

**Canyon Lake High  
School  
Course Guide  
2019-2020**

# Canyon Lake High School

## Course Guide

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#### BOARD OF TRUSTEES

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**GRADUATION PLAN**  
**Graduating Class of 2018 & Beyond**  
*(Students entering high school in 2014 and beyond)*

Foundation Program	22 Credits	Taken	Foundation Program with an Endorsement	26 Credits	Taken
English I	1		English I	1	
English II	1		English II	1	
English III	1		English III	1	
English IV	1		English IV	1	
Algebra I	1		Algebra I	1	
Geometry	1		Geometry	1	
Advanced Mathematics Course	1		Advanced Mathematics Course	1	
Biology	1		Additional Advanced Mathematics Course	1	
IPC or Advanced Science Course	1		Biology	1	
Advanced Science Course	1		IPC or Advanced Science Course	1	
Word History or World Geography (Both are recommended by Comal ISD)	1		Advanced Science Course	1	
U.S. History	1		Additional Advanced Science Course	1	
U.S. Government	.5		World History or World Geography	1	
Economics	.5		U.S. History	1	
Physical Education	1		U.S. Government	.5	
World Languages	2		Economics	.5	
Fine Arts	1		Physical Education	1	
Additional Electives	5		World Languages	2	
			Fine Arts	1	
			Additional Electives	7	

# General Information

Please Note:

Specific school-related questions should be directed to campus staff. When a parent or guardian has a question or concern, he or she should contact the person who made the initial decision. After discussing the matter, if the concern continues, the principal should be contacted.

## Grade Level Classifications

All students entering high school as a Freshman will need to meet the following credit requirements.

Freshman	1st year	0-4.5 earned credits
Sophomore	2nd year (+)	5-9.5 earned credits
Junior	3rd year (+)	10-17.5 earned credits
Senior	4th year (+)	18 earned credits

These classifications are based on the number of credits actually completed prior to registration

## Grade Averaging

For a two-semester course in which both semesters are completed in the same school year, each semester's grade stands on its own; however, a full credit will be awarded if the average of both semesters is at least 70. Students transferring in during the spring semester with a failing fall semester grade may receive credit under this policy.

## Ranking Classification

1. Recognition for academic honors will be given to the following graduating seniors:

- a. Valedictorian - Highest-ranking student
- b. Salutatorian - Second highest-ranking student
- c. Honor students –
  - Summa Cum Laude - be in top 5% of class
  - Magna Cum Laude - be in top 10% of class
  - Cum Laude - be in top 15% of class

2. To be eligible for valedictorian or salutatorian, a student shall have been enrolled in a Comal ISD high school for two full years immediately prior to graduation and must be a fourth year student.

3. The following numerical values will be used for letter grades transferred to the school:

A+ = 97	B+ = 87	C+ = 79	D+ = 74	F = 60
A = 94	B = 84	C = 77	D = 72	
A- = 90	B- = 80	C- = 75	D- = 70	

## Class Rank

Class rank is the academic position a student has in relation to other students in the grade level. The student with the highest rank average is number one in the grade level and the student with the lowest rank average is the last student in the grade level. All other students are ranked in between highest (number one) and lowest (last). Class rank is reported comparing that student to the total number of students in the grade level. Students will receive a higher weighted rank point for the more difficult level courses.

For example, given 250 students in a grade level, the highest ranked student (number one) would be reported as 1 of 250; lowest ranking students would be reported as 250 of 250.

Weighted class ranking encourages students to take more challenging academic courses in preparation for further

learning after high school. Institutions of higher learning require a student's class rank for admission purposes.

The weighted rank chart on page 10 is used to calculate a student's weighted cumulative rank average and is not reflected in the actual numerical grade recorded for each course on the academic achievement record (transcript), or the report card. Actual numerical semester grades are converted to weighted rank points according to the Weighted Class Rank Chart. Please see page 11 for a complete list of courses used to calculate class ranking.

Official class standing reports shall be issued to students each school year. Senior class ranking for the purpose of determining Valedictorian and Salutatorian is calculated at the end of the eighth semester. Other honor graduates will be calculated at the end of the seventh semester.

Please refer to Board Policy EIC Local for further details regarding Academic Honors for Seniors.

## Pre-Advanced Placement (Pre-AP), Advanced Placement (AP), and Dual Credit Courses

### Pre-Advanced Placement (Pre-AP) Courses

Pre-AP courses at the high school include activities and strategies designed to engage students in active, high-level learning. Students will develop the skills, habit of mind, and concepts needed to succeed in college. Depth of material requires students to read and write extensively in and out of class. All students are encouraged to take at least one advanced academics course each year of their high school experience.

### Advanced Placement (AP) Courses

AP Courses are developed by the College Board and are designed to provide college level studies for high school students using college level materials and strategies. Amount and depth of material requires students to read and requires students to develop advanced reasoning and problem solving skills.

### AP and Pre-AP Grading Policies

Student performance is evaluated on rigorous standards appropriate for the grade and content of the course. Courses are weighted when figuring class rank; however, actual grades earned will appear on all report cards and transcripts. In order to receive weighted points at the semester for an AP or Pre-AP course, the student must be enrolled in the advanced course for the entire semester and fulfill all requirements for the course. If the course is dropped within a semester, the un-weighted grade transfers to the new class.

### Should students take all Pre-AP or AP Classes?

Students are encouraged to challenge themselves but also to find a balance among advanced courses, extra-curricular activities, and outside activities. Students should not feel that they have to take all classes at the Pre-AP/AP level. The decision on the number of Pre-AP/AP classes should be an individual decision based on the schedule and interest of each student.

### Dual Credit Courses

Dual credit courses are offered to students interested in taking College Credit courses while still in high school. Students are taught and graded in the same way as college students who take the same course. CISD has analyzed college courses against the state curriculum and has determined which courses will be accepted as dual credit. Students will receive college credit from the Dual Credit Institution/College immediately

after they complete the course. Most courses will transfer to any public Texas college or university when a student earns a "C" or better. All college level courses are not "dual credit" courses; however, there are a variety of courses offered in both the Academic and Career and Technology Areas. This list may be obtained from the school counselor. Students are responsible for completing the college application process within a designated time frame and making arrangements to take the on-line entrance exam prior to enrollment in Dual Credit courses.

#### **Gifted and Talented Program for High School Students**

In Comal ISD, the needs of Gifted and Talented students are met in several ways. In the four core subject areas – Language Arts, Mathematics, Science and Social Studies – identified gifted students may choose to participate in Pre-Advanced Placement and Advanced Placement courses with gifted instruction being provided by teachers trained in both Gifted Education and Advanced Placement methodologies.

#### **Graduation Ceremony Participation and Diploma Requirements**

The following guidelines will be used for fourth/fifth year students to be able to participate in the graduation ceremony and receive a diploma from the home campus:

1. Students entering high school as a freshman in 2011 or thereafter are expected to meet the following conditions in order to receive a diploma:
  - a. Complete **ALL** credit requirements
  - b. Pass all required EOC exams (English I, English II, Algebra I, Biology, United States History) with a scale score indicating satisfactory performance
2. Students may only participate in one graduation ceremony.

#### **Early Graduation**

Students who anticipate completing high school in fewer than four years must file an application for early graduation in the counselor's office. Students graduating early may participate in graduation ceremonies only if all graduation requirements are completed prior to the graduation ceremony. Students may not be ranked higher than 3rd in the senior class rank and shall share the third ranking position with fourth year student.

Students wishing to graduate early will need to schedule a meeting with their school counselor. The student's 4 year plan will need to be adjusted in order to plan for the early graduation. Students declaring early graduation in 3.5 years will need to have a completed Request for 3.5 year Early Graduation Form and on file with their counselor no later than the last day of their Junior year. Students declaring early graduation in 3 years will need to have a completed Request for 3 year Early Graduation Form and on file with their counselor no later than the last day of their Sophomore year.

It is the responsibility of the student to attend graduation rehearsal, pick up cap and gown, and pick up invitations at the designated times. Students who graduate early and wish to participate in graduation exercises will be required to abide by the same school rules and regulations as other students. Students who are not enrolled in Comal ISD in the spring semester shall be able to participate in senior activities during the remainder of the year with principal approval. This includes such activities as the senior trip, junior-senior prom, and other class functions. Diplomas shall be awarded at the end of the school year.

#### **College Assessment Information**

Students entering public community colleges or universities in Texas must meet minimum standards as established by the Texas Higher Education Coordinating Board as part of the Texas Success Initiative before enrolling in any college course work. Students not meeting minimum standards may have to take an

additional test to demonstrate college readiness. The campus college and career center has detailed college registration and exemption information. Please contact the individual college to see what standards or tests are required.

#### **Automatic Admission to Texas Public University for Top 10%**

Top students in Texas are eligible for automatic admission to any public university in Texas under state admissions policies. Under House Bill 588 passed by the 75<sup>th</sup> Legislature in 1997, students who are in the top 10 percent of their graduating class are eligible for automatic admission to any public university in Texas. However, SB 175 caps the number of students admitted under the top 10% law and UT is required to offer automatic admission to 75% of the university's enrollment capacity designated for first-time resident undergraduate students in an academic year; thus, acceptance rates will vary. The University will determine the acceptance rate.

To be eligible for the top 10 percent automatic admission, a student must:

- Graduate in the top 10 percent of his/her class at a public or private high school in Texas;
- Enroll in college no more than two years after graduating from high school; and
- Submit an application to a Texas public university for admission before the institution's application deadline. Since deadlines vary, please check with the specific university to verify the application deadline.

Once a student is admitted, a university may review a student's high school records to determine if the student is prepared for college-level course work. A student who needs additional preparation may be required to take a developmental, enrichment, or orientation course during the semester prior to the first semester of college.

*The Texas Higher Education Coordinating Board was responsible for creating rules for this new admissions policy and adopted the "top 10 percent" rules in October 1997. For more information, see Appendix B.*

#### **Alternative Credit Opportunities**

All credits earned through alternative means, as described below, will be used in determining academic honors. All grades earned, including high school courses taken at the middle school, will be used in class ranking except for those courses not included in the ranking system. Grades transferred must be from a four-year accredited high school to be accepted. If a student transfers from an unaccredited school, only grades earned through Comal ISD high school will be used for determining averages for ranking for academic honors.

#### **Correspondence Courses**

Students may use distance-learning courses, including correspondence courses, as a means of earning credit in a subject or course. In order to receive credit, a student shall obtain approval from the principal or designee prior to enrollment in the course. Only correspondence courses from the University of Texas (Austin) or Texas Tech University are acceptable. Seniors should complete their work and submit the grade for recording at least thirty days prior to their graduation date in order to be eligible for graduation at the end of the term.

#### **Credit by Examination with Prior Instruction**

A student who has previously taken a course or subject – but did not receive credit for it – may, in circumstances determined by the principal or attendance committee, be permitted to earn credit by passing an exam on the essential knowledge and skills defined for that course or subject. Prior instruction may include, for example, incomplete coursework due to a failed course or excessive absences, home-schooling, or coursework by a student transferring from a non-accredited school. The counselor or principal will determine if the student

is able to take the exam for this purpose. If approval is granted, the student must score at least a 70 on the exam to receive credit for the course or subject. The attendance review committee may also offer a student with excessive absences an opportunity to earn credit for a course by passing the exam. [For further information, visit your counselor and policy EHDB (LOCAL).] The cost of the exam will be the responsibility of the student.

#### **Credit by Examination for Acceleration**

A student will be permitted to take an exam to earn credit for an academic course for which the student has had no prior instruction or to accelerate to the next grade level. Students may take exams offered by the University of Texas or Texas Tech University for courses in which no prior instruction has been received. A score of 80 must be achieved. Test dates will be published in the spring and fall. Credit by examination for acceleration may be attempted a maximum of two times in each course. Once the credit is earned through Credit by Examination for Acceleration, the student will not be allowed to retest. There is no limit to the number of credits that can be earned through credit by exam. Students should contact a counselor for registration information.

#### **Credit Obtained through College Programs**

Comal ISD (CISD) provides college level opportunities for credit. Students must meet eligibility and enrollment requirements at the participating college. To receive credit toward a Performance Acknowledgement, the grade must be a "B" or better.

- **Dual Credit** – Dual credit is offered to students interested in taking College Credit courses while still in high school. Students are taught and graded in the same way as college students who take the same course. CISD has analyzed college courses against the state curriculum and has determined which courses will be accepted as dual credit. Students will receive college credit from the Dual Credit Institution/College immediately after they complete the course. Most courses will transfer to any public Texas college or university when a student earns a "C" or better. All college level courses are not "dual credit" courses, however there are a variety of courses offered in both the Academic and Career and Technology Areas. This list may be obtained from the school counselor. Students are responsible for completing the college application process within a designated time frame and making arrangements to take the on-line entrance exam prior to enrollment in Dual Credit courses. A student may take a maximum of two courses per semester at no cost to the student.
- **Concurrent Enrollment** – Concurrent enrollment courses are college courses students can take for college credit while enrolled in high school. Concurrent courses count toward a Performance Acknowledgement.

#### **Texas Virtual School Network**

During the 80th Texas Legislative Session, Senate Bill 1788 established a state virtual school network to provide online courses for Texas students. The Texas Virtual School Network (TxVSN) first offered courses to students in Texas districts and open enrollment charter schools beginning January 2009. Course offered for grades 8-12 ensure 100% alignment with the Texas Essential Knowledge and Skills as well as the INACOL National Standards of Quality for Online Courses. All courses offered through the TxVSN are provided by public school districts, open-enrollment charter schools, institutions of higher education, or education service centers. All high school courses are taught by an instructor that is Texas-certified in the course subject area and grade level that have completed a TxVSN approved professional development on effective online

instruction. **Tuition and fees for TxVSN courses will be the responsibility of the student and parent.** For more information regarding the TxVSN or other online course opportunities, please see your high school Academic Dean. You may also visit the TxVSN website at <http://www.txvsn.org/>.

#### **Summer School/Semester**

Students may attend an accredited summer school, provided that approval of the principal or counselor is obtained before enrolling. Summer school work can be used for the purpose of making up work that has been failed during the regular term, strengthening areas where a student is weak, giving a student an opportunity to avail himself/herself of courses that cannot be taken during the regular term because of scheduling conflicts, and obtaining credits for acceleration purposes.

#### **Credit Recovery**

Student may gain credit through computer-assisted instruction for courses previously failed. Not all courses are eligible for recovery. Students should contact their school counselor for information.

#### **The Advanced Technical Credit Program (Statewide Articulation)**

is an advanced placement program initiated to provide a method for high school students who continue technical programs of study in college to receive credit for knowledge and skills without duplication of coursework. Students successfully demonstrating college level competence in content enhanced high school courses are eligible to receive banked (in escrow) credit for courses that are part of an associate of applied science (AAS) degree or certificate plan offered by public two-year colleges. Some universities may also honor these courses, particularly those that offer BAAS, BAT, BSIS, or similar baccalaureate degrees.

#### **Transcript of Credits**

Many schools and colleges require students to submit a copy of their high school record before entering. If students plan to move to another school district, students should request the registrar to send the transcript to the student's new school at the time of withdrawal. If a student plans to attend college, the transcript should be requested sufficiently early for receipt by the college registrar before the end of July. Transcripts will be sent only by request. Students under the age of 18, who want their transcript sent to a college, must have a parent signature of approval.

#### **NCAA Guidelines**

All high-school athletes wishing to compete in college athletics must register with the Initial-Eligibility Center. Information about eligibility can be found in the Guide for the College-Bound Student-Athlete at [www.eligibilitycenter.org](http://www.eligibilitycenter.org). Students who are interested in attending college on athletic scholarships should carefully select high school courses that qualify under the National Collegiate Athletic Association guidelines. After you have registered and paid appropriate fees, please submit paperwork to the high school registrar.

#### **Course Availability**

Courses are offered according to student need and teacher availability. Students and parents are reminded that course selection determines how the school's schedule is built, faculty is hired and room assignments are made.

#### **Schedule Changes**

Schedule changes can have a significant impact on the calculation of the nine-weeks average. Therefore, schedule changes will be considered for the following reasons only:

- The student is a senior not scheduled in a course needed for graduation.
- The student has already earned credit for a course in which he/she is currently scheduled.
- The student does not have the prerequisite(s) for a class listed on his/her schedule.
- The student has previously failed this course under the



same teacher.

- The student has been dismissed from a program for which approval must be granted for placement.
  - The student does not have a full schedule.
  - There is a data entry error (no lunch, class listed twice, free period, etc.).
  - Other as approved by building administrator or designee.
  - Course level changes:
- To transfer to a lower level class, the student must have made a sincere effort to succeed, as determined by the campus personnel, by completing work and attending tutorials. If these conditions are met and the student is earning less than a grade of 75, that student will be considered for a change. An administrator or administrative designee must approve schedule changes. State law mandates 90% attendance in each class each semester.

An administrator or administrative designee must approve schedule changes. State law mandates 90% attendance in each class each semester.

### **Course Selection**

The school cannot take the total responsibility for the proper choice of subjects for either students' graduation or college entrance. Students should carefully check the local graduation requirements and the catalog of the college of choice before choosing courses. A useful reference site in this regard is [www.collegeboard.org](http://www.collegeboard.org). Under no circumstances should students depend on any high school official to choose the correct courses for their future. The counselors, the administration, or other faculty members will be glad to assist students at any time, but students and parents must make the final choice. The parent must approve changes. The administrator or administrative designee must approve schedule changes. The Foundation High School Plan is one of the requirements to receive additional State financial aid. The Texas Grant and Exemption Program is an award of varying amounts to assist certain students who graduate on the Foundation High School Program with college expenses. For more information, visit [www.collegeforalltexans.com/](http://www.collegeforalltexans.com/) or call 1-800-242-3062 x6344.

### Class Rank Chart

Actual Grade	1.0 – General Education	1.1 – Pre-AP	1.2 – Dual Credit	1.25 Advanced Placement
<b>100</b>	<b>100</b>	<b>110</b>	<b>120</b>	<b>125</b>
99	<b>99</b>	108.9	118.8	123.75
98	<b>98</b>	107.8	117.6	122.50
97	<b>97</b>	106.7	116.4	121.25
96	<b>96</b>	105.6	115.2	120.00
95	<b>95</b>	104.5	114.0	118.75
94	<b>94</b>	103.4	112.8	117.50
93	<b>93</b>	102.3	111.6	116.25
92	<b>92</b>	101.2	110.4	115.00
91	<b>91</b>	100.1	109.2	113.75
<b>90</b>	<b>90</b>	<b>99.0</b>	<b>108.0</b>	<b>112.50</b>
89	<b>89</b>	97.9	106.8	111.25
88	<b>88</b>	96.8	105.6	110.00
87	<b>87</b>	95.7	104.4	108.75
86	<b>86</b>	94.6	103.2	107.50
85	<b>85</b>	93.5	102.0	106.25
84	<b>84</b>	92.4	100.8	105.00
83	<b>83</b>	91.3	99.6	103.75
82	<b>82</b>	90.2	98.4	102.50
81	<b>81</b>	89.1	97.2	101.25
<b>80</b>	<b>80</b>	<b>88.0</b>	<b>96.0</b>	<b>100.00</b>
79	<b>79</b>	86.9	94.8	98.75
78	<b>78</b>	85.8	93.6	97.50
77	<b>77</b>	84.7	92.4	96.25
76	<b>76</b>	83.6	91.2	95.00
75	<b>75</b>	82.5	90.0	93.75
74	<b>74</b>	81.4	88.8	92.50
73	<b>73</b>	80.3	87.6	91.25
72	<b>72</b>	79.2	86.4	90.00
71	<b>71</b>	78.1	85.2	88.75
<b>70</b>	<b>70</b>	<b>77.0</b>	<b>84.0</b>	<b>87.50</b>

## Explanation of Eligibility for Automatic College Admission

Under the Automatic Admission policy (Texas Education Code §51.803), Texas students may be eligible for automatic admission to a state college or university as an undergraduate student if they meet certain criteria. To qualify for automatic admission, a student **must**:

- (1) the applicant graduated from a public or private high school in this state accredited by a generally recognized accrediting organization or from a high school operated by the United States Department of Defense;
- (2) the applicant:
  - (A) Successfully completed:
    - (i) at a public high school, the curriculum requirements established under Section 28.025 for the distinguished level of achievement under the foundation high school program; or
    - (ii) at a high school to which Section 28.025 does not apply, a curriculum that is equivalent in content and rigor to the distinguished level of achievement under the foundation high school program; or
  - (B) satisfied ACT's College Readiness Benchmarks on the ACT assessment applicable to the applicant or earned on the SAT assessment a score of at least 1,500 out of 2,400 or the equivalent; and
  - (3) if the applicant graduated from a high school operated by the United States Department of Defense, the applicant is a Texas resident under Section 54.052 or is entitled to pay tuition fees at the rate provided for Texas residents under Section 54.241 (d) for the term or semester to which admitted.

### Admission and Enrollment

State colleges and universities may admit a student accepted under the Automatic Admission policy for either the fall semester of the academic year for which the student applied or for the summer session that precedes that fall semester. Additionally, the admitting college or university may require that applicants in need of additional preparation for college-level work enroll in enrichment courses or programs during the summer immediately after the student is admitted. Colleges and universities are required to admit an applicant as an undergraduate student if the applicant is the child of a public servant who was killed or fatally injured in the line of duty and who meets the minimum entrance requirements set by the college or university.

### \*The University of Texas at Austin

Beginning with admissions for the 2011-2012 school year, The University of Texas at Austin (UT) is no longer required to automatically admit applicants in excess of 75% of its enrollment capacity for first-time resident undergraduate students. Should the number of applicants who qualify for automatic admission exceed 75% of enrollment capacity, UT shall provide notice of the percentage of qualified applicants that are anticipated to be offered admission. For the 2018-2019 academic year, UT has determined that it will automatically admit all eligible applicants who rank within the **top 6%** of their high school graduating classes. For the 2019-2020 academic year, UT has determined that it will automatically admit all eligible applicants who rank within the **top 6%** of their graduating classes. Please note that students admitted to UT under the Automatic Admission policy will be required to complete at least 6 semester credit hours during evening or other low-demand hours in order to ensure the efficient use of available classrooms.

### Additional Resources

For the complete text of this statute, please refer to the Texas Education Code (TEC), §51.803, available online at <http://www.statutes.legis.state.tx.us/Docs/ED/htm/ED.51.htm#51.803>.

For questions related to the Automatic Admission policy, please visit the Texas Education Agency's Automatic College Admission webpage at <http://www.tea.state.tx.us/index2.aspx?id=285632>.

A list of state colleges and universities appears in TEC §61.003(3), general academic teaching institutions, available online at <http://www.statutes.legis.state.tx.us/Docs/ED/htm/ED.61.htm#61.003>

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## Endorsements

Students entering high school in 2014 and beyond are required to declare an endorsement. These students are also eligible for a distinguished level of achievement and performance acknowledgements. The endorsements are selected from the following:

### **STEM**

A student entering high school in 2014 and beyond can earn a STEM endorsement by taking courses directly related to science; including environmental science, technology, including computer science; engineering; and advanced mathematics.

### **Business and Industry**

A student entering high school in 2014 and beyond can earn an endorsement in Business and Industry by completing courses directly related to database management, architecture, information technology, construction, communications, welding, accounting, logistics, finance, automotive technology, marketing, agricultural science, graphic design, culinary arts and hospitality, and HVAC.

### **Public Services**

A student entering high school in 2014 and beyond can earn an endorsement in Public Services by completing courses directly related to health sciences and occupations, education and training, and law enforcement.

### **Arts and Humanities**

A student entering high school in 2014 and beyond can earn an endorsement in Arts and Humanities by completing courses directly related to political science, English literature, world languages, history, cultural studies, and fine arts.

### **Multidisciplinary Studies**

A student entering high school in 2014 and beyond can earn an endorsement in Multidisciplinary Studies by completing courses from the curriculum of each endorsement area and earning credits in a variety of advanced courses from multiple content areas sufficient to complete the distinguished level of achievement.

### **Distinguished Level of Achievement**

A student may earn a distinguished level of achievement by successfully completing the curriculum requirements for the Foundation High School Program and the curriculum requirements for at least one endorsement, including four credits in science and four credits in mathematics to include Algebra II.

### **Performance Acknowledgements**

A student may earn a performance acknowledgment on the student's diploma and transcript for outstanding performance in a dual credit course by successfully completing:

- At least 12 hours of college academic courses with a grade equivalent of 3.0 or higher; or
- An associate degree while in high school.

For students who have participated in and met the exit criteria for a bilingual or English as a second language (ESL) program

and scored at the Advanced High level on the Texas English Language Proficiency Assessment System (TELPAS), the English language learner may earn a performance acknowledgment by:

- Completing all English language arts requirements and maintaining a minimum GPA of an 80 on a scale of 100; and
- Satisfying one of the following:
  - Completion of a minimum of three credits in the same language in a language other than English with a minimum GPA of an 80 on a scale of 100; or
  - Demonstrated proficiency in the TEKS for Level IV or higher in a language other than English with a minimum GPA of an 80 on a scale of 100; or
  - Completing of at least three credits in foundation subject area courses in a language other than English with a minimum GPA of an 80 on a scale of 100; or
  - Demonstrated proficiency in one or more languages other than English through one of the following methods:
    - A score of 3 or higher on a College Board Advanced Placement exam for a language other than English; or
    - Performance on a national assessment of language proficiency in a language other than English of at least Intermediate High or its equivalent.

A student may earn a performance acknowledgment by earning a score of 3 or above on a College Board Advanced Placement Exam.

A student may earn a performance acknowledgment by:

- Earning a score on the PSAT/NMSQT that qualifies the student for recognition as a commended scholar or higher by the College Board and National Merit Scholarship Corporation, as part of the National Hispanic Recognition Program of the College Board or as part of the National Achievement Scholarship Program of the National Merit Scholarship Corporation;
- Achieving the college readiness benchmark score on at least two of the four subject tests on the ACT-PLAN;
- Earning a combined critical reading and mathematics score of at least 1310 on the SAT; or
- Earning a composite score on the ACT exam of 28 (excluding the writing subscore)

A student may earn a performance acknowledgment for:

- Performance on an examination or series of examinations sufficient to obtain a nationally or internationally recognized business or industry certification; or
- Performance on an examination sufficient to obtain a government-required credential to practice a profession.

## Comal ISD Math Sequence (House Bill 5)

HB 5: Students that entered 9 <sup>th</sup> in 2014 – 2015	
<b>3 credits of Math:</b> Two credits must include Algebra I and Geometry One or combined ½ from additional math (Must follow TAC prerequisite requirements)	
A student may earn an Endorsement by successfully completing:	
<b>Curriculum requirements for the endorsement:</b> <b>A total of four credits in math</b> A total of four credits in science Two additional electives	<b>STEM Endorsement:</b> Biology Chemistry Physics Algebra II

CISD Recommended Math Sequence		
<b>9<sup>th</sup> Gr.</b>	Algebra I	PreAP Geometry
<b>10<sup>th</sup> Gr.</b>	Geometry	PreAP Algebra II
<b>11<sup>th</sup> Gr.</b>	Algebra II	PreAP PreCalculus
<b>12<sup>th</sup> Gr.</b>	PreCalculus Statistics Adv. Quantitative Reasoning Independent Study in Math Statistics Algebraic Reasoning UT OnRamps Statistics	UT OnRamps Computer Science DC Statistics DC College Algebra (0.5) DC College Algebra/Pre-Calculus AP Statistics AP Calculus AB AP Calculus BC

Course	Prerequisites by TAC/College Board	Course	Prerequisites by TAC/College Board
<b>Algebra I</b>	Successful completion of 8 <sup>th</sup> Grade Math or PreAP 7 <sup>th</sup> Grade math required	<b>College Algebra/ PreCalculus DC</b>	Geometry and Algebra II required
<b>Math Models</b>	Successful Completion of Algebra I required	<b>Advanced Quantitative Reasoning</b>	Successful completion of Geometry and Algebra II required
<b>Geometry PreAP Geometry</b>	Successful Completion of Algebra I required	<b>Engineering Math</b>	Successful completion of Algebra II required
<b>Algebra II PreAP Algebra II</b>	Successful Completion of Algebra I required	<b>Strategic Learning for HS Math</b>	Suggested Prerequisite: Algebra I and Geometry
<b>PreCalculus PreAP PreCalculus</b>	Successful Completion of Algebra I, Geometry, and Algebra II required	<b>Algebraic Reasoning</b>	Successful Completion of Algebra I required
<b>Statistics</b>	Successful Completion of Algebra I required	<b>Ind Study in Math/College Algebra DC</b>	Geometry and Algebra II
<b>AP Calculus AB AP Calculus BC</b>	Suggested Prerequisite: PreCalculus	<b>UT OnRamps Computer Science</b>	Successful completion of Algebra II required
<b>AP Statistics</b>	Successful completion of Algebra I required Suggested Prerequisite: Geometry and Algebra II	<b>College Prep A or B for Transition Math</b>	None
<b>UT OnRamps Statistics</b>	Successful completion of Algebra II required		

## Comal ISD Science Sequence (House Bill 5)

HB 5: Students that entered 9 <sup>th</sup> in 2014 – 2015	
<p><b>3 Credits of Science:</b>                      Must include Biology                      One from lab-based advanced science (IPC, Chemistry, Physics, etc.)                      One or combined 1/2 from advanced science (<i>Must follow TAC Pre-requisite requirements</i>)</p>	
A student may earn an Endorsement by successfully completing:	
<p><b>Curriculum requirements for the endorsement:</b>                      A total of four credits in math  <b>A total of four credits in science</b>                      Two additional electives</p>	<p><b>STEM Endorsement:</b>                      Biology                      Chemistry                      Physics                      Algebra II</p>

CISD Recommended Science Sequence	
9 <sup>th</sup> Gr.	Biology (or) Pre-AP Biology
10 <sup>th</sup> Gr.	Chemistry (or) Pre-AP Chemistry
11 <sup>th</sup> Gr.	Physics (or) AP Physics I
12 <sup>th</sup> Gr.	Advanced Science Course

Course	Prerequisites by TAC/College Board	Course	Prerequisites by TAC/College Board
<b>Biology</b> PreAP Biology	None	<b>Anatomy &amp; Physiology</b>	Completion of Biology and a second science course. Completion of a course from the Health Science Career Cluster is recommended
<b>Chemistry</b> PreAP Chemistry	One unit of high school science & Algebra I. Completion of or concurrent enrollment in a second year of math is recommended	<b>Aquatic Science</b>	Biology required and suggested completion or concurrent enrollment in Chemistry is recommended
<b>Physics</b>	Completion or concurrent enrollment in Algebra I is recommended	<b>Astronomy</b>	Completion of science graduation sequence recommended
<b>AP Physics I</b>	Successful completion of Geometry and concurrent enrollment or completion of Algebra II is recommended by College Board	<b>Environmental Systems</b>	Completion of science graduation sequence recommended
<b>Integrated Physics &amp; Chemistry (IPC)</b>	None	<b>Forensic Science</b>	Prerequisite: Biology & Chemistry. Completion or concurrent enrollment in any Law, Public Safety, Corrections, and Security Career Cluster course is recommended

Course	Prerequisites by TAC/College Board	Course	Prerequisites by TAC/College Board
<b>Earth &amp; Space</b>	Required prerequisites: three units of science, one of which may be taken concurrently, and three units of mathematics, one of which may be taken concurrently.	<b>AP Physics 2</b>	Prerequisite: Successful completion of AP Physics or equivalent course and concurrent enrollment or completion of Pre-Calculus per College Board
<b>Advanced Animal Science</b>	Prerequisites: Biology, Chemistry, or Integrated Physics and Chemistry (IPC); Algebra I and Geometry; and either Small Animal Management, Equine Science, or Livestock Production. Recommended prerequisite: Veterinary Medical Applications	<b>AP Physic C: Mechanics (Spring Sem)</b>	Successful completion or concurrent enrollment in Calculus per College Board
<b>Biotechnology I</b>	This course is recommended for students in Grades 11 and 12. Prerequisite: Biology and Chemistry. Recommended prerequisite: Principles of Biosciences	<b>AP Physic C: Electricity &amp; Magnetism (Fall Sem)</b>	Successful completion or concurrent enrollment in Calculus per College Board
<b>Advanced Plant and Soil Science</b>	Recommended prerequisites: Biology, Integrated Physics and Chemistry, Chemistry, or Physics and a minimum of one credit from the courses in the Agriculture, Food, and Natural Resources Career Cluster	<b>AP Biology</b>	Biology or Pre-AP Biology and Chemistry or Pre-AP Chemistry per College Board
<b>Engineering Design and Problem Solving</b>	Prerequisite: Algebra I and Geometry. Two Science, Technology, Engineering, and Mathematics (STEM) Career Cluster credits recommended.	<b>AP Chemistry</b>	Chemistry or Pre-AP Chemistry and Algebra I is recommended by College Board
<b>Food Science</b>	This course is recommended for students in Grades 11 and 12. Prerequisites: three units of science, including chemistry and biology. Recommended prerequisite: Principles of Hospitality and Tourism	<b>AP Environmental Science</b>	Successful completion of Algebra I, Pre-AP Biology or Biology, and Pre-AP Chemistry or Chemistry per College Board
<b>Medical Microbiology</b>	Prerequisites: Biology and Chemistry. Recommended prerequisite: a course from the Health Science Career Cluster	<b>Dual Credit Anatomy &amp; Physiology</b>	Prerequisite: Successful completion of Biology and second science course. St. Philip's Prerequisite: INRW 0420 and MATH 0320; Must follow dual credit process; TSI required for dual credit
<b>Pathophysiology</b>	Prerequisites: Biology and Chemistry. Recommended prerequisite: a course from the Health Science Career Cluster	<b>Dual Credit Chemistry</b>	Prerequisite: Successful completion of Biology, Chemistry and Physics St. Philip's Prerequisite: MATH 1314 or 1414 (College Algebra), INRW 0420, MATH 0320; Must follow dual credit process; TSI required for dual credit
<b>Principal of Technology</b>	Prerequisites: one unit of high school science and Algebra I. * Credit may not be earned for both physics and Principles of Technology to satisfy science credit requirements	<b>GeoScience - University of Texas OnRamps Dual Enrollment</b>	Prerequisites: Three units of science, one of which may be taken concurrently that include Biology and Chemistry. Three units of mathematics, one of which may be taken concurrently.
<b>Engineering Science</b>	This course is recommended for students in Grades 10-12. Prerequisite: Algebra I and Biology, Chemistry, Integrated Physics and Chemistry (IPC), or Physics		
<b>Scientific Research and Design</b>	This course is recommended for students in Grades 11 and 12. Prerequisite: Biology, Chemistry, Integrated Physics and Chemistry (IPC) or Physics.		

## Comal ISD Social Studies Sequence (House Bill 5)

HB5: Student that entered 9 <sup>th</sup> grade in 2014-2015	
<p><b>3 Credits of Social Studies:</b>                      World Geography <b>or</b> World History                      United States History from 1877 to the Present                      United States Government                      Economics</p>	
A student may earn an Endorsement by successfully completing:	
<p><b>Statutory Requirements:</b>                      -curriculum requirements necessary for the chosen endorsement                      -four credits in mathematics                      -four credits in science                      -two additional elective credits</p>	<p><b>Arts and Humanities Endorsement:</b>                      -Five Social Studies Credits                      -Four levels of the same language other than English                      -Two levels of the same language other than English and two levels of a different language other than English                      -Coherent sequence of Fine Arts or Innovative Courses                      -Four English elective credits from approved list from TEA</p>

CISD Recommended Social Studies Coherent Sequence		
9 <sup>th</sup> gr	World Geography 1.0	PAP World Geography 1.0
10 <sup>th</sup> gr	World History 1.0  <i>World Geography Studies Recommended</i>	<p><b>Social Studies Electives:</b>                      -Sociology .5                      -Psychology .5                      -Personal Financial Literacy .5                      -AP Human Geography .5                      -AP Psychology .5                      -AP European History 1.0                      -American Gov't/Research Methods DC .5                      -Special Topics: Multicultural Issues DC .5                      -SocStu Advanced Studies .5</p>
11 <sup>th</sup> gr	US History 1.0  <i>World History Studies Recommended</i>	
12 <sup>th</sup> gr	Government .5 Economics .5  <i>U.S. History Recommended</i>	
	AP World History 1.0	
	AP US History 1.0	
	AP US Government .5 AP Macroeconomics .5	



# Course Descriptions

Courses in this guide may not be offered in a given year. Other than required courses, courses may vary based on the number of student requests for the course.

A list of Dual Credit courses may be obtained from your school counselor. As a prerequisite for all Dual Credit courses, students are responsible for completing the college application process and making arrangements to take the on-line entrance exam prior to enrollment. Please visit with your school counselor for more information on Dual Credit opportunities.

## English Language Arts

### **English I – 1158**

**Credit: 1, Full Year**

**Prerequisite: None**

Students will develop an understanding for reading, writing, research, listening, speaking, and the oral and written conventions of the English language. Students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. In addition, students will continue to address earlier standards as needed while they attend to standards for their grade level. Students will read and write extensively in multiple genres and keep a portfolio of written work.

### **Pre-AP English I – 1157**

**Credit: 1, Full Year**

**Prerequisite: None**

The Pre-AP English class serves as the foundation for the Advanced Placement Program, specifically for AP English III Language and Composition and AP English IV Literature and Composition. Emphasis is placed on developing students' skills in critical, analytical and creative thinking, close reading, grammar, and composition. Students will read and write extensively in multiple genres and keep a portfolio of written work. A summer reading assignment may be required.

### **English II – 1258**

**Credit: 1, Full Year**

**Prerequisite: English I recommended**

Students will develop an understanding for reading, writing, research, listening, speaking, and the oral and written conventions of English. Students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. In addition, students will continue to address earlier standards as needed while they attend to standards for their grade level. Students will read and write extensively in multiple genres and keep a portfolio of written work.

### **Pre-AP English II - 1257**

**Credit: 1, Full Year**

**Prerequisite: English I recommended**

The Pre-AP English class serves as the foundation for the Advanced Placement Program, specifically for AP English III Language and Composition and AP English IV Literature and Composition. Emphasis is placed on developing students' skills in critical, analytical and creative thinking, close reading, grammar, and composition. Students will read and write extensively in multiple genres and keep a portfolio of written work. A summer reading assignment may be required.

### **English III – 1358**

**Credit: 1, Full Year**

**Prerequisite: English II recommended**

**Prerequisite: Must follow dual credit process; TSI required for dual credit.**

Students will develop an understanding for reading, writing, research, listening, speaking, and the oral and written conventions of English. Students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. In addition, students will continue to address earlier standards as needed while they attend to standards for their grade level. Students will read extensively from multiple genres with an emphasis on American literature. Students will write extensively and keep a portfolio of written work.

### **AP English III – 1356**

**Language and Composition**

**Credit: 1, Full Year**

**Prerequisite: English II recommended**

This college-level course prepares students to take the AP Language and Composition exam for possible college credit. Critical and creative thinking skills are developed through the reading and critical analysis of literature and language as well as required reading, discussion, essays, and exams. Students are required to use rhetorical analysis, critical evaluation, and advanced writing techniques. Students will read and write extensively and keep a portfolio of written work. A summer reading assignment may be required.

### **English IV – 1458**

**Credit: 1, Full Year**

**Prerequisite: English III recommended**

**Prerequisite: Must follow dual credit process; TSI required for dual credit.**

Students will develop an understanding for reading, writing, research, listening, speaking, and the oral and written conventions of English. Students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. In addition, students will continue to address earlier standards as needed while they attend to standards for their grade level. Students will read extensively from multiple genres with an emphasis on British literature. Students will write extensively and keep a portfolio of written work.

### **English IV Dual - 1450**

**ENGL 2322/2323**

**Credit: 1, Full Year**

**Prerequisite: English III recommended**

**Must follow dual credit process; TSI required for dual credit.**

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

### **AP English IV– 1456**

**Literature and Composition**

**Credit: 1, Full Year****Prerequisite: English III recommended**

This college-level course prepares students to take the AP Literature and Composition exam for possible college credit and serves as a survey of British literature. Critical and creative thinking skills are developed through the reading and in-depth analysis of various genres of literature through required readings, discussions, essays and exams. Students will examine literary works and analyze literary elements in relation to the contemporary experience and the times in which they were written. Students will write extensively and keep a portfolio of written work. A summer reading assignment may be required.

**English IV UTonRamps – 1459****ENG 1301/1302****Literature and Composition****Credit: 1, Full Year****Prerequisite: English III recommended**

OnRamps English is a Rhetoric and Writing course that prepares students for critical thinking, writing, and reading, through the analysis of literature and language as well as required reading, discussion, essays, and exams. Students learn to write sound and effective arguments on their own, analyze various positions held in any public debate, and advocate for their own positions effectively. Students can earn three hours of UT credit with feedback and assessment provided by UT course staff.

**English I for Speakers of Other Languages (ESOL) – 1118****Credit: 1, Full Year****Prerequisite: Committee approval**

This course covers all the TEKS for English I but uses ESL strategies to assist the student in mastering the objectives. It is designed for beginning ESOL students with an emphasis on speaking, listening, reading, and writing skills. Only students that are served through the ESL program can substitute ESOL I for English I.

**English II for Speakers of Other Languages (ESOL) – 1128****Credit: 1, Full Year****Prerequisite: Committee approval**

This course covers all the TEKS for English II but uses ESL strategies to assist the student in mastering the objectives. It is designed for beginning ESOL students with an emphasis on speaking, listening, reading, and writing skills. Only students that are served through the ESL program can substitute ESOL II for English II.

**Reading I, II & III – 1014, 1024, 1044****Credit: ½-1, Semester - Full Year****Prerequisite: Committee Approval**

This course offers students instruction in word recognition, comprehension strategies and vocabulary to ensure that they have increased opportunities to read with competence, confidence, and understanding. Students are given opportunities to locate information in varied sources, to evaluate sources, and to draw supportable conclusions. Students learn how various texts are organized and how authors choose language for effect. All of these strategies are applied in texts that cross the subject fields.

**ENGLISH ELECTIVES****Journalism – 1604****Grade: 9-11****Credit: 1, Full Year****Prerequisite: None****Endorsement: Business and Industry**

Designed primarily for freshmen, this course is a study of the history and the contemporary role of mass media in the United States. Students will be exposed to advertising, layout and design, and various writing techniques. This course will prepare students to advance to one of the journalism production classes.

**Advanced Journalism: Yearbook Production I, II, III – 1614,****1624,1634****Credit: 1, Full Year****Grade: 10-12****Prerequisite: Teacher approval**

1/8/19

**Endorsement: Business and Industry**

Advanced Journalism students become actively involved in the publishing of the school yearbook. Students get practical experience in advertising sales, layout design, writing, editing, desktop publishing, and basic photography as they help produce the yearbook. Leadership, dependability, and responsibility are exercised in learning to deal with people in a deadline situation. This course will require some after school time and may be taken more than one year (with teacher approval) for credit.

**Adv. Broadcast Journalism I, II, III – 1714, 1724, 1734****Credit: 1, Full Year****Grade: 10-12****Prerequisite: Teacher approval****Endorsement: Business and Industry**

This course utilizes technology to communicate school and community information and features to the student body. Scriptwriting is combined with the use of video equipment and microphones, plus the use of video editing equipment. Throughout the course, students concentrate on learning to use digital and analog video systems and software applications and the computer terminology that applies. Students apply these computer skills to produce a feature show for the school or community.

**Debate I – 1404****Credit: 1, Full Year****Prerequisite: None**

Debate offers instruction and application in the principles of formal debate. Students will learn procedures and techniques of debate in modern society. Students will apply specific concepts to the preparation and delivery of formal debates. This will include researching, organizing, and presenting the affirmative and negative positions of a topic. Students will be required to participate in several interscholastic debate tournaments throughout the year.

**Practical Writing – 1375****Credit: 1, Full Year****Prerequisite: Committee Approval**

Practical Writing is an opportunity for students to develop understandings and skills that will allow them to successfully pass the STAAR test. It is a one semester course focused solely on the skills students are required to exhibit on the STAAR test. This semester course is a unique opportunity for individual instruction and assessment. The focus will be on students' areas of greatest need and will address them through re-teaching of expectations and strategies to help the student overcome their challenges. [Students will be given the opportunity to demonstrate their understanding and abilities through creative projects and activities.] Students are given extensive practice with the skills and products required on the STAAR, as well as frequent testing situation simulations.

**College Preparatory for Transition ELAR – 1501****Credit: 1, Full Year**

**Recommended: Students who have successfully completed English I, II, and met the state requirement for "Level II/Satisfactory Academic Performance " on both STARR English I and II**

In this college-preparatory course students will improve integrated critical reading and writing skills through engagement with a variety of texts across content areas and genres. As a result, students will be able to develop and express ideas clearly and effectively to communicate with various audiences for various purposes and occasions.

**Mathematics****Algebra I – 2158****Credit: 1, Full Year**

**Prerequisite: Math 8 or PreAP Math 7**

**Algebra I is a prerequisite for all other HS math courses.**

Algebra I will expand students' understanding of number and algebraic methods; describing, graphing, writing, and solving linear functions, equations and inequalities; describing, graphing, writing, and solving quadratic functions and equations; and writing and graphing exponential functions. Special emphasis is placed on problems solving, multiple representations, and application of skills and concepts. Students will continue use of the graphing calculator.

**Pre-AP Algebra I – 2200**

**Credit: 1, Full Year**

**Prerequisite: Math 8 or Pre-AP Math 7**

Pre-AP Algebra I serves as the foundation for the Advanced Placement Program. In addition to the prescribed curriculum for algebra, this course is designed to address high level thinking and problem solving skills. Students who wish to take advanced placement math exams during their senior year should consider this course.

**Geometry – 2238**

**Credit: 1, Full Year**

**Prerequisite: Algebra I**

Geometry students use logical arguments and constructions to make conjectures about geometric relationships and solve problems. The course provides a mathematical model to the physical world and applies algebraic concepts to geometric situations. Topics include coordinate and transformational geometry, proof and congruence, similarity and trigonometry, two and three-dimensional geometry, and probability.

**Pre-AP Geometry – 2237**

**Credit: 1, Full Year**

**Prerequisite: Algebra I**

Pre-AP Geometry serves as the foundation for the Advanced Placement Program. In addition to the prescribed curriculum for geometry, this course is designed to address high level thinking and problem solving skills. Emphasis is placed on formal proofs using deductive and inductive reasoning. Students who wish to take advanced placement math exams during their senior year should consider this course.

**Mathematical Models with Applications – 2208**

**Credit: 1, Full Year**

**Prerequisite: Algebra I**

Students continue to build on Algebra I and Geometry concepts as they expand their understanding through other mathematical experiences. Students apply real world mathematical problems through experiences in personal finance, science, engineering, fine arts, and social sciences.

**Algebraic Reasoning -2159**

**Credit: 1, Full Year**

**Prerequisite: Algebra I**

**Endorsement: STEM**

Algebraic Reasoning continues the development of mathematical reasoning related to algebraic understandings and processes. Students broaden their understanding of various algebraic functions and relationships. Students will study these functions through analysis and application that include exploration of patterns and structure, and algebraic methods and modeling from data using tools that build to workforce and college readiness.

**Algebra II – 2258**

**Credit: 1, Full Year**

**Prerequisite: Algebra I**

**Endorsement: Algebra II or Pre-AP Algebra II is required for a STEM endorsement**

*Algebra II students extend algebraic skills developed in Algebra I into new situations. The major emphasis is on applied*

*problem solving. Topics include describing and graphing functions and their inverses, writing and solving systems of equations and inequalities, writing and solving quadratic and square root functions, formulating and solving exponential functions, logarithmic functions and equations, absolute value equations and inequalities, and rational functions.*

**Pre-AP Algebra II – 2257**

**Credit: 1, Full Year**

**Prerequisite: Algebra I**

**Endorsement: Algebra II or Pre-AP Algebra II is required for a STEM endorsement**

Pre-AP Algebra II serves as the foundation for the Advanced Placement Program. In addition to the prescribed curriculum for Algebra II, this course will address higher-level thinking and problem solving skills. Also included are proof and theory of algebraic statements and analyzing and solving more challenging problems. Graphing calculators will be utilized extensively.

**Pre-Calculus – 2318**

**Credit: 1, Full Year**

**Prerequisite: Algebra I, Geometry, & Algebra II**

**Endorsement: STEM**

Pre-Calculus covers topics that traditionally follow algebra and geometry including polynomials, exponential, logarithmic and circular functions, and their combinations. Major exploration topics include trigonometry, sequences and series, vectors, complex numbers, probability, and problem solving.

**Pre-AP Pre-Calculus – 2317**

**Credit: 1, Full Year**

**Prerequisite: Algebra I, Geometry, & Algebra II**

**Endorsement: STEM**

Pre-AP Pre-Calculus serves as the foundation for the Advanced Placement Program. This course is an extension of regular Pre-Calculus and includes extensive problem solving and high level thinking skills. Emphasis will be placed on skills necessary to be successful in AP Calculus AB or BC.

**AP Calculus AB – 2426**

**Credit: 1, Full Year**

**Suggested Prerequisite: Pre-Calculus**

**Endorsement: STEM**

This college level course prepares students to take the AP Calculus AB Exam for possible college credit. It is equivalent to the first semester of college Calculus, and includes practical applications of Calculus. Topics include limits and continuity of functions; derivatives and their applications; definite integrals and their applications; elementary techniques and applications of anti-differentiation, including differential equations and slope fields.

**AP Calculus BC – 2436**

**Credit: 1, Full Year**

**Suggested Prerequisite: Pre-Calculus**

**Endorsement: STEM**

This college level course prepares students to take the AP Calculus BC Exam for possible college credit. It includes all Calculus AB topics plus additional material including the calculus of parametric and polar curves, vectors, Euler's method, improper integrals, advanced techniques of integration, and sequences and series. It is equivalent to a full year of college calculus.

**Statistics – 2507**

**Credit: 1, Full Year**

**Prerequisite: Algebra I**

**Endorsement: STEM**

This course prepares students to take entry level Statistics in college. Students should have a solid foundation in algebra prior to enrollment. This course will introduce students to four major conceptual themes: observing and exploring data;

planning a statistically valid investigation; anticipating patterns and using probability and simulations for predicting outcomes; and confirming or rejecting models through statistical inference. Technology is an integral part of the course. Graphing calculators and computers are the primary tools for data analysis. This course will count as a fourth math credit.

**Statistics - University of Texas OnRamps Dual Enrollment - 2508 SDS 302**

**Credit: 1, Full Year**

**Prerequisite: Successful completion of Algebra II**

**Grade Level Requirement: 11<sup>th</sup> and 12<sup>th</sup> grade only**

**Endorsement: STEM** OnRamps Statistics is a dual-enrollment data analysis course for high school juniors and seniors seeking to develop the quantitative reasoning skill and habits of mind necessary to succeed in the higher education environment. This course will target conceptual understanding and hone highly relevant mathematical skills through scaffold introduction of statistical methodologies, informal game play, and strategic lab exercises that engage students in hands-on analysis of real data. Valuable programming and coding skills are acquired as a means to conducting these analyses, giving students a solid foundation in data science. Students can earn three hours of UT credit with feedback and assessment provided by UT course staff.

**Computer Science - University of Texas OnRamps Dual Enrollment - 5401**

**Credit: 1, Full Year**

**Grade Level Requirement: 11<sup>th</sup> and 12<sup>th</sup> grade only**

**Prerequisite: Algebra I and Algebra II**

**Endorsement: STEM**

Thriving in Our Digital World is a new dual enrollment course that teaches computer science and its impact on our society. In addition to learning about the magic and beauty of computing, students will acquire essential Texas College and Career Readiness skills, applying critical thinking, problem solving, and communication within a project-based learning framework. Students will experience high-quality curriculum designed by the faculty at The University of Texas at Austin. Students can earn three hours of UT credit with feedback and assessment provided by UT course staff.

**Independent Study in Mathematics – 2170**

**College Algebra Dual Credit (MATH 1414) – 2270**

**Credit: ½ Independent Study, ½ College Algebra Dual Credit**

**Prerequisite: Geometry & Algebra II**

**Prerequisite: Must follow dual credit process; TSI required for dual credit.**

In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included.

**College Algebra/Pre-Calculus Dual Credit – 2271 MATH 1414/2412**

**Credit: 1, Full Year**

**Prerequisite: Geometry and Algebra II**

**St. Phillips Prerequisite: INRW 0420 and Math 0320**

**Endorsement: STEM**

**Must follow dual credit process; TSI required for dual credit.**

This college level course is for students interested in pursuing a career in science, technology, engineering, or mathematics. In-depth combined study of algebra, trigonometry, and other topics for calculus readiness.

**Advanced Quantitative Reasoning –2418**

**Credit: 1, Full Year**

**Prerequisite: Geometry & Algebra II**

**Endorsement: STEM**

Advanced Quantitative Reasoning is a 4<sup>th</sup> year math course that builds on concepts from Algebra I, Geometry and Algebra II. Students expand their understanding through further mathematical experiences including 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 mathematic thinkers who can use their quantitative skills to solve authentic problems.

**Engineering Mathematics – 8999**

**Credit: 1, Full Year**

**Prerequisite: Algebra II**

**Endorsement: STEM, Business and Industry**

Engineering Mathematics is a course where students solve and model robotic design problems. Students use a variety of mathematical methods and models to represent and analyze electrical measurement, manufacturing processes, materials engineering, mechanical drives, pneumatics, process control systems, quality control, and robotics with computer programming.

**Strategic Learning for HS Math - 2007**

**Credit: ½ - 1, Sem. or Full Year**

**Prerequisite: Committee Approval**

**Suggested Prerequisite: Algebra I & Geometry (Elective only - does not count as 4<sup>th</sup> math)**

This course will stimulate students to think about their approach to mathematical learning. Content will include identifying errors in the teaching and learning process, input errors, physiological concerns and key cognitive skills. These skills will foster a deeper understanding of the task of learning mathematical concepts. Use of personal data and statistical analysis will establish relevance and aid in creation of personalized learning goals.

**College Preparatory for Transition Math - 2160**

**Credit: 1, Full Year**

**Recommended: Student has credit for Algebra I and Geometry and has met the passing standard on the Algebra I EOC.**

Topics include real numbers, basic geometry, polynomials, factoring, linear equations, inequalities, quadratic equations and rational expressions. Calculator use is allowed in this course when indicated, including the departmental final examination. An overall grade for the semester of 75 or higher indicates that the student has met the Higher Ed Partnership criteria, and the student is prepared for Intermediate Algebra without further assessment or remediation.

## Science

**Biology – 3118**

**Credit: 1, Full Year**

**Prerequisite: None**

In Biology, students conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Students will study topics such as: structures and functions of cells and viruses; growth and development of organisms; cells, tissues, organs, nucleic acids, and genetics; biological change; taxonomy; metabolism and energy transfers in living organisms; living systems; homeostasis; and ecosystems and the environment. Students will receive CPR instruction and

also continue Scott and White Wellness and Sexual Health Curriculum (formerly known as "Worth the Wait"), which includes learning about STD's, legal issues, and safe decision-making skills.

### **Pre-AP Biology – 3117**

**Credit: 1, Full Year**

**Prerequisite: None**

The Pre-AP class serves as the foundation for Advanced Placement Program Science Courses. In preparation for AP science courses, Pre-AP students will focus on deepening their understanding of content and develop critical inquiry and reasoning skills by engaging in labs and critical writing opportunities that elicit the implementation of the seven science practices described by the College Board. Many of the concepts are the same as those in Biology, except the presentation is more accelerated and in more detail. Students will receive CPR instruction and also continue the Scott and White Wellness and Sexual Health Curriculum (formerly known as "Worth the Wait"), which includes learning about STD's, legal issues, and safe decision-making skills. This course is part of the College Board Pre-AP Curriculum Pilot.

### **AP Biology – 3116**

**Credit: 1, Full Year**

**Prerequisite: Biology or Pre-AP Biology and Chemistry or Pre-AP Chemistry per College Board**

**Endorsement: STEM**

This college level course prepares students to take the AP Biology exam for possible college credit. AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes – energy and communication, genetics, information transfer, ecology, and interactions. This course requires that 25percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices.

### **Integrated Physics and Chemistry (IPC) –3208**

**Credit: 1, Full Year**

**Prerequisite: None**

In Integrated Physics and Chemistry students conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. This course integrates the concepts of physics and chemistry using practical applications relating to topics such as: force, motion, energy, and matter.

### **Chemistry –3318**

**Credit: 1, Full Year**

**Prerequisite: One unit of high school science & Algebra I.**

**Suggested Prerequisite: Completion of or concurrent enrollment in a second year of math.**

**Endorsement: Chemistry or Pre-AP Chemistry is required for a STEM endorsement**

Students will conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Topics of study include: characteristics of matter; use of the Periodic Table, development of atomic theory and chemical bonding, chemical stoichiometry, gas laws, solution chemistry, thermochemistry, and nuclear chemistry. Students will investigate how chemistry is an integral part of our daily lives.

### **Pre-AP Chemistry – 3317**

**Credit: 1, Full Year**

**Prerequisite: One unit of high school science & Algebra I.**

**Completion of or concurrent enrollment in a second year of math is recommended**

**Endorsement: Chemistry or Pre-AP Chemistry is required for a STEM endorsement**

The Pre-AP class serves as the foundation for Advanced Placement Program Science Courses. In preparation for AP science courses, Pre-AP students will focus on deepening their understanding of content and develop critical inquiry and reasoning skills by engaging in labs and critical writing opportunities that elicit the implementation of the seven science practices described by the College Board. Many of the concepts are the same as those in Chemistry, except the presentation is more accelerated and in more detail. This course is part of the College Board Pre-AP Curriculum Pilot.

### **AP Chemistry – 3316**

**Credit: 1, Full Year**

**Prerequisite: Completion of Chemistry or Pre-AP Chemistry and Algebra II recommended by College Board**

**Endorsement: STEM**

This college level course prepares students to take the AP Chemistry exam for possible college credit. The AP Chemistry course provides students with a college-level foundation to support future advanced course work in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. This course requires that 25 percent of the instructional time engages students in lab investigations.

### **Physics – 3418**

**Credit: 1, Full Year**

**Suggested Prerequisite: Completion or concurrent enrollment in Algebra I**

**Endorsement: STEM**

In Physics, students will conduct laboratory and field investigations use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. This course provides students with a conceptual framework, practice in experimental design and interpretation, working collaboratively with colleagues, and developing critical thinking skills. Topics of study include: laws of motion; changes within physical systems and conservation of energy and momentum; forces; thermodynamics, characteristics and behavior of waves; and atomic, nuclear, and quantum physics.

### **AP Physics 1 – 3409**

**Credit: 1, Full Year**

**Prerequisite: Successful completion of Geometry and concurrent enrollment or completion of Algebra II or an equivalent course is recommended by College Board**

**Endorsement: STEM**

This college level course prepares students to take the AP Physics 1 exam for possible college credit. AP Physics 1 is an algebra-based course that is equivalent to a first-semester college course in algebra-based physics. Students cultivate their understanding of physics through inquiry –based investigations as they explore these topics: kinematics; dynamics; circular motion and gravitation; energy; momentum; simple harmonic motion; torque and rotational motion; electric charge and electric force; DC circuits; and mechanical waves and sound. This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide student with opportunities to demonstrate the foundational physics principles and apply the science practices.

## **SCIENCE ELECTIVES**

### **Environmental Systems – 3308**

**Credit: 1, Full Year**

**Prerequisite: Completion of Science graduation sequence is recommended.**

**Endorsement: STEM**

In Environmental Systems, students will conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Topics of study 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.

#### **AP Environmental Science – 3306**

**Credit: 1, Full Year**

**Prerequisites: Successful completion of Algebra I, Pre-AP Biology or Biology, and Pre-AP Chemistry or Chemistry per College Board**

**Endorsement: STEM**

This college level course prepares students to take the Advanced Placement Environmental Science exam for possible college credit. The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science, through which students engage with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental Science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography.

#### **GeoScience University of Texas Dual Enrollment – 3518**

**Credit: 1, Full Year**

**Grade Level Requirement: 11<sup>th</sup> and 12<sup>th</sup> grade only**

**Prerequisite: Biology and Chemistry; or IPC and Chemistry**

**Endorsement: STEM**

Earth, Wind, and Fire is a course in geoscience literacy. It covers the fundamentals of how the Earth works, and how it's various systems- the lithosphere, atmosphere, hydrosphere, and biosphere- interact to form the complex world in which we live. Geoscience is the study of the Earth. It is an integrated science, drawing on the fundamental principles of physics, chemistry, biology, and geosciences to explain Earth processes. This class introduces students to the major areas in geoscience, and helps to develop critical, creative, and geologic problem solving skills. Students can earn three hours of UT credit, with feedback and assessment provided by UT course staff. The dual-enrollment high school course will be Earth and Space Science.

#### **Anatomy and Physiology – 8408**

**Credit: 1, Full Year**

**Prerequisite: Completion of Biology and a second science course. Completion of a course from the Health Science Career Cluster prior to this course is recommended.**

**Endorsement: STEM, Public Services**

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

#### **Anatomy and Physiology Dual Credit – 8410**

**BIOL 2401/BIOL 2402**

**Credit: 1, Full Year**

**Grade: 11-12**

**Prerequisite: Biology and a second science.**

**Prerequisite: Must follow dual credit process; TSI required for dual credit.**

**Endorsement: STEM, Public Services**

Anatomy and Physiology is an advanced course recommended for students with a strong interest in science and good study skills. In this course, students conduct laboratory investigations and fieldwork. Students will study the structures and functions of the human body and body systems and will investigate the body's responses to forces; maintenance of homeostasis; electrical interactions; transport systems; and energy systems.

#### **Forensic Science – 9249**

**Credit: 1, Full Year**

**Prerequisite: Biology & Chemistry. Completion or concurrent enrollment in any Law, Public Safety, Corrections, and Security Career Cluster course is recommended.**

**Student must meet the 40% laboratory and fieldwork requirement.**

**Endorsement: STEM**

Forensic Science is a course that introduces students to the application of science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Students will learn terminology and procedures related to the search and examination of physical evidence in criminal cases as they are performed in a typical crime laboratory. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hair, fibers, paint, glass, and cartridge cases. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science.

#### **Aquatic Science – 3468**

**Credit: 1, Full Year**

**Prerequisite: Biology required and suggested completion or concurrent enrollment in Chemistry.**

**Endorsement: STEM**

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

#### **Engineering Design and Problem Solving – 9009**

**Credit: 1, Full Year**

**Prerequisite: Algebra I & Geometry.**

**Suggested Prerequisite: Two Science, Technology, Engineering, and Mathematics (STEM) Career Cluster credits.**

**Endorsement: STEM**

Engineers are shaping the future and taking on the world's biggest challenges through an Engineering Design Process. Engineering design is the creative process of solving problems by identifying needs and then devising solutions in a systematic way. Science aims to understand the natural world, while engineering seeks to shape this world to meet human needs and wants. Engineering design takes into consideration limiting factors or "design under constraint." Various engineering disciplines address a broad spectrum of design problems using specific concepts from the sciences and mathematics to derive a solution. Students will engage in authentic engineering practices in a project-based environment over a series of engaging and socially relevant design challenges.

#### **Food Science - 8679**

**Credit: 1, Full year**

**Endorsement: Business and Industry**

**Prerequisite: 3 science credits, including Chemistry and Biology. Recommended Prerequisite: Principles of Hospitality and Tourism.**



This course includes topics in food science, nature of science, scientific inquiry, science and social ethics, and science, systems, and models. Students will use scientific methods and equipment during laboratory and field investigations. This course will also incorporate the study of food safety and microbiology, chemical properties of food, functions of enzymes, fermentation, physiology of digestion, understanding metabolism, properties of vitamins, minerals, and water, and the food dehydration, canning, and freezing process.

## Social Studies

### **World Geography Studies – 4238**

**Credit: 1, Full Year**

**Prerequisite: None**

**Endorsement: Arts and Humanities**

World Geography Studies includes instruction in examining people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Students describe the influence of geography on events on the past and present with emphasis on contemporary issues. Students use problem solving and decision making skills to ask and answer geographic questions and to analyze primary and secondary source materials.

### **Pre-AP World Geography Studies – 4237**

**Credit: 1, Full Year**

**Prerequisite: None**

**Endorsement: Arts and Humanities**

Pre-AP serves as a foundation for Advanced Placement Social Studies Course. This course includes instruction in examining people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Students describe the influence of geography of events on the past and present with emphasis on contemporary issues. Students will be taught the skills and strategies needed for Advanced Placement courses. This course is part of the College Board Pre-AP Curriculum Pilot.

### **World History Studies – 4218**

**Credit: 1, Full Year**

**Suggested Prerequisite: World Geography Studies**

**Endorsement: Arts and Humanities**

World History Studies is a survey of the history of human kind. The major emphasis is on the study of significant people, events, and issues from earliest times to present western civilization as well as civilizations in other parts of the world. Students use historical inquiry to research and interpret both primary and secondary sources.

### **AP World History Studies – 4216**

**Credit: 1, Full Year**

**Suggested Prerequisite: World Geography Studies**

**Endorsement: Arts and Humanities**

This college level course prepares students to take the AP World History Studies exam for possible college credit. Emphasis will be placed on significant people, events, and issues from earliest times to present in civilizations around the world to understand evolving processes, and human contact and interactions. Recognizing and understanding cause and effect relationships, multiple causation, trends, themes and interactions, and importance of both change and continuity in shaping human events will be stress.

### **U.S. History Studies Since 1877 – 4358**

**Credit: 1, Full Year**

**Suggested Prerequisite: World History Studies**

U.S. History since Reconstruction focuses on the time period from 1877 to present day. The course content is based on the founding documents of the U.S. government, which provides a

framework for its heritage. Historical content focuses on the political, economic and social issues related to industrialization and urbanization, major wars, domestic and foreign policies, and reform movements including civil rights. Students use critical thinking skills and a variety of primary and secondary source material to explain and apply different methods that historians use to understand and interpret the past, including multiple points of view and historical context. The dual credit course surveys the period from the first European explorations to present day.

### **AP U.S. History – 4356**

**Credit: 1, Full Year**

**Suggested Prerequisite: World History Studies**

This college level course prepares students to take the AP U.S. History exam for possible college credit. The class surveys the period from the first European explorations to the present stressing political institutions, behavior and public policy, social and economic change, diplomacy and international relations, and cultural and intellectual developments. Recognizing and understanding cause and effect relationships, multiple causation, trends, themes and interactions, and importance of both change and continuity in shaping human events will be stressed.

### **U.S. Government – 4408**

**Credit: ½, Semester**

**Suggested Prerequisite: U.S. History**

United States Government focuses on the principles, beliefs, structure, functions, and powers of government at national, state, and local levels. Emphasis will be placed on the U.S. Constitution, its underlying principles and ideas, and the form of government it created. The Federalist Papers, landmark cases and other significant primary and secondary sources will also be analyzed.

### **AP U.S. Government and Politics – 4406**

**Credit: ½, Semester**

**Suggested Prerequisite: U.S. History**

This college level course prepares students to take the AP U.S. Government and Politics exam for possible college credit. The class includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. Students will evaluate general propositions about government and politics, analyze political relationships between people and institutions and between different institutions, and utilize basic data relevant to government and politics in sustained written arguments.

### **Economics – 4418**

**Credit: ½, Semester**

**Suggested Prerequisite: U.S. History**

Economics focuses on the Free Enterprise System and its benefits including principles of production, consumption, and distribution of goods and services. The student will research the problem of scarcity in the United States and a comparison with those in other countries around the world. Students apply critical thinking skills to create economic models and evaluate economic patterns.

### **AP Macroeconomics – 4416**

**Credit: ½, Semester**

**Suggested Prerequisite: U.S. History**

This college level course prepares students to take the AP Macroeconomics exam for possible college credit. Students will gain a thorough understanding of the principles of economics that apply to an economic system as a whole. Macroeconomics places emphasis on the study of national income and price determination and also develops students' familiarity with economic performance measures, economic growth, and international economics. Students are **required** to take the Advanced Placement Macroeconomics exam at the conclusion of the course.

## SOCIAL STUDIES ELECTIVES

**AP Human Geography – 4246/AP Psychology-4546**  
**These two courses are scheduled to be taken together.**

### SOCIAL STUDIES ELECTIVES

**AP Human Geography – 4246**                      **Grade: 10-12**

**Credit: ½, Semester**

**Prerequisite: World Geography Studies recommended**

**Endorsement: Arts and Humanities**

This college level course prepares students to take the AP Human Geography exam for possible college credit. This is a rigorous course that requires students to devote time to outside field trips, research projects and supplementary reading. Students will be introduced to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Students employ spatial concepts and landscape analysis to analyze human social organization and its environmental consequences.

**AP European History – 4296**                      **Grade: 10-12**

**Credit: 1, Full Year**

**Prerequisite: None**

**Endorsement: Arts and Humanities**

This college level course prepares students to take the AP European History exam for possible college credit. Focus will be placed on major events and trends from 1450 to the present covering themes of intellectual and cultural, political and diplomatic, and social and economic history of Europe. Recognizing and understanding cause and effect relationships, multiple causations and the importance of both change and continuity in shaping human events will be stressed.

**AP Psychology – 4546**                      **Grade: 10-12**

**Credit: ½, Semester**

**Endorsement: Arts and Humanities**

Psychology teaches theories of human development, motivation, brain development and learning. Students study the science of human behavior and mental processes. The study of psychology is based on an historical framework and relies on effective collection and analysis of data.

**Personal Financial Literacy - 4590**

**Credit: ½, Semester**                      **Grade: 10-12**

This interactive and research-based course requires students to apply critical-thinking and problem-solving skills to analyze decisions involving earning and spending, saving and investing, credit and borrowing, insuring and protecting and college and post-secondary education and training. This course also includes instruction in methods of paying for college and other post-secondary education.

## World Languages

**World Languages I, II, III, IV**

**Credit: 1, Full Year**

**Prerequisite: None**

**Endorsement: Arts and Humanities**

This course provides an introduction to the five C's: *communication* (speaking, listening, reading, writing), *culture* (understanding of the people, practices, products and perspectives), *connections* (with other subject areas), *comparisons* (own culture/language with another), and *communities* (using language beyond the school setting for personal and career development).

**The following languages are offered:**

**All Dual Credit classes must follow dual credit process; TSI required for dual credit.**

Spanish I – 1818

Spanish II – 1828

Pre-AP Spanish II – 1827

Spanish III – 1838

Pre-AP Spanish III – 1837

Spanish III Dual (SPAN 1411/SPAN 1412) - 1830

Spanish IV Dual (SPAN 2311/SPAN 2312) - 1840

German I – 1918

German II – 1928

Pre-AP German III – 1937

American Sign Language I – 1951

American Sign Language II – 1952

American Sign Language III – 1953

## Fine Arts

**Art I – 6014**

**Grade: 9-12**

**Credit: 1, Full Year**

**Prerequisite: None**

**Endorsement: Arts and Humanities**

**\*Art fees are assessed**

Students may fulfill fine arts or elective requirements for graduation by successfully completing this course. Beginning art encompasses a wide variety of experiences, from elements and principles of art to art history. Students are exposed to a variety of media both two and three dimensional; pencil, ink, charcoal, pastel, tempera, watercolor, clay, and printmaking. Some media may vary. The goal is for students to gain an understanding and appreciation of art.

**Art and Media Communications I – 6404**

**Credit: 1, Full Year**

**Prerequisite: None**

**Endorsement: Arts and Humanities**

**\*Art fees are assessed**

Art and Media Communications combines rigorous and relevant experiential study of modern, post-modern, and contemporary visual art and design with student learning in media literacy and technology applications. Creation and analysis of student artworks will be balanced with explorations into contemporary practices across the visual and commercial arts fields. Students will learn how to bridge traditional hand skills with current technology applications to create new media such as animations, digital images, multimedia presentation, digital video, websites, and interactive or site-based installations and performances. Students work will culminate in a capstone project that investigate an issue relevant to the student and uses art, design, and visual communications to address a problem within the community or effect a change.

**Art and Media Communications II – 6405**

**Credit: 1, Full Year**

**Prerequisite: Art & Media Communications I**

**Endorsement: Arts and Humanities**

**\*Art fees are assessed**

Art and Media Communications combines rigorous and relevant experiential study of modern, post-modern, and contemporary visual art and design with student learning in media literacy and technology applications. Creation and analysis of student artworks will be balanced with explorations into contemporary practices across the visual and commercial arts fields. Students will learn how to bridge traditional hand skills with current technology applications to create new media such as animations, digital images, multimedia presentation, digital video, websites, and interactive or site-based



installations and performances. Students work will culminate in a capstone project that investigate an issue relevant to the student and uses art, design, and visual communications to address a problem within the community or effect a change.

### **Art II Printmaking I – 6074**

**Credit: 1, Full Year** **Grade: 9-12**

**Prerequisite: Art I**

**Prerequisite: Completion of the previous year course**

**Endorsement: Arts and Humanities**

This course introduces students to the production of multiple images from a single design. Emphasis is on design and creative use of the materials and techniques of the relief, monoprint, and silkscreen printing processes.

### **Art II Drawing I – 6024**

**Credit: 1, Full Year** **Grade: 9-12**

**Prerequisite: Art I**

**Endorsement: Arts and Humanities**

**\*Art fees are assessed**

Students will express ideas through original artworks, using a variety of drawing media. They will be able to apply design skills in creating practical applications. The students will study historical periods, as well as critique artwork.

### **Art II Painting I – 6034**

**Credit: 1, Full Year** **Grade: 9-12**

**Prerequisite: Art I**

**Endorsement: Arts and Humanities**

**\*Art fees are assessed**

Students will express ideas through original artworks, using a variety of painting media. They will be able to express their thoughts and ideas creatively, while challenging their imagination. Students will study historical periods, as well as critique artwork.

### **Art II Sculpture I – 6064**

**Credit: 1, Full Year** **Grade: 9-12**

**Prerequisite: Art I**

**Endorsement: Arts and Humanities**

**\*Art fees are assessed**

Students will express ideas through original artworks, using a variety of 3-D media. They will be able to apply design skills in creating practical applications. The student will study historical periods, as well as critique artwork.

### **AP Art History – 6096**

**Credit: 1, Full Year** **Grade: 10-12**

**Prerequisite: None**

**Endorsement: Arts and Humanities**

This reading intensive course introduces students to the understanding, appreciation, and enjoyment of works of art. Students will be exposed to a general survey of art history including architecture, sculpture, painting, and other art forms within historical and cultural contexts. Students will examine major forms of artistic expression from the past to the present, as well as from a variety of cultures beyond the European tradition. While visual analysis is a fundamental tool of the art historian, art history emphasizes understanding how and why works of art function in context, considering such issues as patronage, gender, and the functions and effects of works of art. Some content may be of mature nature.

### **Art III Drawing II – 6214**

**Credit: 1, Full Year** **Grade: 10-12**

**Prerequisite: Art II in corresponding discipline and teacher approval**

**Endorsement: Arts and Humanities**

**\*Art fees are assessed**

Students will express ideas through original artworks, using a variety of drawing media. They will be able to apply design skills in creating practical applications. Students will study historical periods, as well as critique artwork.

### **Art III Painting II – 6224**

**Credit: 1, Full Year** **Grade: 10-12**

**Prerequisite: Art II in corresponding discipline and teacher approval**

**Endorsement: Arts and Humanities**

**\*Art fees are assessed**

Students will express ideas through original artworks, using a variety of painting media. They will be able to express their thoughts and ideas creatively, while challenging their imagination. Students will study historical periods, as well as critique artwork.

### **Art III Sculpture II – 6254**

**Credit: 1, Full Year** **Grade: 10-12**

**Prerequisite: Art II in corresponding discipline, and teacher approval**

**Endorsement: Arts and Humanities**

**\*Art fees are assessed**

Students will express ideas through original artworks, using a variety of 3-D media. They will be able to apply design skills in creating practical applications. Students will study historical periods, as well as critique artwork.

### **Art III Printmaking II - 6234**

**Credit: 1, Full Year**

**Prerequisite: Completion of the previous year course**

**Endorsement: Arts and Humanities**

This course introduces students to the production of multiple images from a single design. Emphasis is on design and creative use of the materials and techniques of the relief, mono-print, and silkscreen printing processes.

### **Art IV Drawing III – 6334**

**Credit: 1, Full Year** **Grade: 11-12**

**Prerequisite: Art III in corresponding discipline and teacher approval**

**Endorsement: Arts and Humanities**

**\*Art fees are assessed**

Students produce artwork of their choice based on the focus of study in Art II and III. Students prepare a portfolio, present an exhibition of work, and set up exhibits of other artists' work. Students provide materials for some of the projects.

### **Art IV Painting III – 6344**

**Credit: 1, Full Year** **Grade: 11-12**

**Prerequisite: Art III in corresponding discipline and teacher approval**

**Endorsement: Arts and Humanities**

**\*Art fees are assessed**

Students produce artwork of their choice based on the focus of study in Art II and III. Students prepare a portfolio, present an exhibition of work, and set up exhibits of other artists' work. Students provide materials for some of the projects.

### **Art IV Sculpture III – 6374**

**Credit: 1, Full Year** **Grade: 11-12**

**Prerequisite: Art III in corresponding discipline and teacher approval**

**Endorsement: Arts and Humanities**

**\*Art fees are assessed**

Students produce artwork of their choice based on the focus of study in Art II and III. Students prepare a portfolio, present an exhibition of work, and set up exhibits of other artists' work. Students provide materials for some of the projects.

### **Art IV Printmaking III - 6354**

**Credit: 1, Full Year**

**Prerequisite: Completion of the previous year course**

**Endorsement: Arts and Humanities**

This course introduces students to the production of multiple images from a single design. Emphasis is on design and creative use of the materials and techniques of the relief, monoprint, and silkscreen printing processes.

**AP Studio Art Drawing, 2D Design, 3D Design – 6426, 6436, 6446**

**Credit: 1, Full Year** **Grade: 11-12**

**Suggested Prerequisite: Art I & Art II and portfolio review by the teacher.**

**Endorsement: Arts and Humanities**

**\*Art fees are assessed**

This college level course offers a rigorous and accelerated curriculum that **requires** students to submit portfolios for the AP Art Exam for possible college credit. Critical and creative thinking skills are developed through the production and critical analysis of art. Students self-determine appropriate directions in which to develop artistic themes and media.

**Floral Design – 8674**

**Credit: 1, Full Year**

**Grade: 10-12**

**Prerequisite: None**

This course is designed to develop skills in the design and arrangement of flowers, foliage, and related plant materials for interior locations. Students will create floral arrangements. **This course will satisfy the Fine Arts credit.**

**THEATRE ARTS**

**Theatre Arts I – 6114**

**Credit: 1, Full Year**

**Prerequisite: None**

**Endorsement: Arts and Humanities**

This course will focus on performance. Special emphasis will be given to character development, voice, diction, and body control. This course will begin the study of theatre history and acting styles. Directing will be studied. All aspects of production from a technical standpoint (set design, lights, sounds and etc.) will be explored. This course requires extended rehearsals with some after school, nights and weekends.

**Technical Theatre I – 6164**

**Credit: 1, Full Year**

**Prerequisite: None**

**Endorsement: Arts and Humanities**

Students may fulfill an elective requirement for graduation by successfully completing this course. Technical Theatre includes a study of stage design, publicity, lighting, sound and other aspects of theatrical production in conjunction with actual stage production. Theatre history and careers in theatre will also be discussed.

**Theatre and Media Communications I – 6654**

**Credit: 1, Full Year**

**Endorsement: Arts and Humanities**

This course provides students with a rigorous and relevant experiential study of theater along with video and audio design. Creation and analysis of student performance will be balanced with explorations into contemporary practices in digital media. Students will learn how to bridge traditional stagecraft with current technology applications to create new media, such as animations, digital images, multimedia presentations, digital videos, websites, and interactive performances. Furthermore, student work will culminate in a capstone project that investigates an issue relevant to the student and uses a digital stage to address a problem within the community or to affect a change. This project will afford students an opportunity to learn and practice creative research skills, develop a narrative, engage an audience, and connect on online community to their project.

**Theatre Production I – 6184**

**Credit: 1, Full Year**

**Prerequisite: Audition and teacher approval**

**Endorsement: Arts and Humanities**

All aspects of production will be explored – set design, lights, and sound and theatre history. Special emphasis will be given to character development, voice, and diction and body control. This course requires after-school rehearsals and

performance times, focusing on fall and spring show productions. Students must be willing to participate both as actors and crewmembers and are subject to auditions for role and crewmember assignments.

**Theatre Arts II, III, IV – 6124, 6134, 6144**

**Credit: 1, Full Year**

**Prerequisite: Completion of previous year course**

**Endorsement: Arts and Humanities**

This course will focus on performance. Special emphasis will be given to character development, voice, diction, and body control. This course will begin the study of theatre history and acting styles. Directing will be studied. All aspects of production from a technical standpoint (set design, lights, sounds and etc.) will be explored. This course requires extended rehearsals with some after school, nights and weekends.

**Technical Theatre II, III, IV – 6174, 6194, 6314**

**Credit: 1, Full Year**

**Prerequisite: Completion of previous year course**

**Endorsement: Arts and Humanities**

Technical Theatre includes a study of stage design, publicity, lighting, sound and other aspects of theatrical production in conjunction with actual stage production. Theatre history and careers in theatre will also be discussed

**Theatre and Media Communications II – 6664**

**Credit: 1, Full Year**

**Prerequisite: Theatre and Media Communications I/Teacher approval recommended**

**Endorsement: Arts and Humanities**

This course builds on the foundational theatre and technology skills taught in the Theatre and Media Communications I survey course and provides opportunities for students to apply and synthesize knowledge and skills through relevant, real-world projects. Students will explore theatre-related technical professions and components of media production. The course provides hands-on, experiential learning in theatre, including acting, directing, and design integrated with instruction focused on technology applications, media literacy, and 21st century skills. A key focus of the course is on ways to bridge traditional stagecraft with current technology applications to create new media such as animations, digital images, multimedia presentation, digital video, websites, and interactive performances. Students will also develop a deeper understanding of self along with a broader worldview by creating, performing, analyzing, and critiquing dramatic works. Students in this course will document their work during the course in a professional-level digital portfolio. Supply Fee May Be Required.

**Theatre Production II, III, IV – 6154, 6284, 6294**

**Credit: 1, Full Year**

**Prerequisite: Completion of previous year course, audition and teacher approval**

**Endorsement: Arts and Humanities**

All aspects of production will be explored – set design, lights, and sound and theatre history. Special emphasis will be given to character development, voice, and diction and body control. This course requires after-school rehearsals and performance times, focusing on fall and spring show productions. Students must be willing to participate both as actors and crewmembers and are subject to auditions for role and crewmember assignments.

**DANCE**

**Principles of Dance I – 6954**

**Dance PE – 6956 (Students needing PE credit will be scheduled during zero hour in year I.)**

**Credit: 1, Full Year**

**Endorsement: Arts and Humanities**

This course is an introduction to all basic dance techniques (tap, ballet, jazz, modern, contemporary and world dance)

including vocabulary and principles of all dance forms. Supply fee may be required. Students may earn up to one P.E. and/or Fine Arts credit.

**Principles of Dance II, III, IV - 6964, 6974, 6984**

**Credit: 1, Full Year**

**Prerequisite: Completion of previous level dance course**

**Endorsement: Arts and Humanities**

This course further extends skills and concepts introduced in Dance I. Group and individual projects through choreography and research are introduced. Supply fee may be required. This course is a prerequisite to trying out for our competitive ballroom dance teams. Students may earn up to one P.E. and/or Fine Art credit.

**Aerobic Dance I-IV – 6929, 6939, 6949, 6959**

**Dance PE – 6956 (Students needing PE credit will be scheduled during zero hour in year I.)**

**Credit: 1, Full Year**

**Prerequisite: Completion of Principles of Dance**

Vocabulary of dance movement and knowledge of factors that influence movement will be further explored. Creative expression through choreography opportunities will be introduced. Development of sensitivity to tempo, spatial concepts and floor patterns and an increased ability to perform technical skills in dance will be pursued. Audition procedures for performance will be introduced. The student will begin the performance phase at this level.

**Varsity Team I-IV – 6927, 6937, 6947, 6957**

**Credit: 1, Full Year**

**Prerequisite: None**

**Drill Team – 7524 (Year I only so student receives both FA and PE credit.)**

Vocabulary of dance movement and knowledge of factors that influence movement will be further explored. Creative expression through choreography opportunities will be introduced. Development of sensitivity to tempo, spatial concepts and floor patterns and an increased ability to perform technical skills in dance will be pursued. Audition procedures for performance will be introduced. The student will begin the performance phase at this level.

**Ballroom Dance Team I-IV – 6928, 6938, 6948, 6958**

**Credit: 1, Full Year**

**Prerequisite: None**

**Drill Team – 7524 (Year I only so student receives both FA and PE credit.)**

Vocabulary of dance movement and knowledge of factors that influence movement will be further explored. Creative expression through choreography opportunities will be introduced. Development of sensitivity to tempo, spatial concepts and floor patterns and an increased ability to perform technical skills in dance will be pursued. Audition procedures for performance will be introduced. The student will begin the performance phase at this level.

**JV Ballroom Dance Team I-IV – 6955, 6965, 6975, 6985**

**Credit: 1, Full Year**

**Prerequisite: None**

**Drill Team – 7524 (Year I only so student receives both FA and PE credit.)**

Vocabulary of dance movement and knowledge of factors that influence movement will be further explored. Creative expression through choreography opportunities will be introduced. Development of sensitivity to tempo, spatial concepts and floor patterns and an increased ability to perform technical skills in dance will be pursued. Audition procedures for performance will be introduced. The student will begin the performance phase at this level.

## BAND

**Band I - IV**

**Course Note: Supply fees required**

**Marching Band I – IV - 6614, 6624, 6811, 6812**

**Credit: ½, Semester**

**Prerequisite: Middle school band or teacher approval. Counts as a .5 P.E. equivalent and Fine Art credit**

The Marching Band performs at all appropriate football games and pep rallies. The group also participates in all UIL related contests and others contests during the semester that prove beneficial to the program. Students enrolled in Marching Band must also enroll in Concert Band or Symphonic Band. Fine Arts or physical education credit may be earned. A student must take 2 semesters of Marching Band to equal 1 physical education credit. Students may earn up to one full P.E. and/or Fine Art credit.

**Concert Band I – IV - 6714, 6724, 6734, 6744**

**Credit: 1, Full Year**

**Prerequisite: Placement by audition. Concert Band I - Teacher approval recommended; Concert Band II-IV requires completion of previous year course**

**Endorsement: Arts and Humanities**

Band is offered for brass, woodwind, and percussion students in grades 9 - 12 with prior band experience at the middle school level. Band includes concert band activities such as public concerts, UIL contests, and individual TMEA audition opportunities. Marching band involvement is required of all CLHS band students during the fall semester, and includes football game performances, pep rallies, and contest opportunities. Placement in concert and marching band is by audition into ability -based ensembles.

**Jazz Ensemble I - IV – 6815, 6825, 6835, 6845**

**Credit: 1, Full Year**

**Prerequisite: Jazz Ensemble I-none/ Teacher approval recommended; Jazz Ensemble II-IV requires completion of previous year course**

**Endorsement: Arts and Humanities**

Jazz Ensemble is offered as an additional musical opportunity for students that perform on an instrument within the standard jazz instrumentation (saxophone, trumpet, trombone, or rhythm section). Students must also be enrolled in the traditional Band program. Performance opportunities may include concerts, community events, and jazz festivals. Supply fee may be required.

**Color Guard I - IV – 6749, 6759, 6769, 6779**

**Credit: 1, Full Year (Fine Arts or Dance depending on Campus)**

**Prerequisite: Teacher approval and Tryouts**

**Endorsement: Arts and Humanities**

**Color Guard** is open to students that want to learn the technical skills involved in expressive dance, flag, rifle, and saber choreography, as they relate to the State Goals for Learning in Fine Arts. The course will prepare students for color guard performances with the marching band during the fall semester. Various styles of dance will be taught and explored, in addition to traditional color guard training techniques.

**Advanced Placement (AP) Music Theory - 6926**

**Credit: 1, Full Year**

**Prerequisite: None (The student's ability to read and write musical notation is fundamental to AP Music Theory. It is also strongly recommended that the student will have acquired at least basic performance skills in voice or on an instrument prior to taking this course. -The College Board )**

**Endorsement: Arts and Humanities**

This course will study the fundamentals of music construction, composition, and ear training in preparation for the AP Music Theory examination. This course is designed for students that intend to pursue music at the University Level.

**Applied Music I - IV (Band) - 6914, 6915, 6916, 6917**

**Credit: 1, Full Year**

**Prerequisite: Applied Music I- None/Teacher approval recommended; Applied Music II-IV requires completion of previous year course**

Applied Music is offered for students that would like an additional music course to receive advanced study on their instrument. Enrollment in the traditional band program is a prerequisite. Students will have the opportunity to receive individual instruction and feedback on solo literature including UIL and TMEA contest materials, plus have the opportunity to explore literature and theory in greater depth than is available in the traditional band rehearsal. Supply fee may be required.

**Piano I - IV - 6804, 6824, 6834, 6844**

**Credit: 1, Full Year**

**Prerequisite: None**

**Endorsement: Arts and Humanities**

Open to students in grades 9-12, the course fulfills a fine arts or an elective requirement for graduation. The course teaches music reading, theory, and beginning piano skills to persons with no (or limited) music reading ability. Students will use electric keyboards and headphones to work individually, in pairs, and in small groups to practice keyboard fluency. Participation in one concert per semester is required.

**Piano I - IV (Accelerated) – 6874, 6875, 6876, 6877**

**Credit: 1, Full Year**

**Prerequisite: Teacher approval recommended**

**Endorsement: Arts and Humanities**

Open, with teacher approval, to students with previous music study, band, or advanced choir. Students will use electric keyboards and headphones to work individually, in pairs, and in small groups to develop keyboard fluency. Participation in one concert per semester is required. The course will move at a faster pace and cover more material than the regular Piano I class.

**Orchestra I – IV – 6884, 6894, 6895, 6896**

**Credit: 1, Full Year**

**Prerequisite: Previous instruction is required.**

Orchestra I is open to all students who play an orchestral string instrument (violin viola, cello, bass). Orchestra provides an academic opportunity for participation in instrumental ensemble playing. Special attention is given to forming proper habits regarding ensemble routine, resonant tone production, intonation, rhythm, critical listening, instrumental technique and musical interpretation through skill study and participation. Orchestra offers students the opportunity to study and perform a variety of musical literature of accepted value at an appropriate level of difficulty. Student participation in orchestral events outside the school day such as concerts and rehearsals will be expected. This course is open to grades nine through twelve.

## **CHORAL MUSIC**

**Vocal Ensemble I – IV - 6414, 6424, 6434, 6444**

**Credit: 1, Full Year**

**Prerequisite: Vocal Ensemble I- none; Vocal Ensemble II-IV requires completion of previous year course**

**Endorsement: Arts and Humanities**

Students may fulfill an elective requirement for graduation by successfully completing this course. This course consists of developing choirs that emphasize sight-reading, basic music skills, vocal development, vocal blending, and music theory. Many performance and contest opportunities are available. Previous choral experience is not necessary.

**Mixed Choir I – IV - 6514, 6524, 6534, 6544**

**Credit: 1, Full Year**

**Prerequisite: Mixed Choir II-IV requires completion of previous year course**

**Endorsement: Arts and Humanities**

The Mixed Choir is an audition only choir for all men in grades 9-12 and for women in grades 10-12. These courses are advanced levels continuing the four strands – perception, creative expression/performance, historical and cultural heritage and critical evaluation. They provide broad, unifying structures for organizing the knowledge and skills. Four major public performances are given each year, two per semester. Students also participate in TMEA Region Auditions, UIL Solo and Ensemble events, as well as UIL Concert and Sight Reading events. This has potential to advance to the state level.

**Freshmen Treble Choir - 6361**

**Credit: 1, Full Year**

**No Prerequisite**

**Endorsement: Arts and Humanities**

Students may fulfill an elective requirement for graduation by successfully completing this course. This course consists of developing choirs that emphasize sight-reading, basic music skills, vocal development, vocal blending, and music theory. Many performance and contest opportunities are available. Previous choral experience is not necessary. Students are required to perform in four concerts throughout the year, two per semester.

**JV Treble Choir I – IV - 6554, 6564, 6574, 6584**

**Credit: 1, Full Year**

**Prerequisite: Teacher approval**

**Endorsement: Arts and Humanities**

Students may fulfill an elective requirement for graduation by successfully completing this course. These courses present four basic strands – perception, creative expression/performance, historical and cultural heritage, and critical evaluation. They provide broad, unifying structures for organizing the knowledge and skills. Students are required to perform in four concerts throughout the year, two per semester. Through creative performance, students apply the technical skills of music.

**Varsity Treble Choir II – IV - 6454, 6464, 6474**

**Credit: 1, Full Year**

**Prerequisite: Teacher Approval**

**Endorsement: Arts and Humanities**

Students may fulfill an elective requirement for graduation by successfully completing this course. These courses are advanced levels of the four strands – perception, creative expression/performance, historical and cultural heritage, and critical evaluation. They provide broad, unifying structures for organizing the knowledge and skills. Students are required to perform in four concerts throughout the year, two per semester. Through creative performance, students apply the technical skills of music. Students are expected to participate in TMEA Region Auditions, UIL Solo and Ensemble events, as well as UIL Concert and Sight Reading events.

**Tenor Bass Choir I – IV - 6484, 6485, 6486, 6487**

**Credit: 1, Full Year**

**Prerequisite: Levels II – IV requires completion of the previous year.**

**Endorsement: Arts and Humanities**

Students may fulfill an elective requirement for graduation by successfully completing this course. This course consists of developing choirs that emphasize sight-reading, basic music skills, vocal development, vocal blending, and music theory. Many performance and contest opportunities are available. Previous choral experience is not necessary. Students are required to perform in four concerts throughout the year, two per semester.

**Vocal Applied Music I-IV – 6425, 6435, 6445, 6455**

**Credit: 1, Full Year**

**Grade: 9-12**

**Prerequisite: Must be a member of a major band or choir organization and have teacher approval**

**Endorsement: Arts and Humanities**

Applied Music is a course in individual study and will give students the opportunity to improve their vocal skills with one-on-one instruction and supervision by the teacher.

components of physical fitness. All of the TEKS for Foundations of Personal Fitness and Health will be addressed. Students will, in most instances, participate in the activity part of the class every other week for a total of 225 minutes every two-week period. This component of the class will include cooperative and team building physical activities that impact cardiovascular health, muscular strength and endurance, and flexibility. Students will learn how to assess their own health and fitness levels, and based on that knowledge, they will be able to design and maintain their own personal nutrition and fitness program. The classroom component includes studies on Emotional & Mental Health, Nutrition & Physical Activity; Abstinence, Personal & Sexual Health; HIV, STD, & Pregnancy Prevention; Tobacco, Alcohol, & Other Drug Prevention, and Violence & Injury Prevention.

## Physical Education/Athletics and Health

**All HS Students are required to take ONE credit of Physical Education.**

- A **Student** who is **unable** to comply with all the requirements of a PE course because of a **physical limitation** (as certified by a licensed medical practitioner) is not prohibited from earning a diploma because a modification was made to his/her PE course. All PE education classes are adapted to fit the needs of students with special needs.
- **PE Substitution Courses** may be permitted in any of the following earning up to **one credit**.
  - Drill Team
  - Marching Band
  - JROTC
  - Cheerleading
  - Fall Semester of Color Guard

**\*Note: State law requires any student who is taking a PE. Course or class that substitutes for P.E., participate in annual fitness testing.**

- **PE Substitution Courses** may be permitted in any of the following earning up to **four credits**.
  - Athletics/UII Athletics
  - Approved private program (must be pre-approved by the Coordinator of PE)

**Intro to Fitness & Wellness – 7104 (Foundations of Personal Fitness)**

**Credit: 1.0**

**Grades: 9-10**

**Prerequisite: None**

Intro to Fitness & Wellness will motivate students to strive for lifetime personal fitness with an emphasis on the health-related

**PhysEd Fit I - 7014 (Aerobic Activities)**

**Credit: 1.0**

**Grades: 10-12**

**Prerequisite: None**

PhysEd Fit is designed to teach sustainable fitness through core strength and conditioning, regardless of fitness level, body composition, or athletic ability. Using basic body-weight movements, the fun of sport and game, and accountability through journaling, students advance through levels that increase in intensity and encourage camaraderie and competition amongst peers to motivate students to unparalleled fitness. Journals help students to track their performance during the workouts, set goals, and complete written assignments, which shall include student's observations on nutrition, sleep, recovery, and values related to sports. Students in this course will compete in an end of semester ComalPhysEd games with PhysEd Fit students from other CISD high schools.

**Adventure/Outdoor Education I - 7004**

**Credit: 1.0**

**Prerequisite: None**

This course provides an introduction to a variety of lifetime outdoor activities including archery, camping, backpacking, survival techniques, firearm safety, fishing, rock climbing, canoeing/kayaking, cycling, orienteering, and ropes course. Students will receive several opportunities to achieve certifications including CPR/First Aid certification.

**Olympic Caliber Off Campus Physical Education I, II, III – 7544, 7545, 7546**

**Credit: 1.0**

**Grades: 9-12**

**Prerequisite: None**

The purpose of this program is to accommodate students who are making a serious effort to develop high level capabilities and to allow them to be involved in an off-campus program that provides training exceeding that offered in the school district. Beginning with the 2016-2017 school year, all private or commercially-sponsored physical activity programs used by CISD students to satisfy their Physical Education requirement under this option have to be registered with the Texas Education Agency. The state requirements for Olympic-level participation and/or competition includes a minimum of 15 hours per week of highly intensive, professional, supervised training. The training facility, instructors, and the activities involved in the program must be certified by the superintendent to be of exceptional quality. Students qualifying and participating at this level may be dismissed from school one hour per day from no other class than physical education. All information/applications can be found on the CISD Physical Education webpage ([www.comalisd.org/Departments/Curriculum/PE and Health](http://www.comalisd.org/Departments/Curriculum/PE and Health))

**Swimming**

**Year 1 - 7264, Year 2 - 7265, Year 3 - 7266, Year 4 - 7267**

**Credit: 1, Full Year**

**Prerequisite: Teacher approval** Swimming provides students the opportunity to participate in competition.

### **Basketball - Boys**

**Year 1 - 7344, Year 2 - 7354, Year 3 - 7355, Year 4 - 7356**

**Credit: 1, Full Year**

**Prerequisite: Teacher approval**

This course focuses on the basic fundamentals of basketball – shooting, dribbling, rebounding, and defense as well as competitive team play, team offense and defense and strategy. Another part of this course will be weight lifting and conditioning.

### **Football**

**Year 1 - 7304, Year 2 - 7394, Year 3 - 7395, Year 4 - 7404**

**Credit: 1, Full Year**

**Prerequisite: Teacher approval**

The UIL Boys Athletic program is an extension of the physical education program. The program is organized to provide students an opportunity to express themselves in interschool competition. During the off-season students participate in weight lifting, running, agility, and techniques.

### **Baseball – Boys**

**Year 1 - 7324, Year 2 - 7325, Year 3 - 7326, Year 4 - 7327**

**Credit: 1, Full Year**

**Prerequisite: Teacher approval**

Students in this course are involved in weight training, conditioning, and baseball fundamentals. During the off-season players participate in conditioning activities.

### **Soccer – Boys**

**Year 1 - 7464, Year 2 - 7465, Year 3 - 7466, Year 4 - 7467**

**Credit: 1, Full Year**

**Prerequisite: Teacher approval**

Soccer is designed to allow those students who are physically adapted to the game to extend their skills. This course is a component of the physical education program

### **Volleyball – Girls**

**Year 1 - 7364, Year 2 - 7444, Year 3 - 7445, Year 4 - 7446**

**Credit: 1, Full Year**

**Prerequisite: Teacher approval**

The UIL Girl's Athletic program is an extension of the physical education program. The program is organized to provide students an opportunity to express themselves in interschool competition.

### **Basketball - Girls**

**Year 1 - 7374, Year 2 - 7454, Year 3 - 7455, Year 4 - 7456**

**Credit: 1, Full Year**

**Prerequisite: Teacher approval**

This course prepares girls for competitive basketball. Participants work to develop fundamentals of dribbling, passing, shooting, and defense. During the off-season students participate in conditioning activities.

### **Softball-Girls**

**Year 1 - 7723, Year 2 - 7724, Year 3 - 7725, Year 4 - 7726**

**Credit: 1, Full Year**

**Prerequisite: Teacher approval**

The students are involved in weight training, conditioning, and softball fundamentals.

### **Soccer – Girls**

**Year 1 - 7474, Year 2 - 7475, Year 3 - 7476, Year 4 - 7477**

**Credit: 1, Full Year**

**Prerequisite: Teacher approval**

Soccer is designed to allow those students who are physically adapted to the game to extend their skills. This course is a component of the physical education program.

### **Tennis**

**Year 1 – 7424, Year 2 - 7434, Year 3 - 7435, Year 4 - 7436**

**Credit: 1, Full Year**

**Prerequisite: Teacher approval**

This course is designed to improve stroke production and selection for competitive play. The UIL Athletic program is an extension of the physical education program. The program is organized to provide students an opportunity to express themselves in interschool competition.

### **Cheerleading – 7534, 7535, 7536, 7537**

**Credit: 1, Full Year**

**Prerequisite: Elected positions by tryouts**

Cheerleading consists of instruction in basic movement and voice activities involved in promoting spirit. Other activities include preparation for half-time shows, parades, pep rallies and other spirit activities. Cheerleading is an extension of the physical education program and requires athletic ability. Students may earn up to one full P.E. credit.

## ROTC

### **Army**

**JROTC LET I - 9914**

**Credit: 1, Full Year**

**Prerequisite: None**

**Endorsement: Public Services**

This class teaches students to appreciate the ethical values and principles of good citizenship; to develop leadership potential; to think logically and to communicate effectively; to appreciate the importance of physical fitness in maintaining good health; to understand the importance of high school graduation for a successful future; and to become familiar with military history as it relates to America's culture. Students get the unique opportunity to properly wear an Army uniform. JROTC spring or summer camps are an additional component of the program. Students will have the opportunity to participate in extracurricular activities such as drill team, color guard, Raider team, and the rifle marksmanship team.

### **Army**

**JROTC LET II, III, IV - 9924, 9934, 9944**

**Credit: 1, Full Year**

**Prerequisite: JROTC LET I**

**Endorsement: Public Services**

This course is a natural continuation of JROTC LET I and will follow much of the same format. Each additional LET course provides an in-depth study of the subjects introduced in LET I. Additionally, students are assigned staff positions within the JROTC program. Students develop, coordinate, and execute plans to support their staff position. Selected students may attend the JROTC spring/summer camp where they experience a confidence course, obstacle course, leadership reaction course, rifle marksmanship, water safety instruction and much more.

## Locally Developed Courses and Special Programs

### **SAT Practice – 1026 (Local Credit)**

**Credit: ½, Semester**

**Prerequisite: Concurrent enrollment or completion of Algebra II**

This course is designed for students who need the opportunity to improve SAT scores through realistic practice. Emphasis will be placed on test-taking skills and strategies, and problem solving. Students will grasp the underlying concepts of the



exam as well as increase their efficiency and speed with which they answer questions. **Local credit only.**

### **Life I, II, III, IV - 9018, 9028, 9038, 9048**

**Credit: 1, Full Year (Local Credit)**

**Prerequisite: Ages 18-21, completion of a minimum of 22 credits**

This program is designed to provide services in the areas of post-secondary education, integrated employment, vocational training, continuing and adult education, adult services, independent living, community participation, social/recreation/leisure, and other important life considerations that address the interests, preferences and needs of individual students ages 18-21 in an environment that replicates the environment of their peer group, individualized to each student. The program design focuses on transitioning the young adult from public school to the adult world in a manner that allows each participant to achieve his/her desired quality of life within an inclusive community.

### **Academic Skills I - 6178**

**Credit: 1, Full Year (Local Credit)**

**Prerequisite: Committee approval**

Students receive direct instruction in skills for academic preparation, organization, note taking, and test-taking skills, structured social skills, informed decision making, and interpersonal skills coping with daily stressors and handling conflict in a socially acceptable manner, as well as having time for completion of academic assignments.

## Innovative Courses

### **AP Capstone: Year 1 – AP Seminar - 9100**

**Grades 10-12**

**Credit: 1**

The Capstone program is built on the foundation of the two new AP Courses – AP Seminar and AP Research – and is designed to complement and enhance in-depth, discipline specific study provided through other AP courses. In **AP Seminar**, students investigate real-world issues from multiple perspectives, gathering and analyzing information from various sources in order to develop valid evidence-based arguments. In AP Capstone, Year 2, these students will enroll in AP Research. In AP Research, students cultivate the skills and discipline necessary to conduct independent research in order to produce and defend a scholarly academic paper. Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing. Students earn the AP Capstone diploma by both completing coursework (AP Seminar and AP Research) and AP Exams (scoring a three or higher on these two AP exams, as well as on four additional AP exams of their choosing).

### **AP Capstone: Year 2 – AP Research - 9101**

**Grades 10-12**

**Credit: 1**

**Prerequisite: AP Capstone: Year I – AP Seminar**

The Capstone program is built on the foundation of the two new AP Courses – AP Seminar and AP Research – and is designed to complement and enhance in-depth, discipline specific study provided through other AP courses. In , students investigate real-world issues from multiple perspectives, gathering and analyzing information from various sources in order to develop valid evidence-based arguments. In **AP Capstone**, Year 2, these students will enroll in AP Research. In AP Research, students cultivate the skills and discipline necessary to conduct independent research in order to produce and defend a scholarly academic paper. Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing. Students

earn the AP Capstone diploma by both completing coursework (AP Seminar and AP Research) and AP Exams (scoring a three or higher on these two AP exams, as well as on four additional AP exams of their choosing).

### **AVID I, II, III, IV – 9051, 9052, 9053, 9054**

**Credit: 1, Full Year**

**Prerequisite: Prior year of AVID or committee approval**

AVID (Advancement Via Individual Determination) students learn and apply strategies and methodologies that help them succeed in middle school and prepare for college. Writing, inquiry, collaboration, organization and reading strategies are used as part of the basis for instruction in the AVID classroom. In addition, Cornell notes, tutorials, Philosophical Chairs, and Socratic Seminars are introduced and used regularly with the AVID students All AVID students begin the process of college readiness by focusing on high academic achievement in all subjects.

### **Student Leadership – 9056**

**Credit: 1, Full Year**

**Prerequisite: Teacher approval**

Leadership class gives students the opportunity to learn life skills, to mentor elementary students, and to obtain credits for graduation. Curriculum includes goal-setting, problem solving, stress management, etc. *State credit granted.*

### **Sports Medicine I – 8445**

**Credit: 1, Full Year**

**Prerequisite: Principles of Health Science**

Sports Medicine I is designed to prepare the student in the science of injury prevention, treatment, and rehabilitation primarily as it relates to sports. Students will be provided with in- depth knowledge based on the concepts, skills and techniques commonly used in Athletic Training. This course includes classroom and practical sessions. This class is highly recommended for anyone considering a career in the medical fields, particularly Sports Medicine and Physical Therapy. Most colleges/universities request this class as a prerequisite for entering their Athletic Training and Sports Medicine programs. **This class does not count toward the Physical Education credits required for graduation.**

### **Sports Medicine II – 8446**

**Credit: 1, Full Year**

**Prerequisite: Sports Medicine I**

Sports Medicine II is designed as an independent study class with research and practical application components. Students will be enrolled during an athletic period and will work with different athletic teams before and after school. The research will primarily consist of concepts, skills and techniques commonly used in Athletic Training and Physical Therapy. This class is highly recommended for anyone considering a career in the medical fields, particularly Sports Medicine and Physical Therapy. This class is considered to be an honors class by college/university Athletic Training and Sports Medicine programs. **This class does not count toward the Physical Education credits required for graduation.**

### **Sports Medicine III – 8447**

**Credit: 1, Full Year**

**Prerequisite: Sports Medicine II**

Sports Medicine III is a course that provides a global exploration of fundamental injury rehabilitation topics facing students today. This course can only be taught by a nationally certified athletic trainer. The course deeply explores the injury rehabilitation process including full understanding of tissue healing and modalities. In addition, the student will demonstrate how both these and the required components of a complete rehabilitation plan is taken into account while addressing specific injuries and conditions. Small student learning groups will learn

economic management skills in creating an athletic training room supply list that will require adherence to a budget and being creative in money-saving strategies. **This class does not count toward the Physical Education credits required for graduation.**

#### **Student Leadership – 9056**

**Credit: 1, Full Year**

**Prerequisite: Teacher approval**

Leadership class gives students the opportunity to learn life skills, to mentor elementary students, and to obtain credits for graduation. Curriculum includes goal-setting, problem solving, stress management, etc. *State credit granted.*

## Career and Technical Education

\*Any prerequisites listed for CTE courses are recommended prerequisites.

\*Any prerequisites listed for CTE courses are suggested prerequisites.

\* For endorsement purposes, a sequence of courses for four or more credits in career and technical education (CTE) that consist of at least two courses in the same career cluster, including at least one advanced CTE course. The final course in the sequence must be selected from **one** of the following CTE career clusters:

### AGRICULTURE, FOOD, AND NATURAL RESOURCES CLUSTER

FFA is the club/organization for students enrolled in agricultural sciences. In order for all students to be members of the FFA and eligible to show livestock, they must take a minimum of one semester of agricultural science each school year.

#### **Principles of Agriculture Food and Natural Resources - 8004**

**Credit: 1, Full Year**

**Grade: 9-11**

**Prerequisite: None**

**Endorsement: Business and Industry**

This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. Students will learn the history of FFA, Parliamentary Procedure, History of Agriculture, breeds of livestock, Plant and Soil Science and basic mechanics. Opportunities will be made available to introduce students to FFA. The FFA is the largest and premiere youth group in the United States. Membership and raising a project are not required, but recommended.

#### **Food Technology and Safety - 8044**

**Credit: 1, Full Year**

**Grade: 10-12**

**Prerequisite: Principles of Agriculture Food & Natural Resources**

**Endorsement: Business and Industry**

This course prepares students for careers in value-added and food processing systems. Students acquire technical knowledge and skills related to value-added and food processing and develop skills regarding career opportunities, and agricultural industry expectations. This course examines the food technology industry as it relates to food production, handling, and safety.

#### **Food Processing - 8045**

**Credit: 1, Full Year**

**Grade: 10-12**

**Prerequisite: Food Technology and Safety**

**Endorsement: Business and Industry**

This course focuses on the food processing industry with special emphasis on the handling, processing, and marketing of food products. To prepare for careers in food products and processing systems, students must attain academic skills and knowledge, acquire technical opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skill in a variety of settings.

#### **Food Science - 8679**

**Credit: 1, Full year**

**Grade: 12**

**Endorsement: Business and Industry**

**Prerequisite: 3 science credits, including Chemistry and Biology.**

**Recommended Prerequisite: Principles of Hospitality and Tourism.**

**Students must meet the 40% laboratory and fieldwork requirement. This course satisfies a high school science graduation requirement.**

This course includes topics in food science, nature of science, scientific inquiry, science and social ethics, and science, systems, and models. Students will use scientific methods and equipment during laboratory and field investigations. This course will also incorporate the study of food safety and microbiology, chemical properties of food, functions of enzymes, fermentation, physiology of digestion, understanding metabolism, properties of vitamins, minerals, and water, and the food dehydration, canning, and freezing process.

#### **Wildlife, Fisheries and Ecology Management - 8074**

**Credit: 1, Full Year**

**Grade: 10-12**

**Suggested Prerequisite: Principles of Agriculture Food & Natural Resources**

**Endorsement: Business and Industry**

A technical course designed to examine the importance of wildlife and outdoor recreation with emphasis on using wildlife and natural resources. Hunter safety certification is also taught in this class, as well as wildlife identification for judging.

#### **Livestock Production - 8084**

**Credit: 1, Full Year**

**Grade: 10-12**

**Prerequisite: None**

**Endorsement: Business and Industry**

Students will learn about careers in the field of animal Science. The primary animal species that will be studied in this course is beef cattle, dairy cattle, swine, goats, and poultry.

#### **Small Animal Management – 8014/Equine Science - 8094**

**These two courses are scheduled to be taken together.**

##### **Small Animal Management**

**Credit: ½, Semester**

**Grade: 10-12**

**Suggested Prerequisite: Principles of Agriculture Food & Natural Resources**

**Endorsement: Business and Industry**

This course will prepare students for careers in the field of animal science. Students need to acquire knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, and industry expectations. Small animals that may be included in the course of study include, but are not limited to, small mammals, amphibians, reptiles, avian, dogs, and cats.

##### **Equine Science**

**Credit: ½, Semester**

**Grade: 10-12**

**Prerequisite: Principles of Agriculture Food & Natural Resources**

**Endorsement: Business and Industry**

The care and management of horses has developed into Equine Science, a multi-million dollar industry. The course will help the novice and the student who is already active in the horse industry to learn selection, nutrition, reproduction health, judging, and management of horses, donkeys or mules. Judging trips and tours are an integral and common part of the course.



**Landscape Design Management – 8124/Turf Grass Mngt. -8129**

**These two courses are scheduled to be taken together.**

**Landscape Design Management**

**Credit: ½, Semester** **Grade: 10-12**

**Prerequisite: Principles of Agriculture Food & Natural**

**Resources**

**Endorsement: Business and Industry**

This course is designed to develop an understanding of landscape and turf grass management techniques and practices, and gain certifications. Students will gain hands on landscape experience.

**Turf Grass Management**

**Credit: ½, Semester** **Grade: 10-12**

**Prerequisite: Principles of Agriculture Food & Natural**

**Resources**

**Endorsement: Business and Industry**

Turf Grass Management is designed to develop an understanding of turf grass management techniques and practices. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.

**Range Ecology and Management - 8744**

**Credit: 1, Full Year** **Grade: 10-12**

**Prerequisite: None**

**Endorsement: Business and Industry**

This course is designed to develop students understanding of rangeland ecosystems and sustainable forage production, as well as Range identification for judging.

**Floral Design - 8674**

**Credit: 1, Full Year** **Grade: 10-12**

**Prerequisite: None**

**Endorsement: Business and Industry**

This course is designed to develop skills in the design and arrangement of flowers, foliage, and related plant materials for interior locations. Students will create floral arrangements. **This course will satisfy the Fine Arts credit.**

**Horticulture Science – 8024**

**Credit: 1, Full Year** **Grade: 10-12**

**Prerequisite: Principles of Agriculture Food & Natural**

**Resources**

**Endorsement: Business and Industry**

This exploratory course is designed as an introduction to horticultural science with emphasis on technical skills and career opportunities, and certifications. Students will gain hands on experience working with plants.

**Agribusiness Management and Marketing - 8164**

**Credit: 1, Full Year** **Grade: 10-12**

**Prerequisite: None**

**Endorsement: Business and Industry**

This course will prepare students for careers in agribusiness systems. Students will attain technical knowledge and skills related to agribusiness marketing and management and the workplace, and develop knowledge and skills regarding career opportunities, and agricultural industry expectations. 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.

**Agricultural Power Systems – 8249**

**Credit: 2, Full Year** **Grade: 10-12**

**Prerequisite: Principles of Agriculture, Food, and Natural**

**Resources**

**Endorsement: Business and Industry**

Agricultural Power Systems is designed to develop an understanding of power and control systems as related to energy sources, small and large power systems, and agricultural machinery. To prepare for careers in agricultural power, structural, and technical systems, students must attain academic skills and knowledge; acquire technical knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and technical skills in a variety of settings.

**Agriculture Mechanics and Metal Technology – 8404**

**Credit: 1, Full Year** **Grade: 10-12**

**Prerequisite: None**

**Endorsement: Business and Industry**

This is a hands-on learning course that allows students to develop skills in metalworking, welding, tool use, and carpentry. Students will also be exposed to electricity, plumbing, and masonry.

Once student skills are sharpened they will have the opportunity to plan and construct metal and wood projects. Students may gain certifications in carpentry, painting and welding.

**Agricultural Equipment Design and Fabrication (Woods) – 8239**

**Credit: 1, Full Year** **Grade: 10-12**

**Prerequisite: Agriculture Mechanics and Metal Technologies**

**Endorsement: Business and Industry**

In Agricultural Equipment Design and Fabrication, students will acquire knowledge and skills related to the design and fabrication of agricultural equipment. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural equipment design and fabrication. To prepare for success, students reinforce, apply and transfer their academic knowledge and technical skills in a variety of settings.

**Agricultural Structure Design and Fabrication - 8234**

**Credit: 1, Full Year** **Grade: 11-12**

**Prerequisite: Agriculture Mechanics and Metal Technologies or Welding**

**Endorsement: Business and Industry**

A more advanced hands on learning course that allows students to further welding and construction skills learned in previous shop courses. Students will learn skills related to facility design and fabrication. More specific skills in site location, material installation, and construction methods are learned. Students will have the opportunity to develop plans and construct projects using metalworking, welding and woodworking. Students may gain certifications in electrical, pipefitting, plumbing, masonry and sheet metal.

**Veterinary Medical Applications - 8043**

**Credit: 1, Full Year** **Grade: 11-12**

**Prerequisite: Principles of Agriculture Food and Natural**

**Resources and/or Livestock Production and Equine & Small Animal Management**

**Endorsement: Business and Industry**

This course will cover topics that are relative to veterinary practices as they relate to both large and small animal species. Students will learn aspects related to veterinary hospital management, medical terminology, animal identification, mathematical calculations, animal health and diseases, animal care procedures, and surgical-assisting procedures.

**Agricultural Laboratory and Field Experience – 8259**

**Credit: 1, Full Year** **Grade: 11-12**

**Prerequisite: Coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources Career Cluster. [It may be paid or unpaid]**

This course provides an enhancement opportunity for students to develop the additional skills necessary to pursue industry

certification. Recommended prerequisite: a minimum of one credit from the courses in the Agriculture, Food, and Natural Resources Career Cluster. Corequisite: any course in the Agriculture, Food, and Natural Resources Career Cluster, excluding Principles of Agriculture, Food, and Natural Resources. This course must be taken concurrently with a corequisite another relevant course from the Agriculture, Food, and Natural Resources Career Cluster and may not be taken as a stand-alone course. Laboratory and Field Experience is designed to provide students a laboratory and/or field experience opportunity. To prepare for careers in agriculture, food, and natural resources, students must acquire knowledge and skills that meet entry requirements and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer academic knowledge and technical skills in a variety of settings.

## **ARCHITECTURE AND CONSTRUCTION CLUSTER**

### **Principles of Construction – 8380**

**Credit: 1, Full Year**

**Grade: 9-12**

**Prerequisites: None**

**Endorsement: Business and Industry**

Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

## **ARTS, AV TECHNOLOGY AND COMMUNICATIONS CLUSTER**

### **Principles of Arts, AV, and Technology - 8274**

**Credit: 1, Full Year**

**Grade: 9-12**

**Prerequisite: None**

**Endorsement: Business and Industry**

**This course is recommended for students in grade 9.**

This is the intro level course leading into Graphic Design, Audio/Video Production, Digital & Interactive Media, Animation, or Video Game Design. 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. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.

### **Animation - 8682**

**Credit: 1, Full Year**

**Grade: 10-12**

**Prerequisite: Principles of Arts, AV, and Technology**

**Endorsement: Business and Industry**

This course will focus on animation principles to create a digital portfolio. Topics covered will include the 12 Principles of Animation and industry standard software such as Adobe Flash and Autodesk Maya. The student will work individually to create small projects concentrating on separate principles to maximize learning and develop an understanding of the industry.

### **Animation II - 8689**

**Credit: 1, Full Year**

**Grade: 11-12**

**Prerequisite: Animation**

**Endorsement: Business and Industry**

This course will focus on 3D animation concepts to create a digital portfolio. Topics covered will be modeling, texturing, rigging, animation and rendering. The student will design

characters and create them in a 3D environment then build the skeleton and controls to make them move. Storytelling will be a main focus of this class as well as competing in the UIL Young Filmmakers Festival.

### **Practicum in Animation I - 8685**

**Credit: 2, Full Year**

**Grade: 11-12**

**Prerequisite: Animation**

**Endorsement: Business and Industry**

The Arts, Audio/Video Technology, and Communications Career Cluster focuses on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content, including visual and performing arts and design, journalism, and entertainment services. Careers in animation span all aspects of the arts, audio/video technology, and communications industry. Building upon the concepts taught in Animation II and its corequisite Animation II Lab, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production, and post-production animation products in a professional environment. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

### **Practicum in Animation II - 8690**

**Credit: 2, Full Year**

**Grade: 11-12**

**Prerequisite: Animation**

**Endorsement: Business and Industry**

Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations. Statements that contain the word "including" reference content that must be mastered, while those containing the phrase "such as" are intended as possible illustrative examples.

### **Audio Video Production I - 8684**

**Credit: 1, Full Year**

**Grade: 10-12**

**Prerequisite: Principles of Arts, AV Tech or Graphic Design**

**Endorsement: Business and Industry**

Have you ever dreamed of making your own movies? In Audio Video Production that's exactly what we do. We use Mac computers and the latest and greatest film making software, Macintosh Final Cut Pro, to make our own live action, animated, multi-camera, and sound-dubbed films. You'll learn pre-production, editing, and post-production techniques that will allow you to export your films in a variety of formats for DVD, Web, and Podcast use. AND you will have the opportunity to earn your Apple Certified Level I End User Certification for Final Cut Pro should you wish to do so. This class is for serious filmmakers only because there is a lot to learn!

### **Audio Video Production II - 8691**

**Credit: 1, Full Year**

**Grade: 10-12**

**Prerequisite: Audio Video Production & student MUST see teacher BEFORE registering for this course.**

**Endorsement: Business and Industry**

Did you enjoy Audio Video Production last year, but don't have a two-hour slot available in your schedule this year? Not to worry. This course is designed for you to further advance all your filmmaking knowledge and skills. Your previous skills will be put to the test creating films for competition and possibility for profit? Hone your filmmaking skills and create projects you can be truly proud of. Learn advanced Final Cut Pro techniques, scriptwriting, and more. What other class gives you that? Students may also have the opportunity to host a student-produced film festival here at CLHS.

### **Graphic Design and Illustration - 8204**

**Credit: 1, Full Year**

**Grade: 9-12**

**Prerequisite: Good keyboarding skills & basic computer knowledge. Principles of Arts & AV Technology recommended**

**Endorsement: Business and Industry**

Learn Adobe Illustrator and Photoshop – two programs used widely throughout the art, business, scientific, design and multimedia industries. Build two-dimensional cartoons and artwork in Illustrator and Photoshop and learn to animate them in Photoshop and Flash. Find out what your digital camera is capable of and how to improve and artistically alter your pictures using Photoshop. Don't pay big bucks for this knowledge years from now! Learn it now while you're still young, and while it's free!

**Graphic Design and Illustration II - 8205**

**Credit: 1, Full Year** **Grade: 11-12**

**Prerequisite: Graphic Design and Illustration and student should see teacher prior to registration for materials and supplies.**

**Endorsement: Business and Industry**

This course is designed for the 2nd-4th year Graphic Design student. Don't have a 2-hour slot in your schedule this year for Adv. Graphic Design? Not to worry. The Problems and Solutions course is designed to give you the opportunity to take what you learned last year in Graphic Design and Illustration or Advanced Graphic Design to the next level in a one-hour course. Work on advanced projects that combine Illustrator, Photoshop and other software in new and exciting ways. Want to dive more into animation – go for it! Interested in finding out how to sell photos for profit – you can! Want to build websites for your use or to sell to companies? Why not? Individual interests and custom tailored projects are the name of the game in this class. Head to college with a whole lot of knowledge! Students will also perform as lab assistants for incoming design students, and will participate in a variety of design contests hosted by local organizations needing designs for various purposes in our community.

**Video Game Design - 8686**

**Credit: 1, Full Year** **Grade: 10-12**

**Prerequisite: None**

**Endorsement: Business and Industry**

Careers in Video Game Design span all aspects of the video gaming industry. Within this context, in addition to developing knowledge and skills needed for success in the career cluster, students will be expected to develop, design, problem solve, program and create functional video games. Students will be introduced to programming language and skills that are essential to developing an advanced understanding of the industry with a focus on design and implementation activities.

**Video Game Programming - 8209**

**Credit: 1, Full Year** **Grade 11-12**

**Prerequisite: Video Game Design & student should see teacher prior to registration for materials and supplies.**

**Endorsement: Business and Industry**

Careers in Video Game Design span all aspects of the video gaming industry. Within this context, in addition to developing knowledge and skills needed for success in the career cluster, students will be expected to develop, design, problem solve, program and create functional video games. Students will advance in the programming language and skills that are essential to developing an advanced understanding of the industry with a focus on design and implementation activities.

## **BUSINESS MANAGEMENT AND ADMINISTRATION CLUSTER**

**Principles of Business Marketing and Finance - 8668**

**Credit: 1, Full Year** **Grade: 9-12**

**Prerequisite: None**

**Endorsement: Business and Industry**

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Do you like to shop? Sharpen your shopping skills while learning about advertising, marketing and finance. In this class you will learn how to improve your talents, abilities and business skills. Are you a trendsetter? Would you like to own your own business? Put your imagination to work when planning investment and advertising strategies.

**Global Business - 8154/Virtual Business - 8174**

**These two courses are scheduled to be taken together.**

**Global Business**

**Credit: ½, Semester**

**Grade: 10-12**

**Prerequisite: None**

**Endorsement: Business and Industry**

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

**Virtual Business**

**Credit: ½, Semester**

**Grade: 10-12**

**Prerequisite: None**

**Endorsement: Business and Industry**

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

**Business Information Management I - 8643**

**Credit: 1, Full Year**

**Grade: 9-12**

**Prerequisite: Must follow dual credit process; TSI required for dual credit.**

**Endorsement: Business and Industry**

Have you dreamed of becoming an entrepreneur or a tycoon in the business industry? As a student in Business Information Management you will go beyond the basics and get a head start on mastering the most popular business software suite-- Microsoft Office. Learn Word, Excel, Power Point and Access and have the opportunity to earn the MCAS Certification (Microsoft Certified Application Specialist). Learn important technology and business skills while utilizing your creativity. Field trips to area business will be planned to discover and emphasize how "Business" can be found in every career.

**Business Information Management II - 8653**

**Credit: 1, Full Year**

**Grade: 10-12**

**Prerequisite: Business Information Management**

**Endorsement: Business and Industry**

As a student in the second year of Business Information Management you will strengthen your individual performance in work place, society, & business management skills. The world of business, as a future goal, is nurtured and all business and technical skills will be reinforced. Oral & written communication, teamwork, public relations, and leadership skills are emphasized through student's implementation of their own business projects. Student will have further opportunities to receive their MOS Certifications. Field trips to area business help discover & emphasize how "Business" can be found in every career.

**Incubator/Business Management - 8704**

**Credit: 1, Full Year**

**Grade: 11-12**

**Prerequisite: Business Information Management**

**Endorsement: Business and Industry**

Career and technical education instruction provides content aligned with challenging academic standards and relevant technical knowledge and skills for students to further their education and succeed in current or emerging professions. The Business Management and Administration Career Cluster focuses on careers in planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management is

designed to familiarize students with the concepts related to business management as well as the functions of management, including planning, organizing and staffing.

## EDUCATION AND TRAINING CLUSTER

### Principles of Education and Training – 8971

**Credit: 1, Full Year** **Grade: 9-11**

**Prerequisite: None**

**Endorsement: Public Services**

This course is designed to introduce students to the Education and Training Cluster. Students will explore careers in education, teaching and training, administration, and administrative support. They will explore the political and historical trends, as well as the cultural and societal changes that have affected the educational system across America. Students will explore graduation plans at will compare technical, community college, and university programs and how they align with interest areas. This course is an excellent introductory course for those interested in the field of education.

### Instructional Practices (Ready, Set, Teach I) - 8964

**Credit: 2, Full Year** **Grade: 11-12**

**Prerequisite: Student should see teacher prior to registration for materials and supplies.**

**Endorsement: Public Services**

Have you considered a career in education? Would you like hands on experience working in the classroom with elementary, middle, or high school students before you go to college? Practicum in Education and Training is a 2 credit field-based internship that provides students background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students will mentor with an experienced elementary, middle or high school teacher along with education and training from an experienced Family and Consumer Sciences teacher. Students learn to plan and direct individualized instruction and group activities, prepare lesson plans, assist with record keeping, and complete other responsibilities of classroom teachers, trainers, paraprofessionals, or other educational personnel. The students must provide their own transportation.

### Practicum in Education and Training (Ready, Set, Teach II) - 8974

**Credit: 2, Full Year** **Grade: 12**

**Prerequisite: Instructional Practices in Education and student should see teacher prior to registration for materials and supplies.**

**Endorsement: Public Services**

Did you love Instructional Practices in Education and Training and working in the school setting with a mentor teacher? Practicum in Education and Training is a 2 credit field-based internship that provides students extended background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students will apply their experience by planning instructional materials and teaching in a classroom setting of their interest with a mentor teacher along with mentoring to first year Education and Training students. The students must provide their own transportation.

## HEALTH SCIENCE CLUSTER

### Principles of Health Science Technology - 8414

**Credit: 1, Full Year** **Grade: 9-12**

**Prerequisite: None**

**Endorsement: Public Services**

This course is designed to provide an opportunity for understanding the concepts and skills necessary for entering the health care field. Essential elements included in this course are current events in health care, medical terminology, anatomy and physiology (build body using clay!), human growth and development, CPR, first aid, basic concepts of

illness and wellness, medical communications skills, and interpersonal relationships

### Medical Terminology - 9174

**Credit: 1, Full Year**

**Grade: 10-12**

**Prerequisite: None**

**Endorsement: Public Services**

This course is designed to help students develop a working knowledge of the language of medicine. Students are introduced to the structure of medical terms including prefixes and suffixes, combining forms and word roots, plus medical abbreviations and acronyms. The Dean Vaughn Medical Terminology 350 system is used in this course. This unique and proven teaching program has unsurpassed learning and retention success rates. Knowledge of medical terminology enhances the student's ability to successfully secure employment or pursue advanced education in health care.

### Health Science Theory– 8424

**Credit: 2, Full Year**

**Grade: 10-12**

**Prerequisite: Biology, Chemistry, and Medical Terminology recommended. Principles of Health Science.**

**Endorsement: Public Services**

This course is designed to help students develop the essential knowledge and skills for entering the health care profession elements included in this course are legal and ethical responsibilities, promotion of safety, infection control, vital signs, medical terminology, and current events in health care.

### Health Science Theory/Health Science Clinical (Clinical Rotations)– 8434

**Credit: 2, Full Year**

**Grade: 11-12**

**Prerequisite: Biology, Chemistry, and Medical Terminology recommended. Principles of Health Science Technology required.**

**Student should see teacher prior to registration for an application. Students will have to submit an application for this course.**

**Endorsement: Public Services**

This course is designed to develop the knowledge and skills related to a wide variety of health careers. Students will have hands-on experiences for continued knowledge and skill development. Students will be introduced to a variety of aspects of health care by rotation among various departments in a hospital setting as well as the community setting. Students will be required to purchase scrubs and shoes for our clinical uniform. Students are required to provide own transportation. Grooming conditions apply. This course is designed for a mature student as real life medical conditions apply and students must behave professionally at all times. Students may earn certifications in medical assisting and EKG with this course.

### Anatomy and Physiology – 8408

**Credit: 1, Full Year**

**Grade: 11-12**

**Endorsement: STEM, Public Services**

Anatomy and Physiology is an advanced course recommended for students with a strong interest in science and good study skills. In this course, students conduct laboratory investigations and fieldwork. Students will study the structures and functions of the human body and body systems and will investigate the body's responses to forces; maintenance of homeostasis; electrical interactions; transport systems; and energy systems.

### Anatomy and Physiology Dual Credit – 8410

**BIOL 2401/BIOL 2402**

**Credit: 1, Full Year**

**Grade: 11-12**

**Prerequisite: Biology and a second science.**

**Prerequisite: Must follow dual credit process; TSI required for dual credit.**

**Endorsement: STEM, Public Services**

Anatomy and Physiology is an advanced course recommended for students with a strong interest in science and good study skills. In this course, students conduct laboratory investigations and fieldwork. Students will study the structures and functions of the human body and body systems and will investigate the body's responses to forces; maintenance of homeostasis; electrical interactions; transport systems; and energy systems.

**Health Science Theory/Health Science Clinical– 8434****Credit: 2, Full Year** **Grade: 11-12**

**Prerequisite: Biology, Chemistry, and Medical Terminology recommended. Principles of Health Science Technology and Health Science recommended unless approved by teacher. Student should see teacher prior to registration for materials and supplies.**

**Endorsement: Public Services**

This course is designed to develop the knowledge and skills related to a wide variety of health careers. Students will have hands-on experiences for continued knowledge and skill development. Students will be introduced to a variety of aspects of health care by rotation among various departments in a hospital setting. Students will take a CAN Course and sit for the state exam. Course fees of approximately \$100 are required. Students must have a social security number and be able to purchase specific clothing to attend clinical sites. Grooming conditions apply. This course is designed for a mature student as real life medical conditions apply and students must behave professionally at all times.

**HOSPITALITY AND TOURISM CLUSTER****Principles of Hospitality and Tourism - 9224****Credit: 1, Full Year** **Grade: 9-12****Prerequisite: None****Endorsement: Business and Industry**

This course provides an introduction to the many facets of the Hospitality & Tourism industry, including lodging; travel and tourism; recreation, amusements, attractions, and resorts; and restaurants and food and beverage service. Students will develop knowledge and skills to function effectively in various positions within this multi-faceted industry. Knowledge-based learning will extend beyond the classroom through hospitality related businesses in the community.

**HUMAN SERVICES CLUSTER****Principles of Human Services - 8120****Credit: 1, Full Year** **Grade: 9-12****Prerequisite: None****Endorsement: Public Services**

Learn about life. Map out your future and start deciding what you want to do when you grow up. This comprehensive laboratory course enables 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 introductory course provides practical information in the areas of self-discovery, relationships, consumer resource management, housing/interior design, child care and development, nutrition and food preparation, clothing selection and maintenance, and career preparation essential for becoming successful personally and in the work place.

**Child Development - 8344****Credit: 1, Full Year** **Grade: 10-12****Prerequisite: None****Endorsement: Public Services**

Do you like children? Are you interested in a career working with children? If you answered "yes", then this course is for you! This course focuses on the many areas of development of children from conception through childhood, including

those children with special needs. Other topics include proper prenatal care, providing appropriate activities for children, as well as information on child care related careers.

**Counseling and Mental Health – 8329****Credit: 1, Full Year** **Grade: 10-12****Prerequisite: None****Endorsement: Public Service**

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

**Human Growth and Development – 8975****Credit: 1, Full Year** **Grade: 10-12****Prerequisite: None****Endorsement: Public Service**

This course is recommended for students in Grades 10-12. Recommended prerequisite: Principles of Education and Training. Students shall be awarded one credit for successful completion of this course. Human Growth and Development is an examination of human development across the lifespan with emphasis on research, theoretical perspectives, and common physical, cognitive, emotional, and social developmental milestones. The course covers material that is generally taught in a postsecondary, one-semester introductory course in developmental psychology or human development.

**Family and Community Services - 9046****Credit: 1, Full Year** **Grade: 11-12****Prerequisite: See teacher for course information packet.****Endorsement: Public Services**

If you are interested in community service experiences, then this course is designed for you. Students will plan and implement community service activities through community service projects each semester. Through these service opportunities students will develop and enhance their organizational and leadership skills and characteristics. Opportunities will also be provided for students to mentor elementary and middle school students on their respective campuses. Students will explore careers, agencies, and organizations focusing on family services

**Practicum of Human Services – 9076****Credit: 2, Full Year** **Grade: 11-12****Endorsement: Public Service**

This course is recommended for students in Grades 11 and 12. A student may repeat this course once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills. Practicum in Human Services provides background knowledge and occupation-specific training that focuses on the development of consumer services, early childhood development and services, counseling and mental health services, and family and community-services careers. Content for Practicum in Human Services is designed to meet the occupational preparation needs and interests of students and should be based upon the knowledge and skills selected from two or more courses in a coherent sequence in the human services cluster.

**INFORMATION TECHNOLOGY CLUSTER****Principles of Cyber Security – 8880****Credit: 1, Full Year** **Grade: 9-12****Prerequisite: None**

This course develops the knowledge and skills needed to master fundamental concepts of cybersecurity. Students in the course will develop a basic foundation for continuing their cybersecurity education and choosing a career in the cybersecurity field.

#### **Principles of Information Technology – 8833**

**Credit: 1, Full Year** **Grade: 9-12**

**Prerequisite: None**

This course develops the knowledge and skills needed to master fundamental concepts of Information Technology. Students in the course will develop a basic foundation for continuing their information technology education and choosing a career in the information technology field.

#### **Digital Media - 8683**

**Credit: 1, Full Year** **Grade: 10-12**

**Prerequisite: Principles of Arts & AV Technology or Graphic Design**

**Endorsement: Business and Industry**

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

#### **Information Technology and Security Academy - 9065**

**Credit: 3, Full Year** **Grade: 12**

**Prerequisite: TSI, Application/Dual Credit. This course is offered at Central Texas Technology Center. See Counselor for enrollment packet**

**Endorsement: Business and Industry, Public Services**

(ITSA) is a dual credit program for high school juniors and seniors sponsored by the Alamo Community College District. The goal of the program is to provide students with an introductory experimental and didactic curriculum in Information Security and Assurance. Students receive specialized instruction and training from college professors in Information Technology, Operating Systems, Networking, Information Security, and Computer Programming. In addition, the students are eligible to participate in the Summer Internship Program, which provides them with the opportunity to utilize their knowledge, skills, and abilities in a "real-world" work environment. The students acquire high school and 27 hours of technical college level credit, and at the conclusion of the program, they earn a Certificate of Completion in Information Security and Assurance from the Alamo Community College District. ITSA will be offered at the Central Texas Technology Center.

## **LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY CLUSTER**

#### **Principles of Law, Public Safety, Corrections and Security - 8570**

**Credit: 1, Full Year** **Grade: 9-12**

**Prerequisites: None**

**Endorsement: Public Services**

Have you ever considered a career as a police officer, firefighter or judge? Come explore the possibilities of the criminal justice system. This course is an overview of the various professions in the field of public safety. The students will explore the various opportunities and requirements of professions in the law enforcement industry. Students will participate in some hands on activities that will allow them to experience various aspects of the public safety professions.

#### **Law Enforcement I – 8904**

**Credit: 1, Full Year** **Grade: 10-12**

**Suggested Prerequisites: Principles of Law, Public Safety, Corrections & Security**

**Endorsement: Public Services**

This course will provide a general overview of current law enforcement procedures, communication skills, criminal law, law enforcement terminology, traffic stops, basic field notes and police incident report writing; and basic crime scene procedures. The course will also include an overview of the history, organization and functions of local, state, and federal law enforcement. This class will involve hands-on training with equipment commonly used in the field of law enforcement.

#### **Law Enforcement II - 8924**

**Credit: 1, Full Year** **Grade: 10-12**

**Prerequisites: Law Enforcement I**

**Endorsement: Public Services**

This course will provide knowledge and skills necessary to prepare for a career in law enforcement. The study of common police procedures telecommunications, advanced field note taking and report writing; use of force; arrest procedures; search and pat down procedures; crowd control; accident investigations felony traffic stops; courtroom testimony. The course will also include the ethical and legal responsibilities of law enforcement officers. This course will include role-playing and hands on learning with commonly used law enforcement equipment.

#### **Correctional Services – 8914**

**Credit: 1, Full Year** **Grade: 10-12**

**Suggested prerequisite: Principles of Law, Public Safety, Corrections, and Security.**

**Endorsement: Public Services**

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

#### **Criminal Investigation – 8926**

**Credit: 1, Full Year** **Grade: 10-12**

**Suggested prerequisite: Principles of Law, Public Safety, Corrections, and Security.**

**Endorsement: Public Services**

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

#### **Forensic Science – 9249**

**Credit: 1, Full Year**

**Prerequisite: Biology & Chemistry. Completion or concurrent enrollment in any Law, Public Safety, Corrections, and Security Career Cluster course is recommended.**

**Student must meet the 40% laboratory and fieldwork requirement.**

**Endorsement: STEM**

Forensic Science is a course that introduces students to the application of science to connect a violation of law to a

specific criminal, criminal act, or behavior and victim. Students will learn terminology and procedures related to the search and examination of physical evidence in criminal cases as they are performed in a typical crime laboratory. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hair, fibers, paint, glass, and cartridge cases. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science.

## MANUFACTURING CLUSTER

### Precision Metal Manufacturing I – 9035

**Credit: 1, Full Year**  
**ATMA @ CTTC**

**Grade: 11**

### Manufacturing Engineering Tech I – 9135

**Credit: 2, Full Year**  
**ATMA @ CTTC**

**Grade: 11-12**

## STEM CLUSTER

### Principles of Applied Engineering - 8774

**Credit: 1, Full Year**

**Grade: 9-12**

**Prerequisite: None**

**Endorsement: STEM**

Principles of Engineering and Technology will offer the student the opportunity to gain knowledge and skills in the fields of science, engineering, mathematics and technology by completing assignments and projects using a variety of hardware and software. The student will investigate available opportunities and careers in these fields. Furthermore, the student will be a part of a variety of problem solving activities including a design team that will participate in a cumulative project that involves the development, testing, and presentation of a model while following appropriate safety guidelines.

### Robotics I – 8929

**Credit: 1, Full Year**

**Grade: 9-12**

**Prerequisite: None**

**Endorsement: STEM**

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

### Robotics II – 8930

**Credit: 1, Full Year**

**Grade: 10-12**

**Prerequisite: Robotics I**

**Endorsement: STEM**

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

### Engineering Design and Presentation I - 8934

**Credit: 1, Full Year**

**Grade: 10-12**

**Prerequisite: Prerequisite: Principles of Applied Engineering AND teacher recommendation required**

**Endorsement: STEM**

Students enrolled in this course will demonstrate knowledge and skills of the process of design as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model

renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students will transfer advanced academic skills to component designs. Additionally, students explore career opportunities in engineering, technology, and drafting and what is required to gain and maintain employment in these areas.

### Engineering Design and Problem Solving – 9009

**Credit: 1, Full Year**

**Grade: 11 - 12**

**Prerequisite: Algebra I & Geometry.**

**Suggested Prerequisite: Two Science, Technology, Engineering, and Mathematics (STEM) Career Cluster credits.**

**Endorsement: STEM**

Engineers are shaping the future and taking on the world's biggest challenges through an Engineering Design Process. Engineering design is the creative process of solving problems by identifying needs and then devising solutions in a systematic way. Science aims to understand the natural world, while engineering seeks to shape this world to meet human needs and wants. Engineering design takes into consideration limiting factors or "design under constraint." Various engineering disciplines address a broad spectrum of design problems using specific concepts from the sciences and mathematics to derive a solution. Students will engage in authentic engineering practices in a project-based environment over a series of engaging and socially relevant design challenges.

### Engineering Mathematics – 8999

**Credit: 1, Full Year**

**Grade: 11 - 12**

**Suggested Prerequisite: Algebra II**

**Endorsement: STEM**

Engineering Mathematics is a course where students solve and model robotic design problems. Students use a variety of mathematical methods and models to represent and analyze electrical measurement, manufacturing processes, materials engineering, mechanical drives, pneumatics, process control systems, quality control, and robotics with computer programming.

## TRANSPORTATION, DISTRIBUTION, LOGISTICS CLUSTER

### Automotive Technology - 8504

**Credit: 2, Full Year**

**Grade: 11-12**

**Prerequisites: All students must attend class at CHS. Bus transportation from CLHS will be provided.**

**Endorsement: Business and Industry**

**Fees: Uniform/Skills USA. Students must meet requirements of St. Philip's College.**

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

### Automotive Technology II - 8534

**Credit: 2, Full Year**

**Grade: 12**

**Prerequisites: All students must attend classes at CHS. Bus transportation from CLHS will be provided.**

**Endorsement: Business and Industry**

Automotive services include advanced knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. In Advanced Automotive Technology, students gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study allows students to reinforce, apply, and transfer

academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this

course is to teach the theory of operation of automotive vehicle systems and associated repair practices.

It is the policy of Comal Independent School District not to discriminate on the basis of race, color, national origin, sex or disability in its career and technical education 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.

Es norma de Comal Independent Distrito Escolar no discriminar por base de raza, color, origen nacional, sexo o impedimento, en sus programas de Educación y Carreras Técnicas servicios o actividades vocacionales, tal como lo requiere el Título VI de la enmienda de la Ley de Derechos Civiles de 1964, el Título IX de las enmiendas de Educación, de 1972, y las enmiendas de la Sección 504 del Acta de Rehabilitación de 1973.