTION E: NATIONAL OR INTERNATIONAL BUSINESS & INDUSTRY CERTIFICATION OR LICENSE
<table>
<thead>
<tr>
<th>Choose One</th>
</tr>
</thead>
<tbody>
<tr>
<td>Performance on an exam or series of exams to obtain a nationally recognized business or industry certification or</td>
</tr>
<tr>
<td>Performance on an exam to obtain a government-required credential to practice a profession</td>
</tr>
</tbody>
</table>

## Distinguished Level of Achievement
- FHSP
- Complete at least one Endorsement
- 4 Credits in Science
- 4 Credits in Math, to include Algebra II

<table>
<thead>
<tr>
<th>STAAR-EOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>English I</td>
</tr>
<tr>
<td>English II</td>
</tr>
<tr>
<td>Reading</td>
</tr>
<tr>
<td>Algebra I</td>
</tr>
<tr>
<td>Writing</td>
</tr>
<tr>
<td>Biology</td>
</tr>
<tr>
<td>U.S. History</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>College Readiness- TSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math</td>
</tr>
<tr>
<td>English</td>
</tr>
<tr>
<td>Reading</td>
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<tr>
<td>Writing</td>
</tr>
<tr>
<td>Biology</td>
</tr>
<tr>
<td>U.S. History</td>
</tr>
</tbody>
</table>
# Sharyland ISD Four-Year Graduation Plan

## Student Name __________________________ ID __________________________ Graduation Date __________

**Foundation HS Program – 22 Credits (FHSP)**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Language Arts</td>
<td>4</td>
</tr>
<tr>
<td>English I</td>
<td></td>
</tr>
<tr>
<td>English II</td>
<td></td>
</tr>
<tr>
<td>English III</td>
<td></td>
</tr>
<tr>
<td>Advanced English</td>
<td></td>
</tr>
<tr>
<td>(English IV, Creative Writing, Debate III, Advanced Journalism)</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Algebra I</td>
<td></td>
</tr>
<tr>
<td>Geometry</td>
<td></td>
</tr>
<tr>
<td>Adv. 3rd Math (Math Models, Digital Electronics, Algebra II, College Preparatory Math HS)</td>
<td></td>
</tr>
<tr>
<td>Social Studies</td>
<td>3</td>
</tr>
<tr>
<td>World Geography or World History</td>
<td></td>
</tr>
<tr>
<td>U.S. History</td>
<td></td>
</tr>
<tr>
<td>Government (.5)</td>
<td></td>
</tr>
<tr>
<td>Economics (.5)</td>
<td></td>
</tr>
<tr>
<td>Science</td>
<td>3</td>
</tr>
<tr>
<td>Biology</td>
<td></td>
</tr>
<tr>
<td>Additional 2nd Science</td>
<td></td>
</tr>
<tr>
<td>(Physics, Chemistry, Physics, AP Physics)</td>
<td></td>
</tr>
<tr>
<td>Additional 3rd Advanced Science</td>
<td></td>
</tr>
<tr>
<td>Languages Other Than English (LOTE)</td>
<td>2 Credits in the same language</td>
</tr>
<tr>
<td>Year 1</td>
<td></td>
</tr>
<tr>
<td>Year 2</td>
<td></td>
</tr>
<tr>
<td>Fine Arts</td>
<td>1</td>
</tr>
<tr>
<td>(Band, Dance, Choir, Marion, Folklore, Theatre &amp; Art courses)</td>
<td></td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Physical Education (PE, Athletics, Band, Dance, Drill Team, Folklore, Choir, JROTC)</td>
<td></td>
</tr>
<tr>
<td>Elective – 5 Credits</td>
<td></td>
</tr>
<tr>
<td>Technology</td>
<td>1</td>
</tr>
<tr>
<td>(BUSM I &amp; II, PGM, OPT, PGM, A/V Prod., Digital Media, Web Tech., Graphic Design &amp; R/I, Comp. Programming)</td>
<td></td>
</tr>
<tr>
<td>Prof. Communications</td>
<td>5</td>
</tr>
<tr>
<td>(2 Elect. Credit)</td>
<td></td>
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<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Public Services Endorsement – 26 Credits**

<table>
<thead>
<tr>
<th>Required Courses:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional 4th Math</td>
</tr>
<tr>
<td>(Algebra I, Pre-Calculus, Advanced Quantitative Reasoning, Independent Study in Math, AP Statistics, AP Calculus AB, AP Calculus BC, College Preparatory Math HS)</td>
</tr>
<tr>
<td>Additional 4th Science</td>
</tr>
</tbody>
</table>

*With written parental permission, an ELA, SS, LOTE & Fine Arts course may be substituted for this additional science credit*

**For additional credits, select one Option below:**

**OPTION A: CTE**

- CTE Course 1
- CTE Course 2
- CTE Course 3
- CTE Course 4

*At least 2 courses must be from same cluster, one must be an advanced CTE course, final course must be from one of the following clusters: Education, Health Science, Human Services, and Law & Public Safety*

**OPTION B: JROTC**

- JROTC I
- JROTC II
- JROTC III
- JROTC IV

**Performance Acknowledgements on Transcripts**

**OPTION A: DUAL CREDIT**

- Choose One
  - 12 hours of college academic courses, with grade 3.0 on a scale of 4.0 or
  - An associate degree while in high school

**OPTION B: BILINGUALISM AND BILITERACY**

- All ELA requirements completed & GPA of 280
- Met exit criteria for Bilingual/ESL program and scored Advanced High level on TELPAS (TOEFL and TOEIC)

*Choose one of the following:*

- ≥3 credits in same language in a LOTE & GPA of 280
- TEKS proficiency for ≥ Level IV in a LOTE & GPA of 280
- ≥3 credits in foundation subject area courses in a LOTE & GPA of 280
- Score ≥3 on AP for a LOTE

**OPTION C: ADVANCED PLACEMENT (AP)**

- ≥3 on a College Board AP exam

**OPTION D: PSAT, ACT-ASPIRE, SAT, ACT**

*Must meet one of the following:*

- Qualifying for a commended scholar or higher (PSAT/NMSQT)
- Achieving college readiness benchmark scores on ≥2 subject tests on ACT-ASPIRE
- Earning combined reading and math score of ≥1250 on SAT
- Earning composite score on ACT of 28 (excluding the writing subscore)

**OPTION E: NATIONAL OR INTERNATIONAL BUSINESS & INDUSTRY CERTIFICATION OR LICENSE**

*Choose One*

- Performance on an exam or series of exams to obtain a nationally recognized business or industry certification or
- Performance on an exam to obtain a government-required credential to practice a profession

**Distinguished Level of Achievement**

- FHSP
- Complete at least one Endorsement
- 4 Credits in Science
- 4 Credits in Math, to Include Algebra II

**STAAR-EOC**

- English I
- Math
- English II
- Reading
- Algebra I
- Writing
- Biology
- U.S. History

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**For counselor verification only**

- Elective 1
- Elective 2
# Sharyland ISD Four-Year Graduation Plan

**Rev. 03/10/15**

<table>
<thead>
<tr>
<th>Student Name</th>
<th>ID</th>
<th>Graduation Date</th>
</tr>
</thead>
</table>

## Foundation HS Program – 22 Credits (FHSP)

- **English Language Arts – 4 Credits**
  - English I
  - English II
  - English III
  - Advanced English (English IV, Creative Writing, Debate II, Advanced Journalism: Yearbook III, AP English Literature, College Preparatory English HHS)

- **Mathematics – 3 Credits**
  - Algebra I
  - Geometry
  - Adv. 3rd Math (Math Models, Digital Electronics, Algebra II, College Preparatory Math HHS)

- **Social Studies – 3 Credits**
  - World Geography or World History
  - U.S. History
  - Government (.5)
  - Economics (.5)

- **Science – 3 Credits**
  - Biology
  - Additional 3rd Science (IPC, Chemistry, AP Chemistry, Physics, AP Physics I)

- **Languages Other Than English (LOTE)**
  - (2 Credits in the same language)
  - Year 1
  - Year 2

- **Fine Arts – 1 Credit**
  - Band, Dance, Choir, Mariachi, Folklore, Theatre & Art courses

- **Physical Education – 1 Credit**
  - Physical Education
  - PE, Athletics, Band, Dance, Drill Team, Folklore, Cheer, BIOTE

- **Elective – 5 Credits**
  - Technology (1 Credit)
  - Prof. Communications (5 Credit)

**Performance Acknowledgements on Transcripts**

- **OPTION A: DUAL CREDIT**
  - ≥ 12 hours of college academic courses, with grade ≥ 3.0 on a scale of 4.0 or
  - An associate degree while in high school

- **OPTION B: BILINGUALISM AND BILITERACY**
  - All ELA requirements completed & GPA of ≥ 80
  - Met exit criteria for Bilingual/ESL program and scored Advanced High level on TELPAS for ELA

- **OPTION C: ADVANCED PLACEMENT (AP)**
  - ≥ 3 on a College Board AP exam

- **OPTION D: PSAT, ACT-ASPIRE, SAT, ACT**
  - Must meet one of the following:
    - Qualifying for a commended scholar or higher (PSAT/NMSQT)
    - Achieving college readiness benchmark scores on ≥2 subject tests on ACT-ASPIRE
    - Earning combined reading and math score of ≥1250 on SAT
    - Earning composite score on ACT of 28 (excluding the writing subscore)

- **OPTION E: NATIONAL OR INTERNATIONAL BUSINESS & INDUSTRY CERTIFICATION OR LICENSE**
  - Performance on an exam or series of exams to obtain a nationally recognized business or industry certification or
  - Performance on an exam to obtain a government-required credential to practice a profession

## STEM Endorsement – 26 Credits

- **Algebra II, Chemistry & Physics are required courses for this endorsement.**

  **Required Courses:**


*With written parental permission, an ELA, ESL, LOTE & Fine Arts course may be substituted for this additional science credit

**For additional credits, select one Option below:**

**OPTION A: CTE**

- CTE Course 1__________
- CTE Course 2__________
- CTE Course 3__________

**OPTION B: COMPUTER SCIENCE**

- CTE Course 4 (STEM)
  - (At least 3 courses must be from same cluster, one must be an advanced CTE course, final course must be from the STEM cluster)

**OPTION C: MATH**

- *Math Course 1 Algebra II__________
- *Math Course 2__________
- *Math Course 3__________
  - (Pre-Calculus, Advanced Quantitative Reasoning, AP Statistics, AP Calculus AB, AP Calculus BC)

**OPTION D: SCIENCE**

- Science Course 1 Chemistry__________
- Science Course 2 Physics__________
- * Science Course 3__________
- * Science Course 4__________

**OPTION E: COMBINATIONS**

- Course 1__________
- Course 2__________
- Course 3__________
  - (Must choose 3 courses from no more than 2 Options from above)

---

**For counselor verification only**

- Elective 1__________
- Elective 2__________

---

**For counselor verification only**

**STAAR-EOC College Readiness-TSI**

- English I
- English II
- Reading
- Algebra I
- Writing
- Biology
- U.S. History
English Language Arts Courses

- English I
- English I Pre-AP
- English for Speakers of Other Languages I
- English I Alternate
- English II
- English II Pre-AP
- English for Speakers of Other Languages II
- English II Alternate
- English III
- AP English Language (III)
- English III DE/STC English 1301 Composition (Fall Term)
- English III DE/STC English 1302 Composition II Rhetoric (Spring Term)
- English III Alternate
- English IV
- AP English Literature (IV)
- English IV Alternate
- Newcomers English Language Development (NELD) A & B
- Reading I-III
- Read 180
- Creative Writing
- Journalism I – IV
- Advanced Journalism I-III (Yearbook)
- Debate I-III
- College Preparatory ELA (HB 5)
- Speech-Communication Applications
ENGLISH LANGUAGE ARTS

ENGLISH I

Grade Placement …… 9
Credits ……………… 1
Prerequisite ……….Official promotion to or placement in high school

English I students study the author’s craft of literary and informational genres, compare genres, and use analysis of texts to improve their own writing. English I integrates the use of increasingly sophisticated language skills within the writing process. Students produce a variety of compositions using technology to revise, edit, and publish. Students create and deliver oral presentations that include the use of visual representations.

ENGLISH I PRE-AP

Grade Placement …… 9
Credits ……………… 1
Prerequisite………….Official promotion to or placement in high school

This course provides an in-depth study of the elements and genres of American and world literature. Students produce a variety of original texts including documented research and literary analysis with the use of technology to aid revising, editing, publishing, and research. They also present and critique oral communications using media literacy and analyze the purpose and effect on the audience.

Pre-course reading is required. The reading list is to be announced by teacher.

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES I

Grade Placement …… 9
Credits ……………… 1
Prerequisite ……….LPAC Recommendation

ESOL I enables non-English speaking students to acquire sufficient beginning vocabulary to develop comprehension skills to communicate with English speakers. Initial instruction focuses on listening and speaking while reading and writing skills are developed simultaneously as the student comprehends and speaks more English. Literacy development across content areas is essential in building academic skills in a second language and can accelerate the learning of both English language skills and higher order thinking skills.

ENGLISH I ALTERNATE

Grade Placement …… 9
Credits ……………… 1
Courses: English Language Arts

**ENGLISH LANGUAGE ARTS**

**Prerequisite** ……… Placement by ARD; students must have an IEP goal for any special education course

Communications will assist students in developing skills in the areas of expressive, receptive, written and/or symbolic representations of language. Attention is given to the ability to communicate effectively within the range of the student’s abilities (direct or through assistive devices). Students will integrate language in order to understand oral, written and/or symbolic communication. Oral, written and/or symbolic language will be used to express ideas, needs and inquiries. Communication will be examined in regard to social appropriateness, environmental cues and prompts, understanding generalizations in real life contexts, the responsibilities of independent living and participation in the community.

**ENGLISH II**

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<th>Grade Placement</th>
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<tbody>
<tr>
<td>Credits</td>
<td>1</td>
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<tr>
<td>Prerequisite</td>
<td>English I</td>
</tr>
</tbody>
</table>

English II emphasizes reading and writing across all genres. Students use the writing process to produce effective arguments that include information from primary and secondary sources. Communication will demonstrate complex syntax, advanced vocabulary, and increasingly accurate use of the conventions of written language. Students will read widely and critically, analyzing and responding to a variety of literature including American and world authors. They will present and critique oral communications including media literacy and analyze the purpose and the effect on the audience.

**ENGLISH II PRE-AP**

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<th>Grade Placement</th>
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<tbody>
<tr>
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<tr>
<td>Prerequisite</td>
<td>English I</td>
</tr>
</tbody>
</table>

English II Pre-AP includes advanced mechanics, syntax, usage and vocabulary. Students analyze discourse in persuasive and informational texts as well as the short documented essay. The course requires critical reading of classical, Medieval, Renaissance, and contemporary literature with emphasis on the writer’s style and purpose. Students will write measured literary and rhetorical analyses. Composition requires the use of technology to revise, edit, and publish essays and a documented research paper. Students will use technology and visuals to produce a variety of oral and media communications.

**ENGLISH FOR SPEAKERS OF OTHER LANGUAGES II**

<table>
<thead>
<tr>
<th>Grade Placement</th>
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<tr>
<td>Prerequisite</td>
<td>LPAC Recommendation</td>
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</tbody>
</table>
ESOL II enables the limited English-speaking student at the intermediate or advanced level to continue to increase and refine communication skills. ESOL students read a variety of texts for various purposes with an increasing level of comprehension, and they write in a variety of forms with increasing accuracy to address a specific purpose and audience in language arts and all content areas.

Grade Placement ...... 10  
Credits ................. 1  
Prerequisite .......... Placement by ARD; students must have an IEP goal for any special education course

Communications will assist students in developing skills in the areas of expressive, receptive, written and/or symbolic representations of language. Attention is given to the ability to communicate effectively within the range of the student’s abilities (direct or through assistive devices). Students will integrate language in order to understand oral, written and/or symbolic communication. Oral, written and/or symbolic language will be used to express ideas, needs, and inquiries. Communication will be examined in terms of social appropriateness, environmental cues and prompts, understanding generalizations in real life contexts, the responsibilities of independent living and participation in the community.

Grade Placement ...... 11  
Credits ................. 1  
Prerequisite .......... English II

English III involves an intensive study of advanced usage and vocabulary. The course will draw on American literature including literary texts, informational texts, and literary essays. Students write analytical essays, including a documented research paper. Students use technology to revise, edit, and publish compositions. Students will present and critique oral communications and multimedia products.

