

Smithson Valley High School Course Guide 2019-2020



Smithson Valley High School

Course Guide

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Table of Contents

General Information for Students and Parents	Page
Graduation Plan -----	4
General Information -----	5
Grade Level Classifications -----	5
Grade Averaging -----	5
Ranking Classification -----	5
Class Rank -----	5
Pre-Advanced Placement (Pre-AP) -----	5
Advanced Placement -----	5
Dual Credit -----	5
Gifted and Talented Program for High School Students -----	6
Graduation Ceremony Participation -----	6
Diploma Requirement -----	6
Early Graduation -----	6
College Assessment -----	6
Automatic Admission to Public University for Top 10% -----	6
Alternative Credit Opportunities -----	6
Correspondence Courses -----	6
Credit by Examination with Prior Instruction -----	6
Credit by Examination for Accelerations -----	7
Credit Obtained through College Program -----	7
Texas Virtual School Network -----	7
Summer School/Semester -----	7
Credit Recovery -----	7
The Advanced Technical Credit Program -----	7
Transcript of Credits -----	7
NCAA Guidelines -----	7
Course Availability -----	7
Schedule Changes -----	7
Course Selection -----	8
Class Rank Chart -----	9
Automatic College Admission -----	10
Endorsements -----	11
CISD Math Sequence -----	12
CISD Science Sequence -----	13
CISD Social Studies Sequence -----	15

Course Descriptions

English Language Arts -----	16
Speech -----	17
English Electives -----	17
Mathematics -----	18
Science -----	20
Science Electives -----	22
Social Studies -----	23
Social Studies Electives -----	24
World Languages -----	25
Fine Arts -----	25
Visual Arts -----	25
Theatre Arts -----	27
Dance -----	28
Band -----	28
Choral Music -----	29
Physical Education and Health -----	30
ROTC -----	32
Locally Developed Courses -----	32
Innovative Courses -----	33
Career and Technical Education (CTE) -----	34
Agriculture, Food, and Natural Resources Cluster -----	34
Architecture and Construction Cluster -----	36
Arts, AV Technology and Communications Cluster -----	36
Business Management and Administration Cluster -----	38
Education and Training Cluster -----	38
Finance Cluster -----	39
Health Science Cluster -----	40
Hospitality and Tourism Cluster -----	40
Human Services Cluster -----	41
Information Technology Cluster -----	41
Law, Public Safety, Corrections, and Security Cluster -----	42
Manufacturing Cluster -----	43
Marketing Cluster -----	43
STEM Cluster -----	44
Transportation, Distribution, Logistics Cluster -----	44

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	
Advanced English Course	1		Advanced English Course	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:

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

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.

*For students entering high school in the 2014-2015 school year or later, a distinguished level of achievement is needed to be considered for the top 10% automatic admission.

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=2147485632>.

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 World Languages 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 acknowledgement 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 sub-score)

A student may earn a performance acknowledgement 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 th in 2014 – 2015	
3 credits of Math: 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:	
Curriculum requirements for the endorsement: A total of four credits in math A total of four credits in science Two additional electives	STEM Endorsement: Biology Chemistry Physics Algebra II

CISD Recommended Math Sequence		
9th Gr.	Algebra I	PreAP Geometry
10th Gr.	Geometry	PreAP Algebra II
11th Gr.	Algebra II	PreAP PreCalculus
12th Gr.	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
Algebra I	Successful completion of 8 th Grade Math or PreAP 7 th Grade math required	College Algebra/ PreCalculus DC	Geometry and Algebra II required
Math Models	Successful Completion of Algebra I required	Advanced Quantitative Reasoning	Successful completion of Geometry and Algebra II required
Geometry PreAP Geometry	Successful Completion of Algebra I required	Engineering Math	Successful completion of Algebra II required
Algebra II PreAP Algebra II	Successful Completion of Algebra I required	Strategic Learning for HS Math	Suggested Prerequisite: Algebra I and Geometry
PreCalculus PreAP PreCalculus	Successful Completion of Algebra I, Geometry, and Algebra II required	Algebraic Reasoning	Successful Completion of Algebra I required
Statistics	Successful Completion of Algebra I required	Ind Study in Math/College Algebra DC	Geometry and Algebra II
AP Calculus AB AP Calculus BC	Suggested Prerequisite: PreCalculus	UT OnRamps Computer Science	Successful completion of Algebra II required
AP Statistics	Successful completion of Algebra I required Suggested Prerequisite: Geometry and Algebra II	College Prep A or B for Transition Math	None
UT OnRamps Statistics	Successful completion of Algebra II required		

Comal ISD Science Sequence (House Bill 5)

HB 5: Students that entered 9 th in 2014 – 2015	
<p>3 Credits of Science: 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>Curriculum requirements for the endorsement: A total of four credits in math A total of four credits in science Two additional electives</p>	<p>STEM Endorsement: Biology Chemistry Physics Algebra II</p>