Grade Placement ...... 11  
Credits ................. 1  
Prerequisite .......... English II

AP Language and Composition emphasizes the analysis of a variety of literary and nonfiction texts with particular attention to the writer’s style, diction, syntax, argumentation and logic. Students record this analysis in compositions that use sophisticated syntax and vocabulary, effective use of proof, and control of the conventions of language. Students also write their own
refined arguments and synthesize arguments from different sources. Emphasis is on wide reading and analytic response in timed essays in preparation for the Advanced Placement Examination in Language and Composition. Students practice the research skills and long-term project management that will be required in college classes.

<table>
<thead>
<tr>
<th>ENGLISH III DUAL ENROLLMENT</th>
<th>TEA # A3220100 0140</th>
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<tbody>
<tr>
<td>STC English 1301 (Fall Term)</td>
<td>TEA # A3340100 0320</td>
</tr>
<tr>
<td>STC English 1302 (Spring Term)</td>
<td>(Year-long courses paired up with U.S. History 1301 &amp; History 1302)</td>
</tr>
</tbody>
</table>

*Grade Placement …… 11
Credits ……………… 2
Prerequisite ……..English I & English II, Meet criteria*

The English 1301 (Fall Term) course focuses on the development of effective communication through written discourse. Emphasis is placed on the process of writing, including prewriting, writing, stages of revision, and editing. Students will learn to employ various organizational strategies to expository essays and will analyze style, tone, and point of view in different literary genres. **Minimal tuition required.**

Students in English 1302 (Spring Term) will examine and employ rhetorical strategies and techniques of argumentation in written discourse; principles of logic will be discussed, and research and documentation techniques will be applied in the process of completing a research project. **Prerequisite: “C” or better in English 1301. Minimum tuition required.**

| ENGLISH III ALTERNATE | TEA # 3220307 ALT142 |

*Grade Placement …… 11
Credits ……………… 1
Prerequisite ……..Placement by ARD; students must have an IEP goal for any special education course*

Students will integrate language in order to understand oral, written and/or symbolic communication. Oral, written and/or symbolic language will be used to express needs, preferences, interests, ideas, and make inquiries. Communication will be examined in regard to social appropriateness, environmental cues and prompts, understanding generalizations in a real life context, the responsibilities of independent living and skills that relate directly to employment. Communications will explore job related language use as seen in employment services, interview skills, interpersonal skills, job search and the application process.

| ENGLISH IV | TEA # 03220400 0154 |

*Grade Placement …… 12
Credits ……………… 1*
**COURSE LISTINGS**

**ENGLISH LANGUAGE ARTS**

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*Prerequisite .......... English III*

English IV composition emphasizes persuasive and literary discourse, which demonstrates sophisticated syntax and vocabulary. Students write college admission essays, resumes, analysis of media and literature, and conduct multiple research projects with increasingly rigorous products. Students use technology to produce error free text and research for documentation. They read widely from a variety of genres in British and world literature, analyzing literary forms and interpreting the influence of history. Students present and critique oral communications that include visuals and other media.

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**AP ENGLISH LITERATURE & COMPOSITION (IV)**

**Grade Placement ...... 12**

**Credits ................. 1**

*Prerequisite .......... English III*

Using college level expectations, this course emphasizes wide reading and analysis of world literature including fiction, nonfiction, and poetry. Students analyze literary elements and writer’s style related to purpose, audience, and theme. Literary analysis will be a major focus of the composition strand, yet students will also compose college admissions essays and sophisticated research essays. Students practice the research skills and long-term project management that will be required in college classes as well as preparing for the Advanced Placement Examination in English Literature and Composition.

---

**ENGLISH IV ALTERNATE**

**Grade Placement ...... 12**

**Credits ................. 1**

*Prerequisite .......... Placement by ARD; students must have an IEP goal for any special education course*

Students will integrate language in order to understand oral, written and/or symbolic communication. Oral, written and/or symbolic language will be used to express needs, preferences, interests, ideas, and make inquiries. Communication will be examined in regard to social appropriateness, environmental cues and prompts, understanding generalizations in a real life context, the responsibilities of independent living and skills that relate directly to employment. Communications will explore job related language use as seen in employment services, interview skills, interpersonal skills, job search and the application process.

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**Newcomers English Language Development (NELD) A & B**

**Grade Placement ...... 9**

**Credits ................. 1**

*Prerequisite .......... Official promotion to or placement in high school*
These courses are designed to provide instructional opportunities for secondary level recent immigrant students with little to no English proficiency. The development of communicative competence occurs through targeted lessons based on students’ needs.

**READING I-III**

<table>
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<tr>
<th>Grade Placement</th>
<th>Credits</th>
<th>Prerequisite</th>
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</thead>
<tbody>
<tr>
<td>…… 9-12</td>
<td>1 Each</td>
<td>Official promotion to or placement in high school</td>
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</table>

Students apply a variety of word recognition strategies and build an extensive vocabulary through systematic word study. They read silently and orally with fluency and comprehension in increasingly demanding texts. Various strategies are used to comprehend, analyze, and evaluate texts. Students will create personal responses to a variety of texts reflecting diverse cultures and research topics of interest by reviewing and evaluating print and non-print sources.

**READ 180**

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<tr>
<th>Grade Placement</th>
<th>Credits</th>
<th>Prerequisite</th>
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<td>…… 10</td>
<td>1</td>
<td>Meet criteria</td>
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</table>

READ 180 is an intensive reading intervention program. Students are enrolled in the course if they meet program qualifications. The program directly addresses individual needs through differentiated instruction, adaptive and instructional software, high-interest literature, and direct instruction in reading, writing, and vocabulary skills.

**CREATIVE WRITING**

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<tr>
<th>Grade Placement</th>
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<tr>
<td>…… 10-12</td>
<td>1</td>
<td>Meet criteria</td>
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</table>

Creative Writing, a rigorous composition course, asks high school students to demonstrate their skill in such forms of writing as fictional writing, short stories, poetry, and drama. Students will discuss published and unpublished pieces of writing, develop peer and self-assessments for effective writing, and set their own goals as writers.
JOURNALISM I

Grade Placement …… 9-12  
Credits ................ 1  
Prerequisite .......... Official promotion to or placement in high school

This course on the principles and practices of journalism includes fact-gathering, developing interviewing skills and writing news stories in a variety of formats and for a variety of audiences and purposes with correct use of the conventions and mechanics of written English. In order to produce effective communications, visual and electronic media and other technology along with published work of professional journalists will be used as tools for learning. Students practice determining news coverage and editorial policy and learn how to select, crop and scale photographs. Students are also expected to plan, draft and complete written and/or visual communications on a regular basis in a variety of forms such as print, digital or online media. This course requires considerable time outside school hours as well as leadership and teamwork abilities.

JOURNALISM II-III

Grade Placement …… 9-12  
Credits .................. 1 Each  
Prerequisite .......... Previous journalism course

Students continue to develop and apply skills learned in previous newspaper production classes. They refine their skills on how to determine news coverage and editorial policy and how to select, crop and scale photographs. Students continue to plan, draft and complete written and/or visual communications on a regular basis in a variety of forms such as print, digital or online media. This course requires considerable time outside school hours as well as leadership and teamwork abilities.

ADVANCED JOURNALISM-YEARBOOK I

Grade Placement …… 9-12  
Credits .................. 1  
Prerequisite .......... Meet criteria

Students study and apply the journalistic skills and processes necessary to produce a yearbook. They develops skills in news judgment, fact gathering, photography, writing headlines and captions, graphic design and layout, proofing, editing, advertising, and creative writing. This course requires considerable time outside school hours as well as leadership and teamwork abilities.
### ADVANCED JOURNALISM-YEARBOOK II-III

<table>
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<tr>
<th>Grade Placement</th>
<th>9-12</th>
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<tbody>
<tr>
<td>Credits</td>
<td>1 Each</td>
</tr>
<tr>
<td>Prerequisite</td>
<td>Meet criteria</td>
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</tbody>
</table>

Students continue to develop the skills needed to produce a yearbook: evaluating news, fact gathering, photography, writing of headlines and captions, graphic design and layout, proofing, editing, advertising, basic publication management skills, and creative writing. This course requires considerable time outside school hours as well as leadership and teamwork abilities.

### DEBATE I-III

<table>
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<tr>
<th>Grade Placement</th>
<th>9-12</th>
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<tbody>
<tr>
<td>Credits</td>
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<td>Prerequisite</td>
<td>Meet criteria</td>
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</table>

Students in Debate examine the historical and contemporary role of debate in the democratic process. They apply standards to analyze and evaluate propositions and construct valid approaches to both affirmative and negative arguments. Students will use effective extemporaneous speaking skills and provide valid and constructive critiques of others. Many students will also participate in competitions.

### COLLEGE PREPARATORY ELA (HB 5)

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<th>Grade Placement</th>
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<tr>
<td>Credits</td>
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<tr>
<td>Prerequisite</td>
<td>Meet criteria</td>
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</tbody>
</table>

This course is created in partnership with at least one institute of higher education to assist students with meeting college readiness in ELA. It is designed for students at the 12th grade whose performance on coursework or college entrance exams indicates that they may need additional support to perform entry-level college coursework.

Students must obtain a 70 in the class and on the cumulative assessment of the course to receive credit for the course.
Communication Applications  TEA #03241400

Grade Placement ….. 9-12  
Credits ................. .5  
Prerequisite .......... None

Students will identify, analyze, develop, and evaluate communication skills needed for professional and social successes in interpersonal situations, group interactions, and personal and professional presentations.
Mathematics Courses

- Algebra I
- Algebra I Pre-AP
- Algebra I ESL
- Algebra I Alternate
- Geometry
- Geometry Pre-AP
- Geometry Alternate
- Mathematical Models with Applications
- Algebra II
- Algebra II Pre-AP
- Algebra II Alternate
- Pre-Calculus
- Pre-Calculus Pre-AP
- Calculus Pre-AP
- AP Calculus AB
- AP Calculus BC
- College Algebra DE/Pre-Calculus Pre-AP
- AP Statistics
- Advanced Quantitative Reasoning
- Independent Study In Mathematics
- College Preparatory Math (HB5)
- Digital Electronics (CTE Program Course)
This course deepens students’ understanding of relations and functions and expands their repertoire of familiar functions. Students use technological tools to represent and study the behavior of linear and beginning quadratic functions, among others. They learn to combine functions, express them in equivalent forms, compose them, and find inverses where possible. Algebra I also provides students with insights into mathematical abstraction and structure through the content strands of Foundations for Functions, Linear Functions and Quadratics and other Non Linear Functions.

This course covers the same concepts as Algebra I. The content is studied in greater depth and may include additional topics.

This course covers the same concepts as Algebra I but utilizes sheltered instruction to meet the needs of English as a second language learners.

This course is designed to reinforce math operations using a variety of practical, real life situations that facilitate the understanding of using mathematics in daily living exercises. Emphasis is on applying mathematics in the use of money, personal financial situations and solving home and work problems by using the concepts of fundamental mathematics. Students practice these strategies within the context of simulations designed to reinforce the understanding of basic operations, as well as the application of these operations within technological tools.
enhance understanding and accuracy.

GEOMETRY

Grade Placement …… 9-12  
Credits .................. 1  
Prerequisite .......... Algebra I

This course emphasizes geometric thinking and spatial reasoning; geometric figures and their properties; the relationship between geometry, other mathematics, and other disciplines; tools for geometric thinking; and underlying mathematical processes. Emphasis will be placed on area and volume as well as on identification and recognition of two and three-dimensional geometric figures and their properties.

GEOMETRY PRE-AP

Grade Placement …… 9-12  
Credits .................. 1  
Prerequisite .......... Algebra I

The subject content in this course will emphasize geometric thinking and spatial reasoning; geometric figures and their properties; the relationship between geometry, other mathematics, and other disciplines; tools for geometric thinking; and underlying mathematical processes. Emphasis will be placed on the identification and recognition of two and three-dimensional geometric figures, as well as a study of their properties and two-column deductive proofs of geometric properties. This course will extend into the basic properties of trigonometry as well as advanced algebra topics.

GEOMETRY ALTERNATE

Grade Placement …… 9-12  
Credits .................. 1  
Prerequisite .......... Algebra I; students must have an IEP goal for any special education course

This course is designed to reinforce math operations using a variety of practical, real life situations that facilitate the understanding of using mathematics in daily living exercises. Emphasis is on applying mathematics in the use of money, personal financial situations and solving home and work problems by using the concepts of fundamental mathematics. Students practice these strategies within the context of simulations designed to reinforce the understanding of basic operations, as well as the application of these operations within technological tools that enhance understanding and accuracy.
MATHMATICAL MODELS WITH APPLICATIONS

Grade Placement …… 10-12  
Credits ................. 1  
Prerequisite ............ Algebra I; Must be taken before Algebra II

This course is intended to reinforce, broaden, and extend the mathematical knowledge and skills acquired in Algebra I, in order to stretch students’ knowledge toward topics studied in Geometry and Algebra II. The primary purpose of this course is to use mathematics as a tool to model real-world phenomena in science, finance, music, and art.

ALGEBRA II

Grade Placement …… 10-12  
Credits .................. 1  
Prerequisite ........... Algebra I

Students in this course will cover topics such as algebraic thinking and symbolic reasoning; functions, equations, and their relationships; relationships between algebra and geometry; tools for algebraic thinking; and underlying mathematical processes.

ALGEBRA II PRE-AP

Grade Placement …… 10-12  
Credits .................. 1  
Prerequisite ........... Algebra I

This course covers the same concepts as Algebra II. The content is studied in greater depth and may include additional topics.

ALGEBRA II ALTERNATE

Grade Placement …… 9-12  
Credits .................. 1  
Prerequisite ........... Algebra I; students must have an IEP goal for any special education course

This course is designed to reinforce math operations using a variety of practical, real life situations that facilitate the understanding of using mathematics in daily living exercises. Emphasis is on applying mathematics in the use of money, personal financial situations and solving home and work problems by using the concepts of fundamental mathematics. Students practice these strategies within the context of simulations designed to reinforce the understanding of basic operations, as well as the application of these operations within technological tools that
enhance understanding and accuracy.

**PRE-CALCULUS**

*Grade Placement ……… 11-12*
*Credits ……………… 1*
*Prerequisite ……….. Algebra I & II, and Geometry*

In this course, students use symbolic reasoning and analytical methods to represent mathematical situations, to express generalizations, and to study mathematical concepts and the relationships among them. Students use functions, equations, and limits as useful tools for expressing generalizations and as means for analyzing and understanding a broad variety of mathematical relationships. Students also use functions as well as symbolic reasoning to represent and connect ideas in geometry, probability, statistics, trigonometry, and calculus and to model physical situations.

**PRE-CALCULUS PRE-AP**

*Grade Placement ……… 11-12*
*Credits ……………… 1*
*Prerequisite ……….. Algebra I II, and Geometry*

This course covers the concepts studied in Pre-calculus. Content is studied in greater depth and may include additional topics.

**INDEPENDENT STUDY IN MATHEMATICS**

*Grade Placement ……… 10-12*
*Credits ……………… 1*
*Prerequisite ………. Geometry, Algebra II*

This course provides students the opportunity to extend their mathematical understanding beyond the Algebra II level in a specific area or areas of mathematics, such as theory of equations, number theory, non-Euclidean geometry, advanced survey of mathematics, or history of mathematics.

**AP CALCULUS AB**

*Grade Placement ……… 11-12*
*Credits ……………… 1*
*Prerequisite ……….. Pre-Calculus*

This course covers advanced mathematical topics including elementary differential and integral
calculus. AP Calculus AB is approximately equivalent to a one semester Calculus course at the college level. Topics of study will be selected from limits and continuity, the derivative, the fundamental theorem of calculus, special functions, techniques of integration, partial derivatives, and multiple-integration. This course is designed to prepare students for the College Board Advanced Placement Exam.

**AP CALCULUS BC**

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<th>Grade Placement</th>
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<tr>
<td>Credits</td>
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<tr>
<td>Prerequisite</td>
<td>AP Calculus AB</td>
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</table>

This course centers on the calculus of functions of a single variable and includes all topics covered in Calculus AB plus additional topics. Both courses represent college-level mathematics for which most colleges grant advanced placement and credit. The content of Calculus BC is designed to qualify the student for placement and credit in a course that is one course beyond that granted for Calculus AB.

**COLLEGE ALGEBRA DUAL ENROLLMENT/PRE-CALCULUS PRE-AP**

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<th>Grade Placement</th>
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<tr>
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<td>Prerequisite</td>
<td>Meet Criteria</td>
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</tbody>
</table>

Students who successfully complete this dual enrollment class may receive college algebra credit and high school pre-calculus credit. This course is the study of functions, their graphs and their applications including but not limited to: linear, quadratic, cubic and higher degree polynomial functions, rational, logarithmic, exponential, square root, trigonometric and step functions. In addition, it includes the study of linear and non-linear systems of equations and inequalities, trigonometric equations and trigonometric identities, sequences and series, matrices, determinants, and applications. **Minimal tuition required.**

**AP STATISTICS**

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<tbody>
<tr>
<td>Credits</td>
<td>1</td>
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<tr>
<td>Prerequisite</td>
<td>Geometry and Algebra II</td>
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</table>

The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to the four broad conceptual themes, which follow: 1) Exploring data - observing patterns and departures from patterns; 2) Planning a study - deciding what and how to measure; 3) Anticipate patterns - producing models using probability and simulation; and 4) Statistical Inference - confirming
models. This course prepares students for the AP Statistics exam.

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<tr>
<th>ADVANCED QUANTITATIVE REASONING</th>
<th>TEA # 3102510 0389</th>
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<tbody>
<tr>
<td>Grade Placement …… 10-12</td>
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<tr>
<td>Credits ........................ 1</td>
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<tr>
<td>Prerequisite ...........Geometry and Algebra II</td>
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</table>

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

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<tr>
<th>COLLEGE PREPARATORY MATH (HB5)</th>
<th>TEA # CP111200 P924</th>
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<tr>
<td>Grade Placement …… 12</td>
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<tr>
<td>Credits ........................ 1</td>
<td></td>
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<tr>
<td>Prerequisite ...........Meet criteria</td>
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</table>

This course is created in partnership with at least one institute of higher education to assist students with meeting college readiness in math. It is designed for students at the 12th grade whose performance on coursework or college entrance exams indicates that they may need additional support to perform entry-level college coursework.

Students must obtain a 70 in the class and on the cumulative assessment of the course to receive credit for the course.

<table>
<thead>
<tr>
<th>DIGITAL ELECTRONICS PRE-AP-PLTW PROGRAM COURSE</th>
<th>TEA # 13037600</th>
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<tbody>
<tr>
<td>Grade Placement …… 11-12</td>
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<tr>
<td>Credits ................................ 1 Math Credit Starting with Class of 2014 and Beyond</td>
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<tr>
<td>Pre-Requisite ........................ Principles of Engineering</td>
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</table>

From smart phones to appliances, digital circuits are all around us. This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry including logic gates, integrated circuits, and programmable logic devices.
Science Courses

- Integrated Physics & Chemistry
- Integrated Physics & Chemistry ESL
- Integrated Physics & Chemistry Pre-AP
- Biology
- Biology ESL
- Biology Pre-AP
- Biology Dual Enrollment/STC General Biology 1408
- Biology Alternate
- Chemistry
- Chemistry Pre-AP
- Chemistry AP
- Chemistry Dual Enrollment/STC General Chemistry
- Chemistry Alternate
- Physics
- AP Physics I
- Physics Alternate
- Environmental Systems
- Environmental Science Pre-AP
- AP Environmental Science
- Anatomy & Physiology (CTE Program Course)
- Anatomy & Physiology Pre-AP (CTE Program Course)
- Scientific Research & Design (CTE Program Course)
- Scientific Research & Design Pre-AP (CTE Program Course)
- Medical Microbiology (CTE Program Course)
- Medical Microbiology Pre-AP (CTE Program Course)
- Forensic Science (CTE Program Course)
- Forensic Science Pre-AP (CTE Program Course)
- Advanced Animal Science (CTE Program Course)
- Principles of Engineering (CTE Program Course)
**INTEGRATED PHYSICS & CHEMISTRY (IPC)**  
TEA # 03060201  0402

**Grade Placement …… 9**  
**Credits ………………… 1**  
**Prerequisite ……….. Official promotion to or placement in high school**

In this course, students use scientific methods and critical thinking to study a variety of physical science concepts. Major topics include force, motion, energy and structure, and properties of matter. Texas law requires at least 40% lab and field work.

**INTEGRATED PHYSICS & CHEMISTRY (IPC) ESL**  
TEA # 03060201  0406

**Grade Placement …… 9**  
**Credits ………………… 1**  
**Prerequisite ……….. Official promotion to or placement in high school**

This course covers the same concepts as IPC but utilizes sheltered instruction to meet the needs of English as a second language learners. Texas law requires at least 40% lab and field work.

**INTEGRATED PHYSICS & CHEMISTRY (IPC) PRE-AP**  
TEA # 03060201  0400

**Grade Placement …… 9**  
**Credits ………………… 1**  
**Prerequisite ……….. Official promotion to or placement in high school**

This course covers the same concepts as IPC. The content is studied in greater depth and may include additional topics. Texas law requires at least 40% lab and field work.

**BIOLOGY**  
TEA # 03010200  0410

**Grade Placement …… 9-10**  
**Credits ………………… 1**  
**Prerequisite ……….. Official promotion to or placement in high school**

In this course, students use scientific methods and critical thinking to study a variety of biology concepts. Topics include cell structure and function, genetics, evolutionary theory, biological processes and systems, and environmental systems. Texas law requires at least 40% lab and field work.

**BIOLOGY I ESL**  
TEA # 03010200  0414
COURSE DESCRIPTIONS

Science

Credits ................. 1  
Prerequisite ............ Official promotion to or placement in high school

This course covers the same concepts as Biology but utilizes sheltered instruction to meet the needs of English as a second language learners. Texas law requires at least 40% lab and field work.

BIOLOGY PRE-AP  
Grade Placement ...... 9-10  
Credits ................. 1  
Prerequisite ............ Official promotion to or placement in high school

This course covers the same concepts as Biology. The content is studied in greater depth and may include additional topics. Texas law requires at least 40% lab and field work.

GENERAL BIOLOGY I DUAL ENROLLMENT  
Grade Placement ...... 11-12  
Credits ................. 1  
Prerequisite .......... Biology, Chemistry; Meet Criteria

In this course, students learn about the fundamental principles of living organisms including physical and chemical properties of life, the transfer of energy through metabolic systems, cellular organization and function, cell division, genetics and evolution. This course is offered through South Texas College. Students taking this course will receive 4 college credit hours with a grade of “C” or better.

GENERAL BIOLOGY II DUAL ENROLLMENT  
Grade Placement ...... 11-12  
Credits ................. 1  
Prerequisite .......... Biology I Dual Enrollment with grade of “C” or better

This course is a continuation of Biology 1408. Topics will include bio-diversity, animal structures, plant structures, ecology, and animal behavior. Students taking this course will receive 4 college credit hours with a grade of “C” or better. Minimal tuition required.

BIOLOGY ALTERNATE  
Grade Placement ...... 9-12

37
Credits .................... 1  
Prerequisite ............ Placement by ARD; students must have an IEP goal for any special education course

This course covers science-based concepts related specifically to independent daily living and employment. Attention is given to relating science to home and job practices that foster the understanding of student’s roles and responsibilities in the care and operation of both facilities. Activities are “hands-on” experiences with an emphasis on cooperative learning strategies.

CHEMISTRY

Grade Placement …….. 10-12  
Credits .................... 1  
Prerequisite .............Biology, Algebra I

In this course, students use scientific methods and critical thinking to study a variety of chemistry concepts. Topics include matter, the periodic table, atomic structure, chemical bonding and reactions, thermochemistry, and solution chemistry. Texas law requires at least 40% lab and field work.

CHEMISTRY PRE-AP

Grade Placement …….. 10-12  
Credits .................... 1  
Prerequisite .............Biology & Algebra I

This course covers the same concepts as Chemistry. The content is studied in greater depth and may include additional topics. Texas law requires at least 40% lab and field work.

CHEMISTRY AP

Grade Placement …….. 11-12  
Credits .................... 1  
Prerequisite .............Chemistry, Algebra II

This course is designed following the Chemistry Advanced Placement (AP) Course Description published by The College Board. Along with lab exercises and report writing, the course topics will include stoichiometry; properties of gases, liquids, solids, and solutions; chemical equilibrium, chemical thermodynamics, atomic and molecular structure, chemical kinetics, periodic properties, and organic chemistry. This course prepares students for the Chemistry AP exam.
CHEMISTRY ALTERNATE

Grade Placement …… 9-12
Credits ……………… 1
Prerequisite ………. Placement by ARD; students must have an IEP goal for any special education course

This course uses lab and activity-based learning to introduce the observation and understanding of chemical laws, concepts and properties. The course employs an interdisciplinary approach to deepen students’ understanding of a variety of topics that include characteristics of matter, the Periodic Table, chemical bonding, gas laws, solution chemistry and thermo chemistry. Students will investigate how chemistry is an integral part of our daily lives.

PHYSICS

Grade Placement …… 10-12
Credits ……………… 1
Prerequisite ………..Chemistry

In this course, students use scientific methods and critical thinking to study a variety of physics concepts. Topics include the study of force and motion, types of forces, momentum and energy, and waves and quantum phenomena. Texas law requires at least 40% lab and field work.

PHYSICS PRE-AP

Grade Placement …… 11-12
Credits ……………… 1
Prerequisite ………..Chemistry

This course covers the same concepts as Physics. The content is covered in greater depth and may include additional topics. Texas law requires at least 40% lab and field work.

AP PHYSICS I

Grade Placement …… 11-12
Credits ……………… 1
Prerequisite ………..Physics, Geometry, Algebra II

This course is designed following the Physics Advanced Placement (AP) Course Description published by The College Board. Topics include graphing motion, kinematics in one and two dimensions, Newton’s laws of motion, Newton’s universal law of gravity, conservation of energy and momentum, collisions, thermodynamics, electrostatics, electric circuits, magnetic fields and electromagnetism, waves and light, quantum mechanics, nuclear physics, and laboratory experiences for each of the topics. This course prepares students for the Physics AP
PHYSICS ALTERNATE

Grade Placement …… 9-12
Credits .................. 1
Prerequisite ............ Placement by ARD; students must have an IEP goal for any special education course

This course uses field investigations and activity-based learning in an interdisciplinary approach to deepen students’ understanding of a variety of topics that include: laws of motion; changes within physical systems and conservation of energy and momentum; forces; and characteristics and behavior of waves. Students will investigate how physics is an integral part of our daily lives.

ENVIRONMENTAL SYSTEMS

Grade Placement …… 10-12
Credits .................. 1
Prerequisite .......... None

This course serves as an introduction to broad aspects of environmental science and environmental studies. This course examines ecological relationships, food chains and food webs, the flow of energy and cycles of an ecosystem, pollution, weather patterns, water resource uses, and impact of population growth on natural resources, agriculture and soil conservation, alternative energy resources, aquatic environments and renewable and non-renewable sources for power generation. Emphasis is placed on a holistic approach to environmental science using laboratory exercises.

ENVIRONMENTAL SCIENCE PRE-AP

Grade Placement …… 10-12
Credits .................. 1
Prerequisite ..........Biology, Chemistry, & Algebra II

Study of a variety of topics that include: biotic and abiotic factors in habitats, ecosystems and biomes, interrelationships among resources and an environmental system, sources and flow of energy through an environmental system, relationship between carrying capacity and changes in populations and ecosystems, and changes in environments. Students will plan and conduct investigations of the natural world. Students will also study systems such as: cycles, structures, and processes. In addition students should analyze a system in terms of its components and how these components relate to each other, to the whole, and to the external environment.

AP ENVIRONMENTAL SCIENCE

Grade Placement …… 10-12
Credits .................. 1
Prerequisite ..........Biology, Chemistry, & Algebra II

Study of a variety of topics that include: biotic and abiotic factors in habitats, ecosystems and biomes, interrelationships among resources and an environmental system, sources and flow of energy through an environmental system, relationship between carrying capacity and changes in populations and ecosystems, and changes in environments. Students will plan and conduct investigations of the natural world. Students will also study systems such as: cycles, structures, and processes. In addition students should analyze a system in terms of its components and how these components relate to each other, to the whole, and to the external environment.
COURSE DESCRIPTIONS

**ANATOMY & PHYSIOLOGY**  
**Grade Placement …… 11-12**  
**Credits ……………… 1**  
**Prerequisite ………..Biology, Chemistry, Physics & Algebra II**

This course is designed following the *Environmental Science Advanced Placement (AP) Course Description* published by The College Board. The topics covered include the Earth’s systems and global changes, matter and energy in the environment, the biosphere, atmosphere, hydrosphere, land resources, energy resources, population and population dynamics, human health, and the environment and society. The AP Environmental Science exam is offered in the spring and is designed to offer college level skills and college credit if successfully completed.

**ANATOMY & PHYSIOLOGY PRE-AP**  
**Grade Placement …… 11-12**  
**Credits ……………… 1**  
**Prerequisite ………..Biology, Chemistry & Physics**

This course focuses on the structure and function of cells, tissues, and organs of the following systems: Integumentary, Skeletal, Muscular, Nervous, Circulatory, Respiratory, Digestive, Urinary, Reproductive, and Endocrine systems. Consideration is given to energy needs and the processes through which these needs are fulfilled, response to internal and external forces of the human body, processes to maintain homeostasis and metabolism, homeostatic imbalances, electrical conduction processes and interactions, environmental factors affecting the human body, electrolyte and fluid balance, reproduction, growth and embryonic development of the human body.

**SCIENTIFIC RESEARCH AND DESIGN**  
**Grade Placement …… 11-12**  
**Credits ……………… 1**  
**Prerequisite ………..Biology, Chemistry, & Physics**

This course covers the processes of science to include content that is innovative and detailed. Students conduct in-depth guided or independent research in any of the science disciplines. Their research must be presented to an appropriate audience. Students enrolled in this course should show an aptitude for math.
SCIENTIFIC RESEARCH AND DESIGN PRE-AP

Grade Placement ……. 11-12
Credits ……………… 1
Prerequisite ……….. Biology, Chemistry, & Physics

This course covers the same concepts as Scientific Research and Design. The content is studied in greater depth and may include additional topics. This course is highly recommended for students interested in pursuing a career in science, technology, engineering, and mathematics (STEM) occupations.

MEDICAL MICROBIOLOGY

Grade Placement ……. 11 - 12
Credits ……………… 1
Prerequisite ……….. Biology, Chemistry & Physics

In this course, students explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases.

MEDICAL MICROBIOLOGY PRE AP

Grade Placement ……. 11 - 12
Credits ……………… 1
Prerequisite ……….. Biology, Chemistry & Physics

This course covers the same concepts as Medical Microbiology. The content is studied in greater depth and may include additional topics. This course is highly recommended for students interested in pursuing a career in health occupations.

FORENSIC SCIENCE

Grade Placement …….11- 12
Credits ……………… 1
Prerequisite ……….. Biology, Chemistry & Physics

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

| FORENSIC SCIENCE PRE-AP | TEA # 13029500 0910 |

**Grade Placement ……..11- 12**
**Credits ……………….. 1**
**Prerequisite ………..Biology, Chemistry & Physics**

This course covers the same concepts as Forensic Science. The content is studied in greater depth and may include additional topics. This course is highly recommended for students interested in pursuing a career in law, public safety, corrections, and security occupations.

| ADVANCED ANIMAL SCIENCE | TEA # 13000700 0525 |

**Grade Placement …….11 - 12**
**Credits …………………. 1 Science Credit**
**Pre-Requisite ………… Biology, Chemistry, Physics, and One Other Credit from the Animal Systems Pathway**

This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences.

| PRINCIPLES OF ENGINEERING  PRE-AP- PLTW PROGRAM COURSE | TEA # 13037500 |

**Grade Placement …….. 10-12**
**Credits ……………………… 1 Science Credit Starting with Class of 2014 and Beyond**
**Pre-Requisite ………….. Introduction to Engineering Design**

Through problems that engage and challenge, students explore a broad range of engineering topics including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.
Social Studies Courses

- World Geography
- World Geography Pre-AP
- World Geography Alternate
- World History
- World History Pre-AP
- AP World History
- World History Alternate
- United States History
- AP United States History
- U.S. History Dual Enrollment/STC History 1301 (Fall Term)
- U.S. History Dual Enrollment/STC History 1302 (Spring Term)
- United States History Alternate
- United States Government
- AP US Government and Politics
- United States Government Dual Enrollment/STC Government 2301
- United States Government Alternate
- Economics
- AP Macroeconomics
- Macroeconomics Dual Enrollment/STC Economics 2301
- Economics Alternate
- AP European History
- Sociology Dual Enrollment/STC Sociology 1301
- Psychology Dual Enrollment/STC Psychology 2301
WORLD GEOGRAPHY

Grade Placement …… 9
Credits ................... 1
Prerequisite ............ Official promotion to or placement in high school

This course focuses on the relationships among people, places, and environments that result in patterns on the Earth’s surface. Students use the tools and methods of geography to study the principal regions in the world—the Americas; Europe and Eurasia; North Africa and the Middle East; Sub-Saharan Africa; Asia, Australia and Antarctica.

WORLD GEOGRAPHY PRE-AP

Grade Placement …… 9
Credits ................... 1
Prerequisite ............ Official promotion to or placement in high school

This course covers the same concepts as World Geography. The content is studied in greater depth and may include additional topics.

WORLD GEOGRAPHY ALTERNATE

Grade Placement …… 9-12
Credits ................... 1
Prerequisite ............ Placement by ARD; Students must have an IEP goal for any special education course

This course focuses on the relationships among people, places, and environments that result in patterns on the Earth’s surface. The course employs an interdisciplinary approach to deepen students’ understanding of the world’s people and to understand the regions in the world; the Americas; Europe and Eurasia; North Africa and the Middle East; Sub-Saharan Africa; South, East, Southeast Asia, Australia and Antarctica.

WORLD HISTORY

Grade Placement …… 10
Credits ................... 1
Prerequisite ............ Official promotion to or placement in high school

This course focuses on the development of human society from prehistoric to modern times. Emphasis is placed on major events, world leaders, economic and political institutions, technological innovations, and the philosophical and religious beliefs that have shaped the modern world. The course employs an interdisciplinary approach to deepen students’
understanding of the world’s people, today and in the past.

**WORLD HISTORY PRE-AP**  
TEA # 03340400 0310

*Grade Placement …… 10*
*Credits ……………… 1*
*Prerequisite ……….. Official promotion to or placement in high school*

This course covers the same concepts as World History. The content is studied in greater depth and may include additional topics.

**AP WORLD HISTORY**  
TEA # A3370100 0311

*Grade Placement …… 10*
*Credits ……………… 1*
*Prerequisite ……….. Official promotion to or placement in high school*

This course is a college-level survey of world history from early times to the present. The course emphasizes intellectual-cultural, political-diplomatic, and social-economic history. The content is presented in depth and at an accelerated rate. It includes the methods of historical analysis, college-level reading, document analysis, and interdisciplinary research and writing projects. AP students prepare to take the Advanced Placement examination in May for possible college credit.

**WORLD HISTORY ALTERNATE**  
TEA # 3340407 ALT312

*Grade Placement …… 9-12*
*Credits ……………… 1*
*Prerequisite ……….. Placement by ARD; Students must have an IEP goal for any special education course*

This course defines the rights, privileges and responsibilities of students within their school, community and employment settings. Concepts include voting, laws, and consequences of unlawful behavior, honesty, integrity, community volunteerism, rules and regulations. Students are instructed on how to be productive and safe in a variety of community situations, including employment. Students will become familiar with the basic concepts of personal responsibility related to employability and being a productive, contributing member of a business, community and/or organization.

**UNITED STATES HISTORY**  
TEA # 03340100 0322

*Grade Placement …… 11*
*Credits ……………… 1*
*Prerequisite ……….. Official promotion to or placement in high school*
This course focuses on U.S. history from Reconstruction to the present. Students analyze major themes and events in U.S. history, leaders, economic and political institutions, technological innovations, and the philosophies that affect the United States today. The course uses an interdisciplinary approach to deepen students’ understanding of the people and issues that have shaped the United States today.

**AP UNITED STATES HISTORY**

Grade Placement …… 11  
Credits ……………… 1  
Prerequisite ………. **Official promotion to or placement in high school**

This course is a college-level survey of U.S. history from Exploration to the present. The course content is presented in depth and at an accelerated pace. It includes a study of the methods of historical analysis, college-level readings, document analysis, and interdisciplinary research and writing projects. AP students prepare to take the Advanced Placement examination in May for possible college credit.

**UNITED STATES HISTORY DUAL ENROLLMENT**

Grade Placement …… 11  
Credits ……………… 2  
Prerequisite ………. **Meet Criteria**

The **History 1301 (Fall Term)** is a survey of the political, social, economic, military, cultural and intellectual history of the United States from the discovery of America to the Civil War. **Minimal tuition required.**

The **History 1302 (Spring Term)** is a survey of the political, social, economic, military, cultural and intellectual history of the United States from reconstruction to the present. **Prerequisite:** “D” or better in History 1301. **Minimal tuition required.**

**UNITED STATES HISTORY ALTERNATE**

Grade Placement …… 9-12  
Credits ……………… 1  
Prerequisite ………. **Placement by ARD; Students must have an IEP goal for any special education course**
This course focuses on U.S. history from Reconstruction to the present. Students analyze major themes and events in U.S. history, leaders, economic and political institutions, technological innovations, and the philosophies that affect the United States today. Students are accessing the curriculum through prerequisite skills.

**UNITED STATES GOVERNMENT**  
Grade Placement …… 12  
Credits ……………… ½  
**Prerequisite ………..World History & U.S. History**

This course focuses on structures of power and authority in American society. Students study the U.S. Constitution; the roles and responsibilities of the state and national governments; the influence of political parties and other participants in the political system; and the rights and responsibilities of citizens. Through discussions of current issues, students examine the impact of government policies on the lives of U.S. citizens.

**AP UNITED STATES GOVERNMENT AND POLITICS**  
Grade Placement …… 12  
Credits ……………… ½  
**Prerequisite ………..World History & U.S. History**

This course is a college-level introduction to American government. The course content is presented in depth and at an accelerated pace. Students use the tools and methods of political science to analyze issues in U.S. politics. They read college-level texts, analyze documents, and conduct formal research and writing projects. AP students prepare to take the Advanced Placement examination in May for possible college credit.

**UNITED STATES GOVERNMENT DUAL ENROLLMENT**  
Grade Placement …… 12  
Credits ……………… ½  
**Prerequisite ………..Meet Criteria**

This course provides an introduction to the theory and practice of politics and government in the United States at the national and state levels. Topics include political theory, the United States and Texas constitutions, federalism, and the legislative, executive and judicial institutions of government. **Minimal tuition required.**
COURSE DESCRIPTIONS
SOCIAL STUDIES

UNITED STATES HISTORY ALTERNATE

Grade Placement …… 9-12
Credits ……………… 1
Prerequisite ………. Placement by ARD; Students must have an IEP goal for any special education course

This course focuses on U.S. history from Reconstruction to the present. Students analyze major themes and events in U.S. history, leaders, economic and political institutions, technological innovations, and the philosophies that affect the United States today. Students are accessing the curriculum through prerequisite skills.

ECONOMICS

Grade Placement …… 12
Credits ……………… ½
Prerequisite ………. World History & U.S. History

This course focuses on the production, distribution, and consumption of goods and services in the U.S. The course emphasizes fundamental principles of market economics, and students learn how markets and prices allocate scarce resources. Students study consumer behavior, the roles of business and government in the economy, the banking system, international trade, and other topics. Through discussions of current economic issues, students deepen their understanding of the U.S. economy.

AP MACROECONOMICS

Grade Placement …… 12
Credits ……………… ½
Prerequisite ………. World History & U.S. History

This course is a college-level introduction to the principles of macroeconomics—the study of national economic systems. It includes Classical and Keynesian analysis of aggregate supply and demand and other issues in the U.S. economy such as fiscal and monetary policy, international trade, inflation, employment, and growth and productivity in the economy as a whole. Students use the methods of economics, college level readings, data analysis, and formal research and writing projects to prepare for the Advanced Placement in May examination for possible college credit.

MACROECONOMICS DUAL ENROLLMENT
STC Economics 2301

Grade Placement …… 12
Credits ……………… ½
This course introduces basic macroeconomic concepts and methods. Primary emphasis is placed on supply and demand, income determination, money and banking, unemployment, and public debate. *Minimal tuition required.*

**AP EUROPEAN HISTORY**

**Grade Placement:** 11-12  
**Credits:** 1  
**Prerequisite:** World Geography & World History

This course is designed as a college-level survey course that introduces students to the rich political, cultural, social, and intellectual heritage of Europe beginning in 1450 through the present. It is designed to prepare students to be successful on the AP European History Exam while providing them the opportunity to develop the skills and knowledge that will form a useful foundation for their continuing educational endeavors.

**PSYCHOLOGY DUAL ENROLLMENT**

**Grade Placement:** 11-12  
**Credits:** ½  
**Prerequisite:** Meet Criteria

This course is a survey of the major topics in psychology. It introduces the study of behavior and the factors that determine and affect behavior. *Minimal tuition required.*

**SOCIOLOGY DUAL ENROLLMENT**

**Grade Placement:** 11-12  
**Credits:** 1  
**Prerequisite:** Meet Criteria

This is an introduction to the scientific study of human group behavior. Major areas of study in sociology include the basic structure of human society and of smaller groups, transmission of culture and regulating behavior, acquisition of the social self, violation of norms, stratification by class, race-ethnicity, gender, age, major social institutions, population dynamics, and socio-cultural change. *Minimal tuition required.*
Languages Other Than English

- Spanish I - E
- Spanish I - S
- Spanish II - E
- Spanish II - S
- Spanish III - E
- Spanish III - S
- AP Spanish Language and Culture
- AP Spanish Literature and Culture
- French I
- French II
- French III
- French III Pre-AP
- AP French Language and Culture
SPANISH I – E (ENGLISH SPEAKERS)  
Grade Placement …… 9-12  
Credits ................. 1  
Prerequisite ..........Official promotion to or placement in high school

This course is designed to develop basic reading and communication skills. It introduces students to basic vocabulary, indicative tenses, and cultural/historical information from the Spanish speaking countries. This course is open to non-Spanish speakers only.

SPANISH I – S (SPANISH SPEAKERS)  
Grade Placement …… 9-12  
Credits ................. 1  
Prerequisite ..........Official promotion to or placement in high school

This course is designed to enable students to attain a measurable degree of communicative competency and proficiency in each of the language skills. It reinforces simple vocabulary, indicative tenses, and basic communication skills. This course is open to students who have some understanding of the Spanish language.

SPANISH II – E (ENGLISH SPEAKERS)  
Grade Placement …… 9-12  
Credits ................. 1  
Prerequisite ..........Spanish I-E

This course is a continuation of Spanish I-E with a review of the indicative tenses, and a variety of vocabulary that will be used to attain a measurable degree of communicative competency and proficiency in each of the language skills. This course is open to non-Spanish speakers only.

SPANISH II – S (SPANISH SPEAKERS)  
Grade Placement …… 9-12  
Credits ................. 1  
Prerequisite ..........Spanish I-S

Spanish II-S is a continuation of Spanish I-S with an in-depth study of listening, speaking, reading and writing of the language. Students are required to have the ability to express themselves orally and through written compositions. Materials of an awareness of history and culture are provided. Students are able to practice conversational Spanish through oral activities such as dialogues, role-plays, poetry recitation and short story writing as well as class presentations. This course is designed to make the transition to Spanish III and/or Spanish AP
Spanish III-E refines listening, speaking, reading, writing and grammar skills. Emphasis will be provided on the culture and history of Spanish-speaking countries as well as traditions and celebrations using a wide variety of media sources available such as newspapers, short-stories, videos, music and/or magazines. Students must be able to express themselves well in both written and oral Spanish. Students must have completed or tested out of both Spanish I-E and Spanish II-E.

Spanish III-S refines listening, speaking, reading and writing skills. Grammar and literature are studied in detail. Emphasis will be provided on the culture and history of the people of Spanish-speaking countries. Students must be able to express themselves well both in written and oral Spanish. A student must have completed or tested out of both Spanish I-S and Spanish II-S.

This course prepares students for the College Board AP Spanish Language and Culture examination, which consists of multiple choice questions on listening comprehension, vocabulary, structure and reading comprehension, as well as free-response sections that tests the students’ ability to use interpersonal and presentational modes of communicating in both writing and speaking.
This course prepares students for the College Board AP Spanish Literature and Culture examination which consists of free-response questions on listening comprehension, reading comprehension and literary analysis, as well as free-response essays on required authors, and poetry analysis.

**FRENCH I**

**Grade Placement** …… 9-12
**Credits** ……………… 1
**Prerequisite** ………..Official promotion to or placement in high school

This is a full-year course designed to develop the ability to understand, read, speak, and write the French language. Time will be spent on conversation, reading, and writing, and learning about culture structure and grammar both in their native language as in French.

**FRENCH II**

**Grade Placement** …… 9-12
**Credits** ……………… 1
**Prerequisite** ………..French I

This is a continuation of French I. This course emphasizes more conversational French in class. Reading, writing, listening and comprehension of the French language is stressed. Students develop an understanding for morphology and syntax. Students must have been in French I class prior to this course. A student must have completed or tested out of French I prior to this course.

**FRENCH III**

**Grade Placement** …… 10-12
**Credits** ……………… 1
**Prerequisite** ………..French II

The emphasis of French level three is the strengthening of the basic language skills with a concentration on communication. The student will read and discuss a variety of authentic selections in French. The level-three honors French student will read and discuss more complex literary selections. Independent use of the language will be fostered through writing and conversational opportunities. A student must have completed or tested out of both French I and French II prior to this course.
Prerequisite ..........French II

The emphasis of French level three is the strengthening of the basic language skills with a concentration of communication both verbal and written. The student will read and discuss a variety of authentic selections in French. The level-three honors French student will read and discuss more complex literary selections. Independent use of the language will be fostered through writing and conversational opportunities. A student must have completed or tested out of both French I and French II prior to this course.

Grade Placement ...... 11-12
Credits .................... 1
Prerequisite ..........French III

This course prepares students for the College Board AP French Language and Culture examination, which consists of multiple-choice questions in reading and listening and free-response questions in writing and speaking. The AP French Language and Culture examination evaluates both understanding and the ability to respond to written and spoken French within six major cultural themes.
Fine Art Courses

- Art I
- Design I
- Design II
- Drawing I
- Drawing II
- Human Portrait and Human Figure Drawing
- Painting I
- Painting II
- Photoshop
- Sculpture I
- Sculpture II
- Art Appreciation Dual Enrollment
- Theater Arts I
- Theater Production I – IV
- Theater/Drama Appreciation Dual Enrollment
- Band I – IV
- Applied Music I – II
- Choir I – IV
- Concert Chorale I – IV
- Contest Choir I-IV
- Dance I – IV
- Diamonds I – IV
- Flag Corps
- Folklorico I – IV
- Mariachi
**FINE ARTS**

**ART I**

*Grade Placement …… 9-12*
*Credits ……………… 1*
*Prerequisite ……….Official promotion to or placement in high school*

This course lays the basic foundation for learning art processes, procedures, theories, history, and art judgment. The approach is experimental in use of materials (drawing, painting, printmaking, fibers, ceramics, sculpture, jewelry, photography) but structured to provide students a strong foundation in design, drawing, and vocabulary.

**DESIGN I**

*Grade Placement …… 9-12*
*Credits ……………… 1*
*Prerequisite ……….Official promotion to or placement in high school*

Utilizing the elements and principles of design, and working in various media, students in this course develop an understanding of the various organizational possibilities available in designing. The focus of this course is learning and applying professional presentation skills, craftsmanship, the development of ideas, problem-solving skills and understanding design concepts.

**DESIGN II**

*Grade Placement …… 10-12*
*Credits ……………… 1*
*Prerequisite ……….Design I*

This is an intermediate course for students who enjoy working with paint, clay, wood, and mixed media. The course concentrates on developing technical skills and artistic appreciation of successful two and three-dimensional artwork. Studio projects will be tied to discussion of art historical topics and/or uses of art in modern societies.

**DRAWING I**

*Grade Placement …… 9-12*
*Credits ……………… 1*
*Prerequisite ……….Official promotion to or placement in high school*

In this course, students will develop skills through the use of the elements and principles of art. The class will place a strong emphasize on producing interesting compositions and advance proficiency with a variety of dry media.
COURSE DESCRIPTIONS

FINE ARTS

DRAWING II

Grade Placement …… 10-12
Credits ……………… 1
Prerequisite ………..Drawing I

In this course, students increase their awareness of all these things and continue to improve on their technical skills. Compositions become more complex and attention to detail becomes increasingly important to create polished, professional pieces of art. The advanced student is also given more freedom with composition, learning how to stage and plan their own layouts for their drawings.

HUMAN PORTRAIT AND HUMAN FIGURE DRAWING    TEA #03501300   0204

Grade Placement …… 9-12
Credits ……………… 1
Prerequisite ………..Official promotion to or placement in high school

This course is designed to focus on the techniques used to create human portraits and figures. All areas will be broken down and focused on individually creating a full understanding of how to create a realistic likeness. Different mediums will be used throughout the course thus allowing the students to obtain an understanding of how to manipulate those mediums while solving the problems of creating realistic portraits and figure drawings.

PAINTING I

Grade Placement …… 9-12
Credits ……………… 1
Prerequisite ………..Official promotion to or placement in high school

Painting I is a natural form of communication where students explore a variety of water based paints through learned techniques and methods. Students learn to see and record their surroundings, design and compose using a variety of styles allowing them to express their feelings and thoughts as they interpret the environment, people, and things around them.

PAINTING II

Grade Placement …… 10-12
Credits ……………… 1
Prerequisite ………..Painting I and/or Design I

This course further develops the skills used in Painting I and/or Design I and continues to
concentrate further on developing technical skills in two-dimensional works using wet media. Students will continue experimentation using various media and will be expected to solve problems using the art elements and principles of design.

**PHOTOSHOP**

*Grade Placement …… 10-12*
*Credits ……………… 1*
*Prerequisite ………Official promotion to or placement in high school*

This course covers the use of digital graphic techniques to create and manipulate photographs. Students will explore digital imaging techniques through the use of the photo manipulation software. Students will learn to use photo editing and color correction tools, activate selection tools and extraction functions, utilize quick masks and alpha channels, manipulate work paths, incorporate adjustment layers and layer masks. They will also apply filters and blending modes to create special effects, incorporate clipping groups, and work with a variety of file formats.

**SCULPTURE I**

*Grade Placement …… 9-12*
*Credits ……………… 1*
*Prerequisite ………Official promotion to or placement in high school*

This course develops skills in the making of sculptures using different media. It is an intermediate course that allows for the use of clay, plaster, wood, wire, and/or mixed media. Students will need a basic understanding of the elements and principles of art. The course concentrates on developing technical skills and artistic appreciation of successful three-dimensional artwork.

**SCULPTURE II**

*Grade Placement …… 10-12*
*Credits ……………… 1*
*Prerequisite ………Sculpture I*

This course further develops the skills used in Sculpture I and continues to concentrate further on developing technical skills and artistic appreciation of successful three-dimensional artwork. Students will continue experimentation using various mediums and will be expected to solve problems using the art elements and principles of design. Critiques, history, aesthetics, and individual expression in various three dimensional art works will be an integral part of this course as well.

**ART APPRECIATION Dual Enrollment**

*Grade Placement …… 10-12*
COURSE DESCRIPTIONS

FINES ARTS

Credits .................... 1
Prerequisite ............ Meet criteria

This class will provide students with the opportunity to experience the role art plays in life. Students will learn a descriptive formal vocabulary while researching significant artists, techniques, periods, and styles. Art Appreciation focuses on the relationship between art, religion, politics, and society in a variety of cultures.

THEATER ARTS I

Grade Placement ...... 9-12
Credits .................... 1 Each
Prerequisite ............ Official promotion to or placement in high school

Theater Arts I is a basic introductory course. It incorporates basic acting techniques, the role of the actor interpreting dramatic literature, and the historical evolution of performance styles.

THEATER PRODUCTION I-IV

Grade Placement ...... 9-12
Credits .................... 1 Each
Prerequisite ............ Director Approval

Theater production is a course designed for those students primarily interested in working on plays. Although theater background is encouraged, it is not required. All students will be required to act on stage in front of an audience in the course of the year. Plays will be presented to the public throughout the school year.

THEATER/DRAMA APPRECIATION DUAL ENROLLMENT

Grade Placement ...... 11-12
Credits .................... 1 Each
Prerequisite ............ Meet Criteria

This course introduces the theatre and develops and appreciation and understanding of the various factors that make up a live theatre performance. This course surveys all phases of theatre including its history, dramatic works, stage techniques, production procedure, and relationship to the fine arts.
<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
<th>FINE ARTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BAND I-IV</strong></td>
<td>TEA #PES00010 0220</td>
</tr>
<tr>
<td></td>
<td>TEA #03150200 0222</td>
</tr>
<tr>
<td></td>
<td>TEA #03150300 0224</td>
</tr>
<tr>
<td></td>
<td>TEA #03150400 0226</td>
</tr>
</tbody>
</table>

**Grade Placement …… 9-12**  
**Credits ……………… 1 Each**  
**Prerequisite ……….Director Approval**

This course provides students the opportunities to develop the skills needed to become successful participants in a variety of instrumental music activities such as marching band, U.I.L. concert and sight reading contest, U.I.L. solo and ensemble contests, and All-State Band.

| **APPLIED MUSIC I-II** | TEA #03152500 0227 |
|                       | TEA #03152600 0228 |

**Grade Placement …… 9-12**  
**Credits ……………… 1 Each**  
**Prerequisite ……….Teacher Approval**

This course is intended to sharpen vocal/instrumental music skills. The instructor will work with individual students to improve the particular skills needed to succeed in group, as well as in solo activities. This is an excellent enrichment program for the serious music student.

| **CHOIR I-IV**       | TEA #03150900 0261 |
|                     | TEA #03151000 0263 |
|                     | TEA #03151100 0265 |
|                     | TEA #03151200 0267 |

**Grade Placement …… 9-12**  
**Credits ……………… 1 Each**  
**Prerequisite ……….Director Approval**

Choir is a mixture of unison, 2-part, 3-part, and 4-part choral music, with emphasis on the fundamentals of sight-reading, correct breathing and performance skills. Basic music theory will be taught as a main part of this course (learning to understand written music and apply it to vocal production. Students will have the opportunity to perform at least two concerts, attend festivals, participate in U.I.L. solo/ensemble competition and audition for the district, regional, and area state choirs. A student who excels in this class will be adequately prepared for the Concert Chorale. This is a performance class.

| **CONCERT CHORALE I-IV** | TEA #03150900 0260 |
|                         | TEA #03151000 0262 |
|                         | TEA #03151100 0264 |
|                         | TEA #03151200 0266 |
Fine Arts

**Chorale**

*Grade Placement …….. 9-12*
*Credits ………………. 1 Each*
*Prerequisite ………..Teacher Approval*

Chorale is a mixture of unison, 2-part, 3-part, 4-part and *a capella* choral music, with emphasis on the fundamentals of sight-reading, correct breathing and performance skills. Students will have the opportunity to present concerts, sing at the commencement exercises, sing the national anthem at sporting events, attend festivals, participate in U.I.L. solo/ensemble competition, U.I.L. Concert and Sight-reading competition and audition for the district, regional, area and state choirs.

**Contest Choir**

*Grade Placement …….. 9-12*
*Credits ………………. 1 Each*
*Prerequisite ………..Director Approval*

Contest Choir is a mixture of 3-part female voices, or 3-part male voices and/or 4-part mixed voices, with emphasis on the fundamentals of sight-reading, correct breathing and performance skills. Basic music theory will be taught as a main part of this course (learning to understand written music and apply it to vocal production). This choir will compete at the U.I.L. Concert and Sight-Reading Contest. In addition to the U.I.L. contest, students will have the opportunity to perform in at least two concerts. This is a performance class.

**Dance**

*Grade Placement …….. 9-12*
*Credits ………………. 1 Each*
*Prerequisite ………..Official promotion to or placement in high school*

This course focuses on developing students’ awareness of their bodies’ movement using dance combinations. Each week different dance styles are introduced. Students also learn to express emotion, ideas, and communication through proper kinesthetic alignment.

**Folklorico**

*Grade Placement …….. 9-12*
*Credits ………………. 1 Each*
**COURSE DESCRIPTIONS**

**FINE ARTS**

**Prerequisite ………..Official promotion to or placement in high school**

This class focuses on learning and perfecting various footwork relating to Mexican Dance, known as zapateado. Students will refine their spatial kinesthetic awareness, learn the proper warm-up and cool downs of dance class, and develop an extensive vocabulary of dance terminology.

**Grade Placement …….. 9-12**
**Credits ……………… 1 Each**
**Prerequisite ………..Director Approval**

Mariachi is a mixture of instrumentalists and vocalists (instruments include: trumpet*, flute*, violin, vihuela, guitarra de golpe, guitar and guitarrón). There will be an emphasis in the teaching on the fundamentals of sight-reading, correct strumming/bowing/breathing and performance skills. Basic music theory will be taught as a main part of this course (learning to understand written music and apply it to instrumental/vocal production). This group will perform concerts in conjunction with the folklórico dance group and also will be available to perform small concerts for special occasions. When a certain level of mastery occurs within the group, this group will perform in mariachi contests. This is a performance class.

*Students playing instruments that are involved in the band program need to be enrolled in band, as well as mariachi.
Health & Physical Education Courses

All students who are enrolled in a course that satisfies the curriculum requirements for physical education are assessed on their physical fitness using the FITNESSGRAM assessment. (TEC §38.101)

Health and physical education courses provide instruction in the principles and techniques of cardiopulmonary resuscitation. (TEC §28.0023)

- Health Education
- Foundation of Personal Fitness
- Lifetime Sports
- Team Sports
- Girls Athletics
- Boys Athletics
- Athletic Training and Sports Injury Care
COURSE DESCRIPTIONS

HEALTH AND PHYSICAL EDUCATION

HEALTH EDUCATION

Grade Placement …… 10-12
Credits ……………… ½
Prerequisite ………..Official promotion to or placement in high school

This course is designed to teach the following principles and theories: your body, general health, appearance in daily life, understanding your feelings, dangerous habits, understanding diseases, family health and safety, health and the community.

FOUNDATIONS OF PERSONAL FITNESS (BOYS/GIRLS P.E.)

Grade Placement …… 9-12
Credits ……………… ½
Prerequisite ………..Official promotion to or placement in high school

Physical education is designed to acquaint students with various lifetime sports and activities and to teach students how to live a healthier lifestyle, maintaining good or better levels of physical fitness, consuming a healthy diet, and living an active lifestyle.

TEAM SPORTS (BOYS/GIRLS P.E.)

Grade Placement …… 9-12
Credits ……………… ½
Prerequisite ………..Foundations of Personal Fitness

Physical education is designed to teach students the rules, knowledge, and skills of various sports. Students will become active through cardiovascular conditioning and weight training.

GIRLS ATHLETICS

Grade Placement …… 9-12
Credits ……………… ½ Each
Prerequisite ………..Coach Approval

Students in this class have the option to participate in U.I.L. girls’ basketball, cross-country, diving, golf, power lifting, soccer, softball, swimming, tennis, track and volleyball. Some sports may require try-outs for placement on teams. This course can be counted toward P.E. credit.

BOYS ATHLETICS

TEA #PES0002

TEA #PES00052 0562

TEA #PES00055 0564

TEA #PES00000
HEALTH AND PHYSICAL EDUCATION

COURSE DESCRIPTIONS

Health and Physical Education

Grade Placement …… 9-12
Credits ……………… ½ Each
Prerequisite ………..Coach Approval

Students in this class have the option to participate in U.I.L. boy’s baseball, basketball, cross-country, diving, football, golf, power lifting, soccer, swimming, tennis and track. Some sports may require try-outs for placement on teams. This course can be counted toward P.E. credit.

Athletic Training and Sports Injury Care

Grade Placement …… 10-12
Credits ……………… ½ Each (Local Credit)
Prerequisite ………..Biology & Health, Trainer Approval

This course will provide students with an opportunity to learn basic skills in the care, prevention, evaluation, and rehabilitation of athletic injuries. This opportunity uses a hands-on approach to athletic training and will require interested students to assist in field set-up/take-down during practice. Students will have the unique opportunity to attend varsity and sub-varsity events and may receive physical education credits.
Special Education Courses

- Basic Algebra
- Consumer Mathematics
- Basic Informal Geometry
- Functional Math
- Basic U.S. History
- Basic World Geography
- Basic U.S. Government/Consumer Economics
- Personal/Social Skills
- Basic I.P.C.
- Basic Biology
- Basic Chemistry
- Basic English I, II, III, IV
- Dyslexia
- Basic Reading Improvement
- Vocational Skills
- Daily Living Skills I, II, III, IV
- Communication I, II, III, IV
- Recreational Leisure I, II, III, IV
- Community Skills I, II, III, IV
- Personal Social Skills I, II, III, IV
Other Courses

- Cheerleading
- JROTC
- SAT / ACT Prep
- Teen Leadership
CHEERLEADING

Grade Placement …… 9-12
Credits ……………… ½ per semester
Prerequisite ………..Director Approval

The goal of this class is to challenge the students who have basic cheerleading knowledge. Cheerleaders will learn more advanced arm motions, jumps, and stunts along with proper terminology. The cheerleaders will learn choreographed dances and formation changes that will be used for different performances. Cheerleaders will also learn basic stunting. Safety and technique will be taught and reinforced throughout the class.

JROTC

Grade Placement …… 9-12
Credits ……………… ½ per semester
Prerequisite ………..Official promotion to or placement in high school

This course will introduce students to the meaning of citizenship, the elements of leadership, and the value of scholarship in attaining life goals. Students will develop a sound appreciation for the heritage and traditions of America and a growing sense of pride in his/her organization, associates, and self. Students are expected to represent their school and the JROTC at community and civic events outside school hours.

SAT/ACT PREP

Grade Placement …… 10-12
Credits ……………… ½ (Local Credit)
Prerequisite ………..Official promotion to or placement in high school

This course will prepare students for the required college entrance exams SAT/ACT. It is a comprehensive tutoring course for one semester in mathematics, language arts and test taking skills. This course counts for local credit only.

TEEN LEADERSHIP

Grade Placement …… 9-12
Credits ……………… 1
Prerequisite ………..Official promotion to or placement in high school

This course teaches students to take responsibility, express themselves, and handle problems and decisions when they arise. Students will discover their own self-worth and will approach life prepared to achieve. The course builds personal responsibility and leadership skills through role plays, group activities, speeches and projects.
Technology Applications

Courses

- Computer Science I
- Computer Science II
- Computer Science III
- AP Computer Science
- Game Programming and Design
<table>
<thead>
<tr>
<th>Course</th>
<th>Grade Placement</th>
<th>Credits</th>
<th>Prerequisite</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science I</td>
<td>9-12</td>
<td>1</td>
<td>Algebra I</td>
<td>This course provides students with an opportunity to study foundational technology applications. Students will practice the use of technology-related concepts and terms as well as data input strategies. They will also evaluate information, apply technology as a tool for problem solving, and communicate information in different formats to diverse groups.</td>
</tr>
<tr>
<td>Computer Science II</td>
<td>10-12</td>
<td>1</td>
<td>Computer Science I</td>
<td>Students will continue their study of technology applications with extended practice of the use of technology-related concepts and terms as well as data input strategies. They will also evaluate information, apply technology as a tool for problem solving, and communicate information in different formats to diverse groups.</td>
</tr>
<tr>
<td>Computer Science III</td>
<td>11-12</td>
<td>1</td>
<td>Computer Science II</td>
<td>Students will further their study of technology applications with extended practice of the use of technology-related concepts and terms as well as data input strategies. They will also evaluate information, apply technology as a tool for problem solving, and communicate information in different formats to diverse groups.</td>
</tr>
<tr>
<td>AP Computer Science</td>
<td>10-12</td>
<td>1</td>
<td>Algebra II</td>
<td>This course prepares students to design and implement solutions to problems by writing, running and debugging computer programs. The course emphasizes programming methodology, procedural abstraction, and in-depth study of algorithms, data structures, and data abstractions.</td>
</tr>
</tbody>
</table>
Game Programming and Design

**Grade Placement** ...... 9-12

**Credits** .................. 1

**Prerequisite** .......... Algebra I

This course fosters student creativity and innovation by presenting students with opportunities to design, implement, and present meaningful programs through a variety of media to collaboratively solve gaming problems. Students will also identify task requirements; plan search strategies; and use programming concepts to access, analyze and evaluate information needed to design games.
Texas Education Agency
Division of Career and Technical Education
Sharyland Independent School District
Public Notification of Nondiscrimination in Career and Technical Education Programs

Sharyland Independent School District offers career and technical education programs in Agriculture, Food and Natural Resources; Architecture and Construction; Arts, Audio/Video Technology and Communications; Business Management and Administration/Finance; Education and Training; Health Science; Human Services; Information Technology; Law, Public Safety, Corrections and Security; Science, Technology, Engineering, and Mathematics (STEM); and Transportation, Distribution, and Logistics. Admission to these programs is based on interest and aptitude, course sequencing, age appropriateness, and class space availability. Some programs require an application process.

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

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

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

For information about your rights or grievance procedures, contact the Title IX Coordinator, Rosa O’Donnell, at 1200 N. Shary Rd. Mission, TX 78572, (956) 580-5200.

Agencia Educativa de Texas
División de Programas Vocacionales
Distrito Escolar Independiente de Sharyland
Notificación Pública de No Discriminación en Programas de Educación Vocacional

El Distrito Escolar Independiente de Sharyland ofrece programas vocacionales en ciencias agrícolas; arquitectura y construcción; artes, tecnología y comunicación; gestión empresarial y administración/finanzas; educación y entrenamiento; ciencia de la salud; servicios humanos; información técnica; ley y seguridad pública; ciencia, tecnología, ingeniería y matemáticas; y transporte y distribución. La admisión a estos programas se basa en las aplicaciones recibidas, edad apropiada, año escolar, aptitud e interés, y la secuencia lógica de cursos. Algunos programas requieren un proceso de admisión.

Es póliza del Distrito Escolar de Sharyland no discriminar por motivos de raza, color, origen nacional, sexo o impedimento, en sus programas, servicios o actividades vocacionales, tal como lo requieren el Título VI de la Ley de Derechos Civiles de 1964, según enmienda; el Título IX de las Enmiendas en la Educación, de 1972, y la Sección 504 de la Ley de Rehabilitación de 1973, según enmienda.

Es póliza del Distrito Escolar de Sharyland no discriminar por motivos de raza, color, origen nacional, sexo, impedimento o edad, en sus procedimientos de empleo, tal como lo requieren el Título VI de la Ley de Derechos Civiles de 1964, según enmienda; el Título IX de las Enmiendas en la Educación, de 1972, la ley de Discriminación por Edad, de 1975, según enmienda, y la Sección 504 de la Ley de Rehabilitación de 1973, según enmienda.

El Distrito Escolar de Sharyland tomará las medidas necesarias para asegurar que la falta de habilidad en el uso del inglés no sea un obstáculo para la admisión y participación en todos los programas educativos y vocacionales.

Career and Technical Education Program

Achieve Texas Career Clusters:

Agriculture, Food, and Natural Resources
Architecture and Construction
Arts, A/V Technology, and Communications
Business Management and Administration/Finance
Education and Training
Health Science
Human Services
Information Technology
Law, Public Safety, Corrections, and Security
Science, Technology, Engineering, and Mathematics
Transportation, Distribution, and Logistics
Courses in this cluster focus on the production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.

AGRICULTURE, FOOD, AND NATURAL RESOURCES CLUSTER

**AGRIBUSINESS MANAGEMENT AND MARKETING**

*Local Course Number: P521*
*Grade Placement: 10-12*
*Credits: 1*
*Pre-Requisite: None, Offered every 3rd year; [Teacher Approval Required]*
*PEIMS ID: 13000900*

This course is designed to provide a foundation to agribusiness management and the free enterprise system. Instruction includes the use of economic principles such as supply and demand, budgeting, record keeping, finance, risk management, business law, marketing, and careers in agribusiness.

**ADVANCED ANIMAL SCIENCE**

*Local Course Number: 0525*
*Grade Placement: 11-12*
*Credits: 1 Science Credit*
*Pre-Requisite: Biology, Chemistry, Physics, and One Other Credit from the Animal Systems Pathway*
*PEIMS ID: 13000700*

This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences.

**ADVANCED ENVIRONMENTAL TECHNOLOGY**

*Local Course Number: P516*
*Grade Placement: 10-12*
*Credits: 1*
*Pre-Requisite: One Other Credit from the Agriculture, Food, and Natural Resources Cluster, Offered every 3rd year; [Teacher Approval Required]*
*PEIMS ID: 13001200*
This course examines the interrelatedness of environmental issues and production agriculture. Students evaluate sustainable resources and green technologies which will provide environmental benefits. Instruction is designed to allow for the application of science and technology to measure environmental impacts resulting from production agriculture through field and laboratory experiences.

**AGRICULTURAL FACILITIES DESIGN AND FABRICATION**

*Local Course Number*: 0506  
*Grade Placement*: 11-12  
*Credits*: 1  
*Pre-Requisite*: None  
*PEIMS ID*: 13002300

This course helps to prepare students for careers in mechanized agriculture and technical systems. It will introduce knowledge and skills related to agricultural facilities design and fabrication such as developing building plans, exploring different types of power systems, and metal construction techniques.

**AGRICULTURAL MECHANICS AND METAL TECHNOLOGIES**  
(Introduction to Woodworking and Welding)

*Local Course Number*: 0502  
*Grade Placement*: 10-12  
*Credits*: 1  
*Pre-Requisite*: None  
*PEIMS ID*: 13002200

This course is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques. *This course may offer an Advanced Welding Society (AWS) certification opportunity.*

**AGRICULTURAL POWER SYSTEMS**

*Local Course Numbers*: 0520 & 2520  
*Grade Placement*: 11-12  
*Credits*: 2 (1 Credit per Term)  
*Pre-Requisite*: None  
*PEIMS ID*: 13002400

This course is designed to develop an understanding of power and control systems as related to energy sources, small and large power systems, and agricultural machines and equipment. *This*
course may offer an Advanced Welding Society (AWS) certification opportunity.

**EQUINE SCIENCE**

*Local Course Number*: 0509  
*Grade Placement*: 10-12  
*Credits*: 1  
*Pre-Requisite*: None  
*PEIMS ID*: 13000500

This course is designed to help prepare students for careers in the field of animal science. They will be introduced to knowledge and skills related to animal systems, career opportunities, entry requirements, and industry expectations. Animal species to be addressed in this course may include, but are not limited to, horses, donkeys, and mules.

**LIVESTOCK PRODUCTION**

*Local Course Number*: 0504  
*Grade Placement*: 10-12  
*Credits*: 1  
*Pre-Requisite*: None  
*PEIMS ID*: 13000300

This course is designed to help prepare students for careers in the field of animal science. This course will enhance the student’s knowledge and skills related to animal systems, the workplace, career opportunities, entry requirements, and industry expectations. Animal species to be addressed in this course may include, but are not limited to, beef cattle, dairy cattle, swine, sheep, goats, and poultry.

**PRINCIPLES OF AGRICULTURE, FOOD, AND NATURAL RESOURCES**

*Local Course Number*: 0500  
*Grade Placement*: 9-12  
*Credits*: 1  
*Pre-Requisite*: None  
*PEIMS ID*: 13000200

This introductory course is designed for students interested in careers related to agriculture, food, and natural resources. It allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations.

**PROFESSIONAL STANDARDS IN AGRIBUSINESS**
Local Course Number….P517
Grade Placement ……… 10-12
Credits …………………… 1
Pre-Requisite ………... None, Offered every 3rd year; [Teacher Approval Required]
PEIMS ID ……………… 13000800

This course primarily focuses on leadership, communication, employer-employee relations, and problem solving as they relate to agribusiness.

WILDLIFE, FISHERIES, AND ECOLOGY MANAGEMENT

Local Course Number….0519
Grade Placement ……… 10-12
Credits …………………… 1
Pre-Requisite ………... None
PEIMS ID ……………… 13001500

This course examines the management of game and non-game wildlife species, fish, and aquacrops and their ecological needs as related to current agricultural practices. This course may offer the Texas Parks and Wildlife Department (TPWD) Hunter Safety certification opportunity.

STC PRECISION MANUFACTURING TECHNOLOGY PROGRAM

Local Course Numbers….1010 & 2010
Grade Placement ……… 11-12
Credits …………………… 1 Credit per Term
Pre-Requisite …………… None
PEIMS ID ……………… Vary depending on the specific courses taken

This STC Certificate Program includes studies to enable the student to specialize in machining, precision measurement, tool and die, and manufacturing processes. Students are able to begin this program while in high school and continue the remaining courses at the STC campus upon graduation. Upon completion of the certificate program, this specialty will allow the student to continue in the Precision Manufacturing Technology's two-year Associate of Applied Science Degree program or permit the student to work in a highly rewarding career field in industry.

The courses under this program are only offered 1st block. Since these courses are taught by college instructors at the South Texas College Technology Campus, bus transportation will be provided. The bus will leave from the high school at 7:30 a.m. Personal transportation is allowed pending pre-approval and will be contingent upon obtaining a parking permit from the student’s home campus and STC. Course offerings are dependent on the availability of STC staff, and specific courses will only be offered if the minimum enrollment requirements are met. See your counselor for more detailed information regarding this off-campus program.
ARCHITECTURE AND CONSTRUCTION CLUSTER

Courses in this cluster focus on careers in designing, planning, managing, building and maintaining the built environment.

ADVANCED CONSTRUCTION TECHNOLOGY

Local Course Numbers….0484 & 2484
Grade Placement ........ 11-12
Credits .................... 2 (1 Credit per Term)
PEIMS ID .................. 13005200

In this course, students build on the knowledge base from Construction Technology and are also introduced to topics related to exterior and interior finishing such as, roofing, exterior siding materials, steel framing, drywall, cabinetry and countertops.

ADVANCED ELECTRICAL TECHNOLOGY

Local Course Numbers….0488 & 2488
Grade Placement ........ 11-12
Credits .................... 2 (1 Credit per Term)
Pre-Requisite .............. Principles of Architecture & Construction and Electrical Tech.
PEIMS ID .................. 13005700

Students build on the knowledge base from Electrical Technology and are also introduced to alternating current and direct current motors, conductor installation, installation of electrical services, and electric lighting installation.

ADVANCED INTERIOR DESIGN

Local Course Number….0460
Grade Placement ........ 11-12
Credits .................... 1
Pre-Requisite .............. Interior Design
PEIMS ID .................. 13004400

This technical laboratory course will cover topics such as employability characteristics, principles, processes, technologies, communication, tools, equipment, and materials related to interior spatial design.
### CIVIL ENGINEERING AND ARCHITECTURE – PLTW PROGRAM COURSE

**Local Course Number**: 0914  
**Grade Placement**: 11-12  
**Credits**: 1  
**Pre-Requisite**: Principles of Engineering, [Application Process]  
**PEIMS ID**: N1303747

Students learn important aspects of building and site design and development, applying math, science, and standard engineering practices to design both residential and commercial projects. They document designs using 3D architecture design software. Some students have seen these designs come to life through partnerships with local housing organizations.

### CONSTRUCTION TECHNOLOGY

**Local Course Numbers**: 0482 & 2482  
**Grade Placement**: 10-12  
**Credits**: 2 (1 Credit per Term)  
**Pre-Requisite**: Principles of Architecture & Construction  
**PEIMS ID**: 13005100

In this course, students gain knowledge and skills specific to those needed to enter the work force as carpenters or building maintenance supervisors or prepare for a postsecondary degree in construction management, architecture, or engineering. Students acquire knowledge and skills in safety, tool usage, building materials, codes, and framing.

### ELECTRICAL TECHNOLOGY

**Local Course Numbers**: 0486 & 2486  
**Grade Placement**: 10-12  
**Credits**: 2 (1 Credit per Term)  
**Pre-Requisite**: Principles of Architecture & Construction  
**PEIMS ID**: 13005600

In this course, students gain knowledge and skills specific to those needed to enter the work force as an electrician or building maintenance supervisor or prepare for a postsecondary degree in construction. Students acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, and the reading of electrical drawings, schematics, and specifications.

### INTERIOR DESIGN

**Local Course Number**: 0461
This technical course addresses psychological, physiological, and sociological needs of individuals to teach them how to enhance 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, and compete in industry.

**PRINCIPLES OF ARCHITECTURE AND CONSTRUCTION**

*Local Course Number*….0480  
*Grade Placement* ……… 9-12  
*Credits* …………………  1  
*Pre-Requisite* …………. None  
*PEIMS ID* …………….. 13004200

This course provides an overview to the various fields of architecture, interior design, construction science, and construction technology. Some of the topics to be introduced include safety, work ethics, problem solving, critical thinking, leadership, teamwork, employability, career opportunities, hand and power tools, and reading technical drawings.

**STC COMPUTER AIDED DRAFTING AND DESIGN PROGRAM**

*Local Course Numbers*….0797 & 2797  
*Grade Placement* ……… 11-12  
*Credits* …………………  1 Credit per Term  
*Pre-Requisite* …………. None  
*PEIMS ID* …………….. Vary depending on the specific courses taken

This STC Certificate Program is designed to assist students in preparing architectural and structural construction documents, such as: residential projects, schools, office spaces, and commercial/industrial buildings. In addition, the students develop skills in the production of presentational free-hand drawings, working/study models, and various computer generated graphics. These means allow students to utilize specialized CAD software in solving design challenges both technically and graphically. Students are able to begin this program while in high school and continue the remaining courses at the STC campus upon graduation.

*The courses under this program are only offered 1st block. Since these courses are taught by college instructors at the South Texas College Technology Campus, bus transportation will be provided. The bus will leave from the high school at 7:30 a.m. Personal transportation is allowed pending pre-approval and will be contingent upon obtaining a parking permit from the*
student's home campus and STC. Course offerings are dependent on the availability of STC staff, and specific courses will only be offered if the minimum enrollment requirements are met. See your counselor for more detailed information regarding this off-campus program.

**STC HEATING, VENTILATION, AIR CONDITIONING AND REFRIGERATION TECH. PROGRAM**

**Local Course Numbers….1009 & 2009**  
**Grade Placement .......... 11-12**  
**Credits ..................... 1 Credit per Term**  
**Pre-Requisite .......... None**  
**PEIMS ID ................. Vary depending on the specific courses taken**

Heating, Ventilation, Air Conditioning and Refrigeration technicians are primarily trained in the service, repair, maintenance and installation of heating, cooling and refrigeration equipment including domestic, residential, commercial and industrial systems. Career preparation requires extensive educational training in refrigeration systems, electrical electronic controls, pneumatic controls, cooling and heating systems, duct design, fabrication and residential and commercial heat gained and loss calculations.

*The courses under this program are only offered 1st block. Since these courses are taught by college instructors at the South Texas College Technology Campus, bus transportation will be provided. The bus will leave from the high school at 7:30 a.m. Personal transportation is allowed pending pre-approval and will be contingent upon obtaining a parking permit from the student’s home campus and STC. Course offerings are dependent on the availability of STC staff, and specific courses will only be offered if the minimum enrollment requirements are met. See your counselor for more detailed information regarding this off-campus program.*
The courses in this cluster focus on designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

### ADVANCED AUDIO/VIDEO PRODUCTION

*Local Course Numbers*: 0699 & 2699  
*Grade Placement*: 11-12  
*Credits*: 2 (1 Credit per Term)  
*Pre-Requisite*: Audio/Video Production  
*PEIMS ID*: 13008600

In addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production, and post-production activities.

### ADVANCED FASHION DESIGN

*Local Course Numbers*: 0458 & 2458  
*Grade Placement*: 11-12  
*Credits*: 2 (1 Credit per Term)  
*Pre-Requisite*: Fashion Design  
*PEIMS ID*: 13009400

In this course, students will build on the knowledge base from the Fashion Design course and will develop an advanced understanding of fashion, with emphasis on design and production. Students will apply their advanced technical skills to create a portfolio of fashion designs and produce quality fashion products.

### ANIMATION

*Local Course Number*: 0692  
*Grade Placement*: 10-12  
*Credits*: 1  
*Pre-Requisites*: Graphic Design and Illustration or Business Information Management I
Careers in animation span all aspects of motion graphics. In this course, students will develop an understanding of the history and techniques of the animation industry. Skills to be addressed may include how to acquire information in a variety of electronic formats; how to combine graphics, images, and sound; and how to publish and deliver a product in a variety of media.

**Local Course Number**: 0687  
**Grade Placement**: 10-12  
**Credits**: 1  
**Pre-Requisite**: Principles of Arts, A/V Technology, and Communications

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. In this course, students will develop an understanding of the industry with a focus on pre-production, production, and post-production audio and video activities. Topics of study include appropriate uses of hardware components and software programs; understanding of casting and audition processes; and understanding of various audio and lighting techniques.

**Local Course Number**: 0689  
**Grade Placement**: 10-12  
**Credits**: 1  
**Pre-Requisite**: Graphic Design and Illustration

Careers in commercial photography require skills that span all aspects of the industry from setting up a shot to delivering products in a competitive market. 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 commercial photography industry with a focus on creating quality photographs.

**Local Course Number**: 0459  
**Grade Placement**: 10-12  
**Credits**: 1  
**Pre-Requisite**: None

**Local Course Number**: 0459  
**Grade Placement**: 10-12  
**Credits**: 1  
**Pre-Requisite**: None
Careers in fashion span all aspects of the textile and apparel industries. In this course, students will develop an understanding of fashion and the textile and apparel industries. Skills to be addressed may include, but are not limited to, analyzing factors that impact consumer purchases of fashion and apparel accessories; selecting proper care and maintenance practices for apparel; proposing ways to effectively manage the apparel dollar; designing apparel products using principles of effective design; and demonstrating effective repair and alteration techniques.

**GRAPHIC DESIGN AND ILLUSTRATION**

*Local Course Number*: 0915  
*Grade Placement*: 10-12  
*Credits*: 1  
*Pre-Requisite*: Principles of Arts, Audio/Video Tech., and Comm.  
*PEIMS ID*: 13008800

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.

**PRINCIPLES OF ARTS, AUDIO/VIDEO TECHNOLOGY, AND COMMUNICATIONS**

*Local Course Number*: 0691  
*Grade Placement*: 9-12  
*Credits*: 1  
*Pre-Requisite*: None  
*PEIMS ID*: 13008200

Careers in the Arts, Audio/Video Technology, and Communications career cluster require, in addition to creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication. In this course, students will develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.

**PROFESSIONAL COMMUNICATIONS**

*Local Course Number*: 0176 or 0177  
*Grade Placement*: 9-12  
*Credits*: ½ (Meets District Required Speech Credit)  
*Pre-Requisite*: None  
*PEIMS ID*: 13009900
Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. This course blends written, oral, and graphic communications and will help students develop and expand their ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research.

**STC Introduction to Speech Communication**  
SPCH 1311

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*Local Course Number… 0178*  
*Grade Placement …… 11-12*  
*Credits ……………….. 1*  
*Pre-Requisite ……….. Meet Dual Enrollment Program Criteria*  
*PEIMS ID ……………. 13009900*

This course introduces basic human communication principles and theories embedded in a variety of contexts including interpersonal, small group, and public speaking.  

Prerequisite: TSI  
Reading 351; or STAAR English II EOC 4000; or ACT English 19, Math 19, Composite 23; or SAT English 500, Math 500, Composite 1070.
The courses in this cluster focus on planning, organizing, directing and evaluating the business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector of the economy. Courses in the Finance Cluster focus on services for financial and investing planning, banking, insurance, and business financial management.

**ACCOUNTING I**

*Local Course Number….0536*
*Grade Placement ....... 10-12*
*Credits ................ 1*
*Pre-Requisite ............ Principles of Business, Marketing, and Finance*
*PEIMS ID ................ 13016600*

In this course, students will 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 will reflect on this knowledge as they engage in the process of recording, classifying, summarizing, analyzing, and communicating accounting information. Students will also formulate and interpret financial information for use in management decision making.

**ACCOUNTING II**

*Local Course Number….0535*
*Grade Placement ......... 11-12*
*Credits ................... 1*
*Pre-Requisite ............ Accounting I*
*PEIMS ID ............... 13016700*

In this course, students continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in various managerial and cost accounting activities. Students will also continue to formulate and interpret financial information for use in management decision making.
BANKING AND FINANCIAL SERVICES

Local Course Number: 0542
Grade Placement: 10-12
Credits: 1
Pre-Requisite: None
PEIMS ID: 13016300

In this course, students will develop knowledge and skills in the economical, financial, technological, international, social, and ethical aspects of banking to become competent consumers, employees, and entrepreneurs. Students will also 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.

BUSINESS INFORMATION MANAGEMENT I

Local Course Number: 0532
Grade Placement: 9-12
Credits: 1
Pre-Requisite: None
PEIMS ID: 13011400

In this course, students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.

BUSINESS INFORMATION MANAGEMENT II

Local Course Number: 0550
Grade Placement: 11-12
Credits: 1
Pre-Requisite: Business Information Management I
PEIMS ID: 13011500

In this course, students apply technical skills to address business applications of emerging technologies, create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs, and make an electronic presentation using appropriate multimedia software. This course may offer the Microsoft Office Specialist (MOS) certification opportunity.
**BUSINESS LAW**

*Local Course Number*: 0544  
*Grade Placement*: 11-12  
*Credits*: 1  
*Pre-Requisite*: None  
*PEIMS ID*: 13011700

In this course, students will analyze the social responsibility of business and industry regarding the significant issues relating to the legal environment, business ethics, torts, contracts, negotiable financial instruments, personal property, sales, warranties, business organizations, concept of agency and employment, and real property. Students will also apply technical skills to address business applications of contemporary legal issues and incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.

**GLOBAL BUSINESS**

*Local Course Number*: 0541  
*Grade Placement*: 10-12  
*Credits*: 1  
*Pre-Requisite*: None  
*PEIMS ID*: 13011800

In this course, students will apply technical skills to address global business applications of emerging technologies. Students will develop a foundation in the economical, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. This course will also help students enhance their reading, writing, computing, communication, and reasoning skills and apply them to the business environment.

**HUMAN RESOURCES MANAGEMENT**

*Local Course Number*: 0545  
*Grade Placement*: 11-12  
*Credits*: 1  
*Pre-Requisite*: None  
*PEIMS ID*: 13011900

In this course, students will recognize, evaluate, and prepare for a rapidly evolving global business environment that requires flexibility and adaptability. Students will also analyze the primary functions of human resources management, which include recruitment, selection, training, development, and compensation. Topics will incorporate social responsibility of business and
industry. Students will develop a foundation in the economical, financial, technological, international, social, and ethical aspects of human resources in order to become competent managers, employees, and entrepreneurs. Students will incorporate a broad base of knowledge that includes the legal, managerial, financial, ethical, and international dimensions of business to make appropriate human resources decisions.

PRINCIPLES OF BUSINESS, MARKETING AND FINANCE

Local Course Number….0534
Grade Placement ……… 9-12
Credits ……………………… 1
Pre-Requisite ……… None
PEIMS ID ……………. 13011200

In this course students will gain knowledge and skills in economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course will also allow 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.

STC INTRODUCTON TO COMPUTING DUAL ENROLLMENT COSC 1301

Local Course Number… 0995
Grade Placement ……… 11-12
Credits …………………. ½ - 1
Pre-Requisite ……… Meet Dual Enrollment Program Criteria
PEIMS ID ……………. 13011500

This course is an introduction and overview of computer information systems. Topics include computer hardware, software, procedures, systems, and human resources and the exploration of their integration and application in business and other segments in society. The fundamentals of computer problem solving and programming in a higher level programming language may be discussed and applied. Emphasis is placed on the familiarity and use of the Windows operating systems and personal software packages that include a word processor to process textual information, an electronic spreadsheet for manipulation of numerical data, and a database management system to create and manipulate a database. The Internet is introduced and used for educational purposes such as information search and retrieval by search engines and web browsers, e-mail utilization, and sharing of educational information. After course completion, students will be able to select correct hardware/software for application to a given problem. Lab exercises are designed to allow students to use reasoning abilities to solve problems and make decisions. Prerequisite: TSI Reading 351; or STAAR English II EOC 4000; or ACT English 19, Math 19, Composite 23; or SAT English 500, Math 500, Composite 1070. Minimal tuition
required. This course may need to be taken in conjunction with another STC dual enrollment course.
EDUCATION AND TRAINING CLUSTER

The courses in this cluster focus on planning, managing and providing education and training services, and related learning support services.

CHILD DEVELOPMENT

Local Course Number….0454
Grade Placement ……  10-12
Credits .....................  1
Pre-Requisite ............ None
PEIMS ID .................. 13024700

This course addresses knowledge and skills related to child growth and development from prenatal through school-age children, equipping students with child development skills. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children.

INSTRUCTIONAL PRACTICES IN EDUCATION AND TRAINING

Local Course Numbers….0556 & 2556
Grade Placement ……  11-12
Credits ..................... 2 (1 Credit per Term)
Pre-Requisite............ Principles of Education and Training or Child Development;
                       [Teacher Approval Required]
PEIMS ID .................. 13014400

This course is a field-based internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators or trainers in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel.
Local Course Numbers….0554 & 2554  
Grade Placement .......... 12  
Credits .................... 2 (1 Credit per Term)  
Pre-Requisite............. Instructional Practices in Education and Training;  
          [Teacher Approval Required]  
PEIMS ID ................. 13014500  

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

PRINCIPLES OF EDUCATION AND TRAINING

Local Course Number....0453  
Grade Placement ........ 9-12  
Credits .................... ½  
Pre-Requisite ............. None  
PEIMS ID ................. 13014200  

This course is designed to introduce students to the various careers available within the education and training career cluster. Students will analyze various careers and gain an understanding of the basic knowledge and skills essential to careers within the education and training career cluster. This course will also help students develop a graduation plan that leads to a specific career choice in the student's interest area.
Courses in this cluster focus on planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

ANATOMY & PHYSIOLOGY

Local Course Number…0439
Grade Placement ……… 11-12
Credits ………………… 1 Science Credit
Pre-Requisite ……….. Biology, Chemistry, and Physics
PEIMS ID ……………… 13020600

This course focuses on the structure and function of cells, tissues, and organs of the following systems: Integumentary, Skeletal, Muscular, Nervous, Circulatory, Respiratory, Digestive, Urinary, Reproductive, and Endocrine systems. Consideration is given to energy needs and the processes through which these needs are fulfilled, response to internal and external forces of the human body, processes to maintain homeostasis and metabolism, homeostatic imbalances, electrical conduction processes and interactions, environmental factors affecting the human body, electrolyte and fluid balance, reproduction, growth and embryonic development of the human body.

ANATOMY & PHYSIOLOGY PRE-AP

Local Course Number…0438
Grade Placement ……… 11-12
Credits ………………… 1 Science Credit
Pre-Requisite ……….. Biology, Chemistry, and Physics
PEIMS ID ……………… 13020600

This course covers the same concepts as Anatomy & Physiology of Human Systems. The content is studied in greater depth and may include additional topics. This course is highly recommended for students interested in pursuing a career in health occupations.

HEALTH SCIENCE  (CLINICAL ROTATIONS PROGRAM)

Local Course Numbers….0903 & 2903
Grade Placement ……… 11-12
Credits …………………. 2, (One Credit per Term)
Fall Semester Credit Meets Health Credit Requirement

**Pre-Requisites**
- Principles of Health Science, and
- Medical Terminology, [Application Process]

**PEIMS ID** 13020400

This course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will have hands-on experiences for continued knowledge and skill development. The course may be taught by different methodologies such as clinical rotation and career preparation learning. *This course may offer the Basic Life Support/CPR certification opportunity.*

### MEDICAL MICROBIOLOGY

**Local Course Number** 0907
**Grade Placement** 11-12
**Credits** 1 Science Credit
**Pre-Requisite** Biology, Chemistry, and Physics
**PEIMS ID** 13020700

In this course, students explore the microbial world, studying topics such as pathogenic and nonpathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases.

### MEDICAL MICROBIOLOGY PRE-AP

**Local Course Number** 0909
**Grade Placement** 11-12
**Credits** 1 Science Credit
**Pre-Requisite** Biology, Chemistry, and Physics
**PEIMS ID** 13020700

This course covers the same concepts as Medical Microbiology. The content is studied in greater depth and may include additional topics. This course is highly recommended for students interested in pursuing a career in health occupations.

### MEDICAL TERMINOLOGY

**Local Course Number** 0901
**Grade Placement** 10-12
**Credits** ½
**Pre-Requisite** None
**PEIMS ID** 13020300
This course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, combining forms, and singular and plural forms, as well as, medical abbreviations and acronyms. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

**PRACTICUM IN HEALTH SCIENCE (PHARMACY TECHNICIAN PROGRAM)**

*Local Course Numbers*… 0904 & 2904  
*Grade Placement* ……….  Graduating Junior - 12  
*Credits* ……………………… 2, (One Credit per Term)  
   *Fall Semester Credit Meets Health Credit Requirement*  
*Pre-Requisites*……………….  Medical Terminology, and  
   “B” or better in Algebra II or Pre-Calculus; [Application Process]  
*PEIMS ID* ………………….  13020500

This course is designed to equip students with knowledge, technical skills, and work habits required for an entry-level position in the pharmacy field or related area. This course encourages active student participation and may include group discussions and projects, laboratory work, simulations, demonstrations, field trips, guest speakers, and lectures. A strong emphasis is placed on ethics, accountability, professionalism, and the individual's commitment to pursue lifelong personal and professional development. This course may offer the Pharmacy Technician and National Sterile Products Intravenous certification opportunities. Specific criteria must be met to quality for these examinations.

**PRACTICUM IN HEALTH SCIENCE II (MEDICAL BILLING AND CODING PROGRAM)**

*Local Course Numbers*… 0916 & 2916  
*Grade Placement* ……….  Graduating Junior - 12  
*Credits* ……………………… 2, (One Credit per Term)  
*Pre-Requisites*……………….  Principles of Health Science, and/or Medical Terminology; [Application Process]  
*PEIMS ID* ………………….  13020510

This course is designed to equip students with the knowledge, technical skills, and work habits required for an entry-level position in the medical insurance billing and coding field by offering problem-solving exercises by utilizing real-world scenarios. This course places a strong emphasis on ethics, accountability, professionalism, and the individuals' commitment to the pursuit of lifelong personal, educational and professional development, as it relates to the medical insurance billing and coding field. This course may offer the National Certified Insurance and Coding Specialist (NCICS) certification opportunity. Specific criteria must be met to quality for this examination.
PRINCIPLES OF HEALTH SCIENCE

Local Course Number….0900
Grade Placement .......... 9-12
Credits ..................... 1, Meets Health Credit Requirement in taken for entire credit
Pre-Requisite ............. None
PEIMS ID .................. 13020200

This course provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. Students will gain an understanding of the various employment opportunities this career cluster has to offer and assess their individual career options and the preparation necessary for employment in the health science industry. Students will also learn about safety, legal, and ethical issues related to this career cluster.

PROBLEMS AND SOLUTIONS

Local Course Number….0908
Grade Placement .......... 10-12
Credits ..................... ½
Pre-Requisite ............. None
PEIMS ID .................. 12701500

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

STC DUAL ENROLLMENT MEDICAL SCIENCE ACADEMY (DEMSA)

Local Course Numbers…. 1008 & 2008
Grade Placement .......... 11-12
Credits ..................... 1 Credit per Course
Pre-Requisite ............. 2-Year Commitment, [Application Process]
PEIMS ID .................. Vary depending on the specific courses taken

DEMSA is a year-round dual enrollment program developed for high school students who are seriously interested in pursuing a career in health care. The purpose of the program is to increase the number of area students committed to careers and service in Medicine, Dentistry, Nursing, and Allied Health. For more information visit:
http://academicaffairs.southtexascollege.edu/highschool/academies/demsia/
HUMAN SERVICES CLUSTER

This cluster focuses on preparing individuals for employment in career pathways that relate to families and human needs.

CHILD DEVELOPMENT

Local Course Number… 0454
Grade Placement ……… 10-12
Credits ………………… 1
Pre-Requisite ……….. None
PEIMS ID ……………. 13024700

This course addresses knowledge and skills related to child growth and development from prenatal through school-age children, equipping students with child development skills. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children.

DOLLARS AND SENSE

Local Course Number… 0455
Grade Placement ……… 9-12
Credits ………………… ½
Pre-Requisite ……….. None
PEIMS ID ……………. 13024300

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.

FAMILY AND COMMUNITY SERVICES

Local Course Number… 0464
Grade Placement ……… 10-12
Credits ………………… ½
Pre-Requisite ……….. None
PEIMS ID ……………. 13024900

This course is designed to involve students in realistic and meaningful community-based activities through direct service experiences. Students are provided opportunities to interact and
provide services to individuals, families, and the community through community or volunteer services. Emphasis is placed on developing and enhancing organizational and leadership skills and characteristics.

**INTERPERSONAL STUDIES**

*Local Course Number… 0452*

*Grade Placement …… 9-12*

*Credits .................. ½*

*Pre-Requisite ............ None*

*PEIMS ID …………….. 13024400*

This course 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.

**LIFETIME NUTRITION AND WELLNESS**

*Local Course Number… 0456*

*Grade Placement …… 10-12*

*Credits .................. 1*

*Pre-Requisite ............ None*

*PEIMS ID …………….. 13024500*

This laboratory 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 and tourism, education and training, human services, and health sciences. *This course may offer the Food Handlers and/or ServSafe certification opportunities.*

**PRINCIPLES OF HUMAN SERVICES**

*Local Course Number… 0450 & 1450*

*Grade Placement …… 9-12*

*Credits .................. 1, ( ½ credit in Foods Lab & ½ credit in Apparel Lab)*

*Pre-Requisite ............ None*

*PEIMS ID …………….. 13024200*

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. *This course may offer the Food Handlers and/or ServSafe certification opportunities.*
Courses in this cluster focus on preparing students for entry level, technical, and professional careers related to the design, development, support and management of hardware, software, multimedia, and systems integration services.

**COMPUTER PROGRAMMING**

*Local Course Number… 0448*
*Grade Placement …… 10-12*
*Credits …………………. 1*
*Pre-Requisite ………… Principles of Information Technology*
*PEIMS ID ……………….. 13027600*

In this course, students will acquire knowledge of structured programming techniques and concepts appropriate to developing executable programs and creating appropriate documentation. Students 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 it relates to computer programming. Students will also apply technical skills to address business applications of emerging technologies.

**DIGITAL AND INTERACTIVE MEDIA**

*Local Course Number… 0540*
*Grade Placement …… 10-12*
*Credits …………………. 1*
*Pre-Requisite ………… Principles of Information Technology*
*PEIMS ID ……………….. 13027800*

In this course, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Topics to be addressed include various electronic technologies such as, e-mail, blogs, and chat rooms, as well as, video/digital photography equipment and techniques.

**PRINCIPLES OF INFORMATION TECHNOLOGY**

*Local Course Number… 0560*
*Grade Placement …… 9-12*
*Credits …………………. 1*
*Pre-Requisite ………… None*
**WEB TECHNOLOGIES**

*Local Course Number… 0553*
*Grade Placement ……. 10-12*
*Credits ………..…..… 1*
*Pre-Requisite …….. Principles of Information Technology*

**PEIMS ID ………… 13027900**

In this course, students will evaluate and employ computer-based productivity tools to create and modify web and digital media designs. Students will gain knowledge in Internet programming strategies, web administration, and written plans of action to meet client needs.

**STC COMPUTER MAINTENANCE TECHNOLOGY PROGRAM**

*Local Course Numbers….1013 & 2013*
*Grade Placement ……. 11-12*
*Credits ………………… 1 Credit per Term*
*Pre-Requisite ………. None*

**PEIMS ID ………… Vary depending on the specific courses taken**

In this specialization, students will learn the skills necessary to compete in the computer maintenance industry. They will learn skills such as computer repair, maintenance, peripheral installation and troubleshooting, as well as, learn how to provide hardware and software support for users within their organization.

*The courses under this program are only offered 1st block. Since these courses are taught by college instructors at the South Texas College Technology Campus, bus transportation will be provided. The bus will leave from the high school at 7:30 a.m. Personal transportation is allowed pending pre-approval and will be contingent upon obtaining a parking permit from the student’s home campus and STC. Course offerings are dependent on the availability of STC staff, and specific courses will only be offered if the minimum enrollment requirements are met. See your counselor for more detailed information regarding this off-campus program.*

**STC ELECTRONIC TECHNOLOGY PROGRAM**
Local Course Numbers….1004 & 2004
Grade Placement .......... 11-12
Credits .................... 1 Credit per Term
Pre-Requisite ............ None
PEIMS ID .................. Vary depending on the specific courses taken

This specialization covers basic and advanced electronics to prepare students with the hands-on training they need to work in the electronics industry. Graduates may find employment in occupations requiring electronics troubleshooting such as technicians in service centers, performing repairs for office equipment and other electronic related companies.

The courses under this program are only offered 1st block. Since these courses are taught by college instructors at the South Texas College Technology Campus, bus transportation will be provided. The bus will leave from the high school at 7:30 a.m. Personal transportation is allowed pending pre-approval and will be contingent upon obtaining a parking permit from the student’s home campus and STC. Course offerings are dependent on the availability of STC staff, and specific courses will only be offered if the minimum enrollment requirements are met. See your counselor for more detailed information regarding this off-campus program.

Local Course Numbers….1014 & 2014
Grade Placement .......... 11-12
Credits .................... 1 Credit per Course
Pre-Requisite ............ 2-Year Commitment, [Application Process]
PEIMS ID .................. Vary depending on the specific courses taken

DECSA is a year-round dual enrollment program developed for high school students who are seriously interested in pursuing a career in computer science. The purpose of the program is to increase the number of area students committed to careers and service in computer programming, design and computer high-tech fields. For more information visit:

http://academicaffairs.southtexascollege.edu/highschool/academies/decsa/
Courses in this cluster focus on planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.

CORRECTIONAL SERVICES

Local Course Number… 0337  
Grade Placement ……… 11-12  
Credits ..................... 1  
Pre-Requisite .............. Principles of Law, Public Safety, Corrections, and Security  
PEIMS ID .................... 13029700

In this course, students prepare for certification required for employment as a correctional officer. Students will learn the role and responsibilities of a correctional officer; discuss relevant rules, regulations, and laws; and discuss defensive tactics, restraint techniques, and first aid procedures as used in the correctional setting. Students will also analyze rehabilitation and alternatives to institutionalization.

COURT SYSTEMS AND PRACTICES

Local Course Number… P926  
Grade Placement ……… 10-12  
Credits ..................... 1  
Pre-Requisite .............. Law Enforcement I; [Teacher Approval Required]  
PEIMS ID .................... 13029600

This course 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.

FORENSIC SCIENCE

Local Course Number… 0906  
Grade Placement ……… 11-12  
Credits ..................... 1 Science Credit  
Pre-Requisite .............. Biology, Chemistry and Physics

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

**FORENSIC SCIENCE PRE-AP**

*Local Course Number... 0910*
*Grade Placement ....... 11-12*
*Credits ...................... 1 Science Credit*
*Pre-Requisite ............. Biology, Chemistry and Physics*
*PEIMS ID .................. 13029500*

This course covers the same concepts as Forensic Science. The content is studied in greater depth and may include additional topics. This course is highly recommended for students interested in pursuing a career in law, public safety, corrections, and security occupations.

**LAW ENFORCEMENT I**

*Local Course Number... 0338*
*Grade Placement ....... 10-12*
*Credits ..................... 1*
*Pre-Requisite ............. Principles of Law, Public Safety, Corrections, and Security*
*PEIMS ID .................. 13029300*

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

**LAW ENFORCEMENT II**

*Local Course Number... 0555*
*Grade Placement ....... 11-12*
*Credits ..................... 1*
*Pre-Requisite ............. Law Enforcement I*
*PEIMS ID .................. 13029400*
This course provides the knowledge and skills necessary to prepare for a career in law enforcement. It covers topics such as, ethical and legal responsibilities, operation of police and emergency telecommunication equipment, and courtroom testimony.

PRACTICUM IN LAW, PUBLIC SAFETY, CORRECTIONS, AND SECURITY

Local Course Numbers… 0557 & 2557
Grade Placement …….. Graduating Junior - 12
Credits ………………… 1 Credit per Term
Pre-Requisite ………… Two Other Credits from this Career Pathway;
[Teacher Approval Required]
PEIMS ID ……………… 13030100

This course provides the knowledge and skills necessary to prepare for a career in law enforcement. It covers topics such as, ethical and legal responsibilities, operation of police and emergency telecommunication equipment, and courtroom testimony. This course may offer the National Emergency Communications (NECC) 9-1-1 certification opportunity. Specific criteria must be met to qualify for this examination.

PRINCIPLES OF LAW, PUBLIC SAFETY, CORRECTIONS, AND SECURITY

Local Course Number… 0339
Grade Placement …….. 9-12
Credits ………………… 1
Pre-Requisite …………. None
PEIMS ID ……………… 13029200

This course introduces students to professions in law enforcement, security, corrections, and fire and emergency management services. It provides students with an overview of the skills necessary for careers in law enforcement, fire service, security, and corrections. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services.

STC INTRODUCTION TO CRIMINAL JUSTICE DUAL ENROLLMENT
CRIJ 1301

* * * High School Law Enforcement II Elective Credit * * *

Local Course Number… 0334
Grade Placement …….. 11-12
Credits ………………… ½
Pre-Requisite …………. Meet Dual Enrollment Program Criteria
PEIMS ID ……………… 13029400
This course is a multi-disciplinary overview and analysis of the major agencies, personnel and decision-making points which comprise the criminal justice system. Included are a survey of problems and issues confronting legislatures, police, courts, corrections and the community as they respond to crime in a free society. Legal precedents guiding the decisions of criminal justice agents are also discussed. Prerequisite: TSI Reading 351; or STAAR English II EOC 4000; or ACT English 19, Math 19, Composite 23; or SAT English 500, Math 500, Composite 1070. Minimal tuition required. This course must be taken in conjunction with STC Fundamentals of Criminal Law Dual Enrollment.

STC FUNDAMENTALS OF CRIMINAL LAW DUAL ENROLLMENT
CRIJ 1310

*** High School Law Enforcement II Elective Credit ***

Local Course Number… 0335
Grade Placement ……… 11-12
Credits …………………. ½
Pre-Requisite ……….. Meet Dual Enrollment Program Criteria
PEIMS ID ……………. 13029400

This course is a study of the nature of criminal law; historical and philosophical development of law in society; major definitions and concepts; classifications of crime; elements of crime and penalties using the Texas statutes as illustrations, and criminal responsibility. Prerequisite: TSI Reading 351; or STAAR English II EOC 4000; or ACT English 19, Math 19, Composite 23; or SAT English 500, Math 500, Composite 1070. Minimal tuition required. This course must be taken in conjunction with STC Introduction to Criminal Justice Dual Enrollment.

STC DUAL ENROLLMENT CRIMINAL JUSTICE ACADEMY (DECJA)

Local Course Numbers….TBD
Grade Placement ……… 11-12
Credits …………………. 1 Credit per Course
Pre-Requisite ……….. 2-Year Commitment, [Application Process]
PEIMS ID ……………. Vary depending on the specific courses taken

The Dual Enrollment Criminal Justice Academy is designed to encourage area high school students into the criminal justice professions by providing college course-work and opportunities that will motivate, educate, and prepare students for higher education in the field of criminal justice. With the support of the local law enforcement professionals, DECJA will promote and participate in efforts that will reinforce the schools' and communities' commitment to prepare students for careers in criminal justice. For more information, visit: http://academicaffairs.southtexascollege.edu/highschool/academies/decja.html
Courses in this cluster focus on planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.

CIVIL ENGINEERING AND ARCHITECTURE – PLTW PROGRAM COURSE

Local Course Number…0914
Grade Placement …….. 10-12
Credits ..................... 1
Pre-Requisite ................ Principles of Engineering
PEIMS ID .................. N1303747

Students learn important aspects of building and site design and development, applying math, science, and standard engineering practices to design both residential and commercial projects. They document designs using 3D architecture design software. Some students have seen these designs come to life through partnerships with local housing organizations.

DIGITAL ELECTRONICS PRE-AP – PLTW PROGRAM COURSE

Local Course Number…0913
Grade Placement …….. 11-12
Credits ....................... 1 Math Credit Starting with Class of 2014 and Beyond
Pre-Requisite ................ Principles of Engineering
PEIMS ID .................. 13037600

From smart phones to appliances, digital circuits are all around us. This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry including logic gates, integrated circuits, and programmable logic devices.

ENGINEERING DESIGN AND DEVELOPMENT – PLTW PROGRAM COURSE

Local Course Number…0928
Grade Placement …….. 12
Credits ....................... 1
Pre-Requisite ................ Principles of Engineering
PEIMS ID .................. N1303749
The knowledge and skills students acquired in the previous PLTW courses, come together in this course as students identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing EDD ready to take on any post-secondary program or career.

**INTRODUCTION TO ENGINEERING DESIGN – PLTW PROGRAM COURSE**

*Local Course Number...0911*
*Grade Placement ....... 9-12*
*Credits .................. 1*
*Pre-Requisite ............ None*
*PEIMS ID ............... N1303742*

In this course, students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software and document their work in an engineering notebook.

**PRINCIPLES OF ENGINEERING PRE-AP – PLTW PROGRAM COURSE**

*Local Course Number...0912*
*Grade Placement ....... 11-12*
*Credits .................. 1 Science Credit Starting with Class of 2014 and Beyond*
*Pre-Requisite ............ Introduction to Engineering Design*
*PEIMS ID ............... 13037500*

Through problems that engage and challenge, students explore a broad range of engineering topics including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

**SCIENTIFIC RESEARCH AND DESIGN**

*Local Course Number...0446*
*Grade Placement ....... 11-12*
*Credits .................. 1 Science Credit*
*Pre-Requisite ............ Biology, Chemistry, and Physics*
*PEIMS ID ............... 13037200*

This course covers the processes of science to include content that is innovative and detailed. Students conduct in-depth guided or independent research in any of the science disciplines. Their research must be presented to an appropriate audience. Students enrolled in this course should show an aptitude for math.
**SCIENTIFIC RESEARCH AND DESIGN PRE-AP**

*Local Course Number…0441*

*Grade Placement ………. 11-12*

*Credits …………………. 1 Science Credit*

*Pre-Requisite ………… Biology, Chemistry, and Physics*

*PEIMS ID ………………. 13037200*

This course covers the same concepts as Scientific Research and Design. The content is studied in greater depth and may include additional topics. This course is highly recommended for students interested in pursuing a career in science, technology, engineering, and mathematics (STEM) occupations.

**STC DUAL ENROLLMENT COMPUTER SCIENCE ACADEMY (DECSA)**

*Local Course Numbers….1014 & 2014*

*Grade Placement ………. 11-12*

*Credits …………………. 1 Credit per Course*

*Pre-Requisite ………… 2-Year Commitment, [Application Process]*

*PEIMS ID ………………. Vary depending on the specific courses taken*

DECSA is a year-round dual enrollment program developed for high school students who are seriously interested in pursuing a career in computer science. The purpose of the program is to increase the number of area students committed to careers and service in computer programming, design and computer high-tech fields. For more information visit: [http://academicaffairs.southtexascollege.edu/highschool/academies/decsa/](http://academicaffairs.southtexascollege.edu/highschool/academies/decsa/)

**STC DUAL ENROLLMENT ENGINEERING ACADEMY (DEEA)**

*Local Course Numbers….1006 & 2006*

*Grade Placement ………. 11-12*

*Credits …………………. 1 Credit per Course*

*Pre-Requisite ………… 2-Year Commitment, [Application Process]*

*PEIMS ID ………………. Vary depending on the specific courses taken*

DEEA is a year-round dual enrollment program developed for high school juniors and seniors who are seriously interested in pursuing a career in Engineering. The purpose of the program is to increase the number of area students committed to careers in Manufacturing, Electrical, Industrial Engineering, and others. For more information, visit: [http://academicaffairs.southtexascollege.edu/highschool/academies/deea/](http://academicaffairs.southtexascollege.edu/highschool/academies/deea/)
Courses in this cluster focus on the planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

**STC AUTOMOTIVE TECHNOLOGY PROGRAM**

Local Course Numbers: 1003 & 2003  
Grade Placement: 11-12  
Credits: 1 Credit per Term  
Pre-Requisite: None  
PEIMS ID: Vary depending on the specific courses taken

The Automotive Technology program is designed to prepare students for employment in the high technology automotive service industry. Students will gain knowledge in automotive air conditioning, electrical systems, fuel injection, transmissions and transaxles, engine performance, brake systems, steering and suspension systems, and computerized automotive control systems. Emphasis will be placed on hands-on learning in the labs to develop diagnostic and troubleshooting skills, as well as repair procedures.

The courses under this program are only offered 1st block. Since these courses are taught by college instructors at the South Texas College Technology Campus, bus transportation will be provided. The bus will leave from the high school at 7:30 a.m. Personal transportation is allowed pending pre-approval and will be contingent upon obtaining a parking permit from the student’s home campus and STC. Course offerings are dependent on the availability of STC staff, and specific courses will only be offered if the minimum enrollment requirements are met. See your counselor for more detailed information regarding this off-campus program.

**STC DIESEL TECHNOLOGY PROGRAM**

Local Course Numbers: 1005 & 2005  
Grade Placement: 11-12  
Credits: 1 Credit per Term  
Pre-Requisite: None  
PEIMS ID: Vary depending on the specific courses taken

The Diesel Technology industry is a rapidly growing industry which is requiring a growing number of qualified technicians. The Diesel Technology student will acquire the knowledge and
skills necessary for the repair of diesel engines, electrical and electronic control systems, hydraulic systems, air brakes, suspension, steering, and transmissions through a combination of lecture and lab work, to include troubleshooting and diagnostic procedures.

The courses under this program are only offered 1st block. Since these courses are taught by college instructors at the South Texas College Technology Campus, bus transportation will be provided. The bus will leave from the high school at 7:30 a.m. Personal transportation is allowed pending pre-approval and will be contingent upon obtaining a parking permit from the student’s home campus and STC. Course offerings are dependent on the availability of STC staff, and specific courses will only be offered if the minimum enrollment requirements are met. See your counselor for more detailed information regarding this off-campus program.