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

Course	Prerequisites by TAC/College Board	Course	Prerequisites by TAC/College Board
Biology PreAP Biology	None	Anatomy & Physiology	Completion of Biology and a second science course. Completion of a course from the Health Science Career Cluster is recommended
Chemistry PreAP Chemistry	One unit of high school science & Algebra I. Completion of or concurrent enrollment in a second year of math is recommended	Aquatic Science	Biology required and suggested completion or concurrent enrollment in Chemistry is recommended
Physics	Completion or concurrent enrollment in Algebra 1 is recommended	Astronomy	Completion of science graduation sequence recommended
AP Physics I	Successful completion of Geometry and concurrent enrollment or completion of Algebra II is recommended by College Board	Environmental Systems	Completion of science graduation sequence recommended
Integrated Physics & Chemistry (IPC)	None	Forensic Science	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
Earth & Space	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.	AP Physics 2	Prerequisite: Successful completion of AP Physics or equivalent course and concurrent enrollment or completion of Pre-Calculus per College Board
Advanced Animal Science	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	AP Physic C: Mechanics (Spring Sem)	Successful completion or concurrent enrollment in Calculus per College Board
Biotechnology I	This course is recommended for students in Grades 11 and 12. Prerequisite: Biology and Chemistry. Recommended prerequisite: Principles of Biosciences	AP Physic C: Electricity & Magnetism (Fall Sem)	Successful completion or concurrent enrollment in Calculus per College Board
Advanced Plant and Soil Science	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	AP Biology	Biology or Pre-AP Biology and Chemistry or Pre-AP Chemistry per College Board
Engineering Design and Problem Solving	Prerequisite: Algebra I and Geometry. Two Science, Technology, Engineering, and Mathematics (STEM) Career Cluster credits recommended.	AP Chemistry	Chemistry or Pre-AP Chemistry and Algebra I is recommended by College Board
Food Science	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	AP Environmental Science	Successful completion of Algebra I, Pre-AP Biology or Biology, and Pre-AP Chemistry or Chemistry per College Board
Medical Microbiology	Prerequisites: Biology and Chemistry. Recommended prerequisite: a course from the Health Science Career Cluster	Dual Credit Anatomy & Physiology	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
Pathophysiology	Prerequisites: Biology and Chemistry. Recommended prerequisite: a course from the Health Science Career Cluster	Dual Credit Chemistry	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
Principal of Technology	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	GeoScience - University of Texas OnRamps Dual Enrollment	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.
Engineering Science	This course is recommended for students in Grades 10-12. Prerequisite: Algebra I and Biology, Chemistry, Integrated Physics and Chemistry (IPC), or Physics		
Scientific Research and Design	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 th grade in 2014-2015	
3 Credits of Social Studies: World Geography or World History United States History from 1877 to the Present United States Government Economics	
A student may earn an Endorsement by successfully completing:	
Statutory Requirements: -curriculum requirements necessary for the chosen endorsement -four credits in mathematics -four credits in science -two additional elective credits	Arts and Humanities Endorsement: -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

CISD Recommended Social Studies Coherent Sequence		
9 th gr	World Geography 1.0	PAP World Geography 1.0
10 th gr	World History 1.0 <i>World Geography Studies Recommended</i>	Social Studies Electives: -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
11 th gr	US History 1.0 <i>World History Studies Recommended</i>	
12 th 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

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.

English III Dual - 1350

ENGL 1301/1302

Credit: 1, Full Year

Prerequisite: English II recommended

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

Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis. Second semester will emphasize effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions.

AP English III

Language and Composition – 1356

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

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

Literature and Composition – 1456

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 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 though 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 though 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

Professional Communication – 8069

Credit: ½, Semester

Prerequisite: None

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

software applications, manipulate computer graphics, and conduct Internet research.

Oral Interpretation I – 1294

Credit: 1, Full Year

Prerequisite: None

This course will enhance communication and presentation skills. Students will critically analyze a variety of literary works, such as monologues, to develop vocal and physical characterization techniques to convey a variety of meanings from the author's intent of the piece to humorous and dramatic creative influences from a student perspective. Students will apply the principles, methods and presentation platforms in school, university and business environments with positive self-esteem and confidence. Students are required to participate in several interscholastic individual event tournaments throughout the year.

Oral Interpretation II, III – 1314, 1324

Credit: 1, Full Year

Prerequisite: Oral Interpretation I

This course will enhance communication and presentation skills. Students will critically analyze a variety of literary works, such as monologues, to develop vocal and physical characterization techniques to convey a variety of meanings from the author's intent of the piece to humorous and dramatic creative influences from a student perspective. Students will apply the principles, methods and presentation platforms in school, university and business environments with positive self-esteem and confidence. Students are required to participate in several interscholastic individual event tournaments throughout the year.

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.

Debate II/III – 1414/1424

Credit: 1, Full Year

Prerequisite: Debate I

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.

Visual Media Analysis & Production – 1284

Credit: ½, Semester

Prerequisite: None

Endorsement: Business and Industry

This course teaches students to view media more critically. Students will interpret various media forms for a variety of purposes. In addition, students will critique and analyze the significance of visual representations and learn to produce media messages that communicate with others. Sample topics include themes in film, fallacies in advertising, and analysis of website content.

Journalism – 1604

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

Prerequisite: Teacher approval

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. For technology credit, see TR540.

Advanced Journalism: Newspaper Production I, II, III – 1644, 1654, 1664

Credit: 1, Full Year

Prerequisite: Teacher approval

Endorsement: Business and Industry

This course is a study of techniques involved in writing news features, sports, editorials, and columns. Students will actively be involved in the writing, editing, advertising, photography, layout and design of the school newspaper. Leadership, dependability and responsibility are exercised in learning to deal with people in a deadline situation. This course will require some after-school work time and may be taken more than one year for credit. For technology credit, see course #5604.

Adv. Broadcast Journalism I, II, III – 1714, 1724, 1734

Credit: 1, Full Year

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. For technology credit, see course #5904.

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.]

College Preparatory for Transition ELAR – 1501

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 communicate with various audiences for various purposes and occasions.

Mathematics

Algebra I – 2158

Credit: 1, Full Year

Prerequisite: Math 8 or Pre-AP Math 7

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

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

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.

AP Statistics – 2506

Credit: 1, Full Year

Prerequisite: Algebra I; Geometry and Algebra II Preferred

Endorsement: STEM

This college level course prepares students to take the AP Statistics Exam for possible college credit. It is equivalent to a one-semester introductory college course in statistics. 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.

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: 11th and 12th 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.

Independent Study in Mathematics – 2170

College Algebra Dual Credit (MATH 1314) – 2270

Credit: ½ Independent Study, ½ College Algebra Dual Credit

Prerequisite: Geometry and Algebra II

St. Philips Prerequisite: INRW 0420 and Math 0320

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. Philips 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.

Computer Science - University of Texas OnRamps Dual**Enrollment - 5401****Credit: 1, Full Year****Grade Level Requirement: 11th and 12th grade only****Prerequisite: Successful completion of 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.

Advanced Quantitative Reasoning –2418**Credit: 1, Full Year****Prerequisite: Geometry & Algebra II****Endorsement: STEM**

Advanced Quantitative Reasoning is a 4th 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.

Strategic Learning for HS Math - 2007**Credit: ½ - 1, Sem. or Full Year****Prerequisite: Committee Approval**

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.

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. 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**

Students will conduct laboratory and field investigations, use scientific practices during investigations, and make informed

Science

Biology – 3118

1/7/19

20

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.

Dual Credit Chemistry – 3315

CHEM 1411/1412

Credit: 1, Full Year

Prerequisite: Successful completion Biology, Chemistry and Physics

St. Philip's Prerequisite: MATH 1314 or 1414 (College Algebra), INRW 0420, MATH 0320

Endorsement: STEM

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

This course covers the fundamental principles of inorganic chemistry: general chemical principles, fundamental laws and theories, including but not limited to modern atomic theory, chemical bonding, states of matter, solutions, stoichiometry, thermochemistry and gas laws. The course content provides a foundation for work in advanced chemistry and related sciences, and as such is aimed at science majors. This course is math-intensive (MI). The prospective student needs to have a good working knowledge of the use of scientific notation, including use of calculator, exponential and logarithmic functions, significant figures, dimensional analysis, and solving simple linear equations. Second semester will focus on kinetics, molecular and ionic equilibria, elementary thermodynamics, electrochemistry, nuclear chemistry, and other topics. CHEM 1412 is equivalent to a combination of CHEM 1312 and CHEM 1112.

Physics – 3418

Credit: 1, Full Year

Prerequisite: Completion or concurrent enrollment in Algebra 1 is recommended

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 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.

AP Physics 2 – 3419

Credit: 1, Full Year

Prerequisite: Successful completion of AP Physics 1 or equivalent course and concurrent enrollment or completion of Pre-Calculus is recommended by College Board

Endorsement: STEM

This college level course prepares students to take the Advanced Placement Physics 2 exam for possible college credit. AP Physics 2 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore these topics: fluids; thermodynamics; electrical force, field, and potential; electric circuits; magnetism and electromagnetic induction; geometric and physical optics; and quantum, atomic, and nuclear physics. 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 students with opportunities to demonstrate the foundational physics principles and apply the science practices.

AP Physics C Mechanics – 3416

Credit: 1, Fall Semester

Prerequisite: Successful completion or concurrent enrollment in Calculus per College Board

Endorsement: STEM

This college level course prepares students to take the Advanced Placement Physics C: Mechanics exam for possible college credit. AP Physics C: Mechanics is equivalent to a one-semester, calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as kinematics; Newton's laws of motion; work, energy and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Introductory differential and integral calculus is used throughout the course.

AP Physics C –Electricity/Magnetism -3417

Credit: 1, Spring Semester

Prerequisite: Successful completion or concurrent enrollment in Calculus per by College Board

Endorsement: STEM

This college level course prepares students to take the Advanced Placement Physics C: Electricity & Magnetism exam for possible college credit. AP Physics C: Electricity and Magnetism is a one-semester, calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Introductory differential and integral calculus is used throughout the course.

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.

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.

St. Phillips Prerequisite: INRW 0420 and MATH 1314 or 1414, Math 0320

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.

University of Texas OnRamps GeoScience– 3518

GEOL 302E

Credit: 1, Full Year

Grade Level Requirement: 11th and 12th grade only

Prerequisite: Three units of science, one which may be taken concurrently that includes Biology and Chemistry. Three units of Math, one of which may be taken concurrently.

Endorsement: STEM

Geo Science 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.

Food Science - 8679

Credit: 1, Full year

Grade Level Requirement: 11-12

Endorsement: Business and Industry

Prerequisite: Three units of science, 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.

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.

Astronomy – 3508

Credit 1, Full Year

Prerequisite: Completion of science graduation sequence recommended

Endorsement: STEM

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

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.*

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.

Advanced Animal Science - 8053

Credit: 1, Full Year

Grade Level Requirement: 11-12

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

Endorsement: *Business and Industry*

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

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

Prerequisite: *World Geography Studies recommended*

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

Prerequisite: *World Geography Studies recommended*

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 stressed.

U.S. History Studies Since 1877 – 4358

Credit: 1, Full Year

Prerequisite: *World History Studies recommended*

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.

U.S. History Studies Dual Credit Since 1877 – 4350

HIST 1301/1302

Credit: 1, Full Year

Prerequisite: *World History Studies recommended*

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

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

Prerequisite: World History Studies recommended

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

Prerequisite: U.S. History recommended

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

Prerequisite: U.S. History recommended

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

Prerequisite: U.S. History recommended

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

Prerequisite: U.S. History recommended

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.

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.

Sociology - 4554

Grade: 10-12

Credit: ½, Semester

Prerequisite: None

Endorsement: Arts and Humanities

Sociology teaches dynamics and models of individual and group relationships by focusing on history and systems of sociology, cultural and social norms, social institutions, and mass communications. Emphasis is placed on methods of group influence on individual behavior and values.

Psychology - 4544

Grade: 10-12

Credit: ½, Semester

Prerequisite: None

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.

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, V

Credit: 1, Full Year

Prerequisite: None

Endorsement: Arts and Humanities

This course provides an introduction to the five C's: *communication* (speaking, listening, reading, and 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
AP Spanish IV – 1846
Spanish IV Dual (SPAN 2311/SPAN 2312) – 1840
AP Spanish V – 1855

German I – 1918
German II – 1928
Pre-AP German II – 1927
German III – 1938
Pre-AP German III – 1937
AP German IV – 1946

French II – 1728
Pre-AP French II – 1727
Pre-AP French III – 1737
AP French IV – 1746

American Sign Language I – 1951
American Sign Language II – 1952
American Sign Language III - 1953

Spanish for Spanish Speakers I, II – 1808, 1888

Credit: 2, Full Year (student will earn one credit per semester class.)

Prerequisite: Successful completion of district matrix

Endorsement: Arts and Humanities

Spanish for Spanish Speakers is a course designed for students who are heritage Spanish speakers but have never studied Spanish in a classroom setting. Students will further explore 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) at the advanced proficiency level. Students will extend learning to include literature in a variety of genres. In addition, students will develop a deeper knowledge base in advanced grammar and vocabulary to allow for more complex and fluent communication, both oral and written, in a real world setting.

Fine Arts

VISUAL ARTS

Art I – 6014

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: 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 II Drawing I – 6024

Credit: 1, Full Year

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

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

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.

Art II Printmaking I – 6074

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.

AP Art History – 6096

Credit: 1, Full Year

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.

AP Studio Art Drawing – 6426

Credit: 1, Full Year

Prerequisite: Art I & Art II recommended

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 2-D art. Students' self-determine appropriate directions in which to develop artistic themes and media.

AP Studio Art Two-Dimensional Design – 6436

Credit: 1, Full Year

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

Endorsement: Arts and Humanities

***Art fees are assessed**

AP 2-D Design addresses two-dimensional design issues. Design involves purposeful decision-making about how to use the elements and principles of art in an integrative way through various techniques and media. 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.

AP Studio Art Three-Dimensional Design – 6446

Credit: 1, Full Year

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

Endorsement: Arts and Humanities

***Art fees are assessed**

This portfolio is intended to address sculptural issues. Design involves purposeful decision-making about using the elements and principles of art in an integrative way. In the 3-D Design portfolio, students are asked to demonstrate their understanding of design principles as they relate to depth and space. The *principles* of design (unity/variety, balance, emphasis, contrast, rhythm, repetition, proportion/scale, figure/ground relationship) can be articulated through the *visual elements* (mass, volume, color/light, form, plane, line, texture). For this portfolio, students are asked to demonstrate mastery of 3-D design through any three-dimensional approach, including, but not limited to, figurative or non-figurative sculpture, architectural models, metal work, ceramics, and three-dimensional fiber arts. This college level course offers a rigorous and accelerated curriculum that **requires** students to submit portfolios for the AP Studio Art Three-Dimensional Design Exam for possible college credit.

Art III Drawing II – 6214

Credit: 1, Full Year

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

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

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

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

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

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, mono-print, and silkscreen printing processes.

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. Students may earn up to one P.E. and/or Fine Arts 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: None**

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**Drill Team – 7524 (Year I only so student receives both FA and PE credit.)****Credit: 1, Full Year****Prerequisite: None**

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 Team I-IV – 6955, 6965, 6975, 6985**Drill Team – 7524 (Year I only so student receives both FA and PE credit.)****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.

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**

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. 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**

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 SVHS 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: 1.5, Full Year****Fall Semester = .5 PE Substitution Credit****Full Year: 1.0 Fine Arts Credit****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.

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.

Instrumental Ensemble I - IV – 6754, 6764, 6774, 6784**Credit: 1, Full Year****Prerequisite: Instrumental Ensemble I-none/ Teacher approval recommended; Instrumental Ensemble II-IV requires completion of previous year course**

This is an ensemble for band students needing remediation of technical skills, or for students that have started band later than other students and need basic instruction. Supply fee may be required.

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.

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, for beginners – 6885

Credit: 1, Full Year

Prerequisite: None

Orchestra I is open to all students who have never played 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.

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 – 6425, 6435, 6445, 6455

Credit: 1, Full Year

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 teachers.

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

Prerequisite: None

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

PhysEd Fit I - 7014 (Aerobic Activities)

Credit: 1.0

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.

Olympic Weight-Lifting - 7024 (Team and Individual Sports)

Credit: 1.0

Prerequisite: None

Olympic Weightlifting is designed for the beginning or novice weight lifter, or for those who have experience lifting but lack proper technique. Students will gain an understanding of the biomechanics, muscles used for a given exercise, and complete technical progressions of all of the Olympic Weightlifting movements and program development. Individual fitness levels are assessed four times throughout the semester and structured workouts are organized giving students the opportunity to earn award shirts and achieve personal best on a given lift. Students will be taught by a teacher certified in weightlifting.

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)

Swimming and Diving

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

Credit: ½-1, Semester-Full Year

Prerequisite: Teacher approval

This course is designed to improve competitive stroke and techniques in competitive swimming, and compete at a varsity level. Previous competitive experience is required and must

complete a tryout before placement in class. Attendance daily and all meets is required.

Track

Year 1 - 7494, Year 2 - 7495, Year 3 - 7496, Year 4 - 7497

Credit: ½-1, Semester-Full Year

Prerequisite: Teacher approval Students receive extensive training in the development of track and field techniques.

Cross Country

Year 1 - 7484, Year 2 - 7485, Year 3 - 7486, Year 4 - 7487

Credit: ½-1, Semester-Full Year

Prerequisite: Teacher approval Students receive extensive training in the development of track and field techniques. The course focuses mainly on the development of long-distance running.

Developmental Tennis - 7424

Credit: ½-1, Semester-Full Year

Prerequisite: Teacher approval

Developmental tennis is designed for ninth grade students who wish to participate in UIL competition and would like to learn and improve their tennis skills. This program is organized to provide students an opportunity to express themselves in competition. The course is an extension of the physical education program.

Tennis

Year 2 - 7434, Year 3 - 7435, Year 4 - 7436

Credit: ½-1, Semester-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.

Golf

Year 1 - 7144, Year 2 - 7145, Year 3 - 7146, Year 4 - 7147

Credit: ½-1, Semester-Full Year

Prerequisite: Teacher approval

Golf is an extension of the Physical Education program and is designed so that an individual can become proficient in the skills and strategy of golf. This course is organized to provide students an opportunity to express themselves in UIL competition.

Wrestling

Year 1 - 7044, Year 2 - 7045, Year 3 - 7046, Year 4 - 7047

Credit: ½-1, Semester-Full Year

Prerequisite: Teacher approval

Earn your Athletic PE Credit by joining the wrestling team. Wrestling, noted as the oldest known sport in the world, is both physically and mentally demanding. If you enjoy a great workout, wrestling may be for you.

Basketball - Boys

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

Credit: ½-1, Semester-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: ½-1, Semester-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: ½-1, Semester-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: ½-1, Semester-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: ½-1, Semester-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 – 9th Grade - 7374

Credit: ½-1, Semester-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.

Basketball - Girls

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

Credit: ½-1, Semester-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: ½-1, Semester-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: ½-1, Semester-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.

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

Navy - SVHS NJROTC I – 9914

Credit: 1, Full Year

Prerequisite: None

Endorsement: Public Services

This course helps students to understand the mission, goals, and opportunities available as members of the NJROTC program. It introduces students to the basic principles of leadership, which combined with the many opportunities for practical experience in the NJROTC program prepare them for leadership roles in school, and upon graduation, in life. Students will also develop an understanding of our nation, our values, traditions, heritage, and respect for our laws. This course enables students to become better informed, responsible citizens. Students will be introduced to the ships and aircraft of the U.S. Navy as well as military drill and discipline. The course begins instruction on exercise and physical fitness. All new students to NJROTC must take this introductory course before continuing on in the program.

NJROTC II – 9924

Credit: 1, Full Year

Prerequisite: NJROTC I

Endorsement: Public Services

Continuing leadership training this second year course teaches Maritime History from Early Western Civilization through the 1990's and beyond. This Naval Science course will study Nautical Sciences such as Maritime Geography, Oceanography, Meteorology, Astronomy, and Physical Science. Naval Science 2 Cadets will be able to conduct an inspection, and provide corrective action to underclassmen. Instruction in Physical Fitness continues.

NJROTC III – 9934

Credit: 1, Full Year

Prerequisite: NJROTC II

Endorsement: Public Services

Leadership training at the third year Cadet level. Platoon Commanders are typically NS3 Cadets. These cadets are in charge of a platoon of 30-45 cadets in a leadership lab. The Naval Science course will consist of Sea Power, National Security, Naval Operations and Support Functions, Military Law, International Law and the Sea, Ship Construction and Damage Control, Shipboard Organization and Watch- standing, Basic Seamanship, Marine Navigation, Rules of the Road and Maneuvering Board, Naval Weapons and Aircraft. These cadets will conduct close order drill sessions and become proficient in leading most physical fitness activities.

NJROTC IV – 9944

Credit: 1, Full Year

Prerequisite: NJROTC III

Endorsement: Public Services

Leadership training at the Battalion/Company level. Project management and peer evaluation are tools that develop these future American leaders. This Naval Science course includes advanced case studies and readings on Policy and Administration, Ethics and truth-telling, Introduction to Moral Theory, Ethics of Self-Interest, Ethics of Natural Law, Ethics of Utilitarianism, Ethics of Respect for Persons, Constitutional Ethics, Loyalty, Decision Making, Ethical and Practical Issues in the Use and Abuse of Alcohol and Drugs, The Ethical Officer. This course wrap-up of the NJROTC Program leaves the student with life lessons that can and will be applied throughout all phases of one's life, military, civilian, or the further pursuit of advanced degrees.

SAT Practice – 1026 (Local Credit)

Credit: 1/2, 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 1 – AP Seminar

The Capstone program is built on the foundation of the two new AP Courses – AP Seminar and AP Research – and is

Locally Developed Courses

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).

Teen Leadership – 9086

Credit: 1/.5, - Full Year/Semester

Prerequisite: Teacher Approval

Teen Leadership is a course in which students develop, professional, and business skills. They learn to develop a healthy self-concept, healthy relationships, and learn to understand the concept of personal responsibility.

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.*

Peer Mediation – 9066

Credit: 1, Full Year

Prerequisite: Teacher approval and training is required.

This course involves peers mediating peers in an effort to resolve conflict. Peer mediators will need to attend training in order to be selected.

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.

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.**

Career and Technical Education

*Any prerequisites listed for CTE courses are recommended prerequisites.

* For endorsement purposes, CTE courses may be selected from any cluster. The final course in the sequence must be selected from the endorsement designated by the student.

AGRICULTURE, FOOD, & 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.

Principles and Elements of Floral Design – 8674

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

Prerequisite: None

Endorsement: Business and Industry, Arts and Humanities

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.

Professional Standards in Agribusiness -- 8054

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

Prerequisite: None

Endorsement: Business and Industry

This course will prepare students for careers in agribusiness systems, students need to attain skills related to leadership development and the workplace, and develop knowledge and skills regarding agricultural career opportunities, and agricultural industry expectations. This course primarily focuses on leadership building, communication, employer-employee relations, and problem solving, as they relate to agribusiness.

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.

Wildlife, Fisheries and Ecology Management - 8074

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

Prerequisite: None

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

Credit: 1/2, Semester **Grade: 10-12**

Prerequisite: None

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 - 8094

Credit: 1/2, Semester

Grade: 10-12

Prerequisite: None

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.

Food Technology and Safety - 8044

Credit: 1/2, Semester

Grade: 10-12

Prerequisite: None

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.

Horticulture Science – 8024

Credit: 1, Full Year

Grade: 10-12

Prerequisite: None

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.

Veterinary Medical Applications - 8043

Credit: 1, Full Year

Grade: 11-12

Prerequisite: Principles of Agriculture Food and Natural Resources and/or Livestock Production

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.

Advanced Animal Science - 8053

Credit: 1, Full Year

Grade Level Requirement: 11-12

Prerequisite: Biology and Chemistry or IPC and Chemistry;

Algebra I and Geometry; and either Small Animal

Management, Equine Science, or Livestock Production.

Endorsement: Business and Industry

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

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 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.

Agricultural Power Systems (Two Credits) – 8249

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

Recommended prerequisite: Principles of Agriculture, Food, and Natural Resources.

Endorsement: Business and Industry

Students shall be awarded two credits for successful completion of this course. 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 related to power, structural, and technical agricultural systems and the workplace; and develop 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.

Practicum in Agriculture, Food and Natural Resources –

8254, 8264 = Credit: 2, Full Year **Grade: 11-12**

8256, 8257 = Credit: 3, Full Year

Prerequisite: Junior standing with at least 10 credits, 16 years old, and student should see teacher prior to registration for materials and supplies.

Endorsement: Business and Industry

This course is designed to provide technical instruction, on-the-job training, and work experience for high school students preparing to enter employment in various occupations. Students in the Practicum course spend one hour in class each scheduled day of block schedule to receive instruction in the occupations for which they are training and two or more consecutive hours each school day at training stations in order to learn the occupations. Training stations include the areas of: leadership development, mechanized agriculture, food and fiber production, value added and food processing, horticulture, agribusiness marketing and management, environmental and natural resources, agriculture/agribusiness/etc. Local businesses in the community are cooperating with the local school district in training students by providing work experience necessary to become valuable employees. Students must work a minimum of fifteen (15) hours per week at their training station. Students must provide their own transportation to and from their workstations.

Project Based Research (Leadership Team) – 8985, 8987, 8988

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

Prerequisite: Teacher Approval

Project-Based Research is a course for students to research a

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

ARCHITECTURE AND CONSTRUCTION CLUSTER

Principles of Architecture – 8694

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

Prerequisites: None

Endorsement: Business and Industry

Principles of Architecture and Construction will give the student an understanding of what's really happening from start to finish. The course will cover how to create, read and interpret technical information in reports and documents such as estimates, permits and work orders by using a variety of hardware and software. Problem solving skills will be used to evaluate and adjust plans and schedules to respond to unexpected events. The student will investigate available opportunities and careers in these fields as well as public relation skill to cover a variety of situations. How to manage materials safely will also be covered.

Interior Design I – 8364

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

Prerequisite: Principles of Architecture

Endorsement: Business and Industry

Do you find yourself watching HGTV? Do you love driving through neighborhoods looking at architecture or landscaping? Are you interested in a career as an Interior Designer, Architect or Real Estate Agent? This course will appeal to those desiring an overview of architectural styles, community planning, future housing trends, as well as basic construction. The content also addresses design principles, furniture styles, lighting, accessories, and appliances. The student will acquire basic knowledge of computer-aided design methods to create interior drawings for presentations.

Interior Design II – 8366

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

Prerequisites: English II, Geometry, and Interior Design I.

Endorsement: Business and Industry

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

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.

Architectural Design I - 8369

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

Prerequisite: Principles of Architecture and Construction

AND teacher recommendation required

Endorsement: Business and Industry

Students gain knowledge and skills specific to those needed to enter a career in architecture and construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, and landscape architecture. Architectural design includes the knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for commercial or residential architectural purposes. In this advanced technical course students will use a Computer Aided Drafting and Design (CADD) system with AutoCAD software to design and produce the drawings associated with residential home building. Students will study the architectural styles, and construction practices related to modern architecture and will become familiar with the graphic standards accepted by the American Institute of Architects (AIA).

Architectural Design II – 8370

Credit: 2; Full Year

Grade: 10-12

Prerequisite: Architectural Design I

Endorsement: Business and Industry

Students gain knowledge and skills specific to those needed to enter a career in architecture and construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, and landscape architecture. Architectural design includes the knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for commercial or residential architectural purposes. In this advanced technical course students will use a Computer Aided Drafting and Design (CADD) system with AutoCAD software to design and produce the drawings associated with residential home building. Students will study the architectural styles, and construction practices related to modern architecture and will become familiar with the graphic standards accepted by the American Institute of Architects (AIA).

Practicum in Architectural Design – 8371

Credit: 2, Full Year

Grade: 12

Prerequisite: Architectural Design II.

Endorsement: Business and Industry

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 Architectural Design is an occupationally specific course designed to provide technical instruction in architectural design. Safety and career opportunities are included in addition to work ethics and architectural design study.

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.

Professional Communication – 8069

Credit: ½, Semester

Prerequisite: None

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

Fashion Design - 8454

Credit: 1, Full Year

Grade: 10-12

Prerequisite: None

Endorsement: Business and Industry

If you have a love for fashion and the textile and apparel industries this is the course for you. In this hands-on laboratory course you will learn the current fashion trends, maintenance and care for apparel, use design elements and principles in garment construction, recycle and redesign apparel, explore career opportunities, develop a professional portfolio and much more. You also will comprise a career portfolio and create a mock window display.

Fashion Design II – 8194

Credit: 1, Full Year

Grade: 11-12

Prerequisite: Fashion Design I

Endorsement: Business and Industry

This hand-on laboratory course emphasizes design and production. The student will research the fashion industry, determine textile characteristics on apparel and fashion, design and construct advanced garments, and continue to develop your career portfolios. If you want to learn what it takes to be a fashion designer and learn marketing and promotion skills this is the class for you.

Commercial Photography I - 8754

Credit: 1, Full Year

Grade: 10-12

Prerequisite: None

Endorsement: Business and Industry

This technical course is designed to provide advanced knowledge and skills acquisition of the contemporary resources, processes and impacts of graphic communications technology. Activities in this course may include graphic design, computer image composition, preparing production, image transfer and finishing experience. Examples of student learning activities are taking and editing photographs, publishing a newsletter, using computers to transmit information, and developing quality control methods. Examples of equipment used are digital cameras, video camcorder, recorders, copiers, computers hardware/software and optical systems.

Commercial Photography II - 8757

Credit: 1, Full Year

Grade: 10-12

Prerequisite: Commercial Photography I

Endorsement: Business and Industry

Careers in commercial photography span all aspects of the industry from setting up a shot to delivering products in a competitive market. In addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an advanced technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs.

Audio Video Production - 8684

Credit: 1, Full Year

Grade: 10-12

Prerequisite: Ability to read technical instructions

Endorsement: Business and Industry

In Audio Video Production we use Mac computers, Adobe Premiere Pro and Adobe After Effects to learn pre-production, editing, and post-production techniques that will allow you to create films in a variety of formats. In addition, we explore the history of film and film production and watch classic movies that every knowledgeable filmmaker needs to be familiar with. This class is for serious filmmakers only because there is a lot to learn.

Audio Video Production II - 8691

Credits: 1, Full year

Grade: 10-12

Prerequisite: Audio Video Production; Ability to read technical instructions; Student MUST see teacher BEFORE registering for this course.

Endorsement: Business and Industry

Did you enjoy Audio Video Production last year? Then why not move on up to Advanced Audio Video where your Adobe Premiere and After Effects skills will be put to the test creating various film projects. Hone your filmmaking skills and create projects you can be truly proud of.

Graphic Design and Illustration I - 8204

Credit: 1, Full Year

Grade: 10-12

Prerequisite: None

Endorsement: Business and Industry

Learn Adobe Illustrator and Photoshop – two programs used widely throughout the art, business, scientific, design and multimedia industries. Discover the difference between vector and raster designs. Work on cool projects that reinforce skills learned in class. Don't pay big bucks for this knowledge years from now! Learn it now while you're still young and it's free!

Graphic Design and Illustration II - 8205

Credit: 1, Full Year

Grade: 10-12

Prerequisite: Graphic Design and Illustration I; Ability to read technical instructions; Student MUST see teacher before registering

Endorsement: Business and Industry

Take your Adobe illustrator and Photoshop skills to the next level. Learn how to create original designs using our laser engraver, dye sublimation and 3D printers. Work on advanced tutorials that increase your knowledge of these software programs used in a variety of industries and businesses.

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.

Advanced Video Game Programming – 8687

Credit: 1, Full Year

Grade: 12

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

Endorsement: Business and Industry

This course is designed for the 3rd year Video Game Design student. The Problems and Solutions course is designed to give students the opportunity to take skills learned in previous years' classes to the next level in a one-hour course. Students will work on self-guided projects that combine skills in Unity and Maya to prepare for life after high school.

BUSINESS MANAGEMENT ADMINISTRATION CLUSTER

Principles of Business Marketing and Finance - 8668

Credit: 1, Full

Grade: 9-12

Prerequisite: None

Endorsement: Business and Industry

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

Business Information Management I - 8643

Credit: 1, Full Year

Grade: 9-12

Prerequisite: None

Endorsement: Business and Industry

Students will apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and create an electronic presentation using appropriate software. Students will implement personal and interpersonal skills to strengthen individual performance in the workplace and in society. Opportunity to earn Microsoft Office Specialist certifications.

Incubator/ Business Management - 8704

Credit: 1, Full Year

Grade: 11-12

Prerequisite: None

Endorsement: Business and Industry

This course is designed to get students excited about becoming true entrepreneurs by giving them the opportunity to create and fully develop their own product or service. Real-world entrepreneurs and business experts serve as coaches and mentors guiding student teams through the process of ideation, market research, and business plan development. Over the course of the year, student teams learn about marketing, accounting, as well as the legal aspects of starting a business. They have access to a network of professionals to further develop their skills (teamwork, problem solving, presentation, communication) for college and career readiness. Pitch Week helps to further fire the entrepreneurial spirit by putting student teams in front of actual investors so they can pitch their innovative idea to win funding and turn their wishful thinking into a reality.

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: MUST see teacher BEFORE registering for this course.

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 Training and student MUST see Teacher Before registering for this course.

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.

Career Preparation I – 8374

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

Prerequisite: Must be 16 years of age, Student Must see the teacher BEFORE registering for this course.

Endorsement: Public Service

Are you ready to make money, leave school early, and get credit while on the job? Career Preparation is an occupationally specific, 2 credit course designed to provide an integrated academic training in the classroom and on the job in a paid position. Classroom instruction will cover occupational skills, critical thinking, creating a professional portfolio, teamwork, communication, ethical and legal responsibilities, time and money management, and entrepreneurship. Employment opportunities include education and childcare training, culinary arts, hospitality, interior design, and fashion. Students must provide their own transportation.

Career Preparation II – 8384

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

Prerequisite: Career Preparation I

Endorsement: Public Service

Career Preparation II is for seniors who have taken Career Preparation I and who want to continue a career path, leave campus early, and make money. Career Preparation is an occupationally specific 2 credit course designed to provide an integrated academic training in the classroom and on the job

in a paid position. Classroom instruction will cover a more in-depth student of the occupational training; assist in instruction and mentoring for first year students. Employment opportunities include education and childcare training, culinary arts, hospitality, interior design, and fashion. Student must provide their own transportation.

Career Prep I/Extended Career Preparation – 8389

Credit: 3, Full Year **Grade: 11-12**

Prerequisite: Successful completion of one or more advanced career and technical education courses that are part of a coherent sequence of courses in a career cluster related to the field in which the student will be employed.

Corequisite: Career Preparation I or Career Preparation II.

Endorsement: Public Service

Students shall be awarded three credits for successful completion of this course. A student may repeat this course once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills. Extended Career Preparation provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

Career Prep II/Extended Career Preparation – 8387

Credit: 3, Full Year **Grade: 11-12**

Prerequisite: Successful completion of one or more advanced career and technical education courses that are part of a coherent sequence of courses in a career cluster related to the field in which the student will be employed.

Co-requisite: Career Preparation I or Career Preparation II.

Endorsement: Public Service

Students shall be awarded three credits for successful completion of this course. A student may repeat this course once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills. Extended Career Preparation provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

FINANCE CLUSTER

Principles of Business Marketing and Finance - 8668

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

Prerequisite: None

Endorsement: Business and Industry

Students will gain knowledge and skills in economies and private enterprise systems, the impact of global business, the marketing of goods and services, advertising, and product pricing. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in business, marketing, and finance.

Banking and Financial Services - 8104

Credit: ½, Semester **Grade: 10-12**

Prerequisite: None

Endorsement: Business and Industry

Students will develop knowledge and skills in the economic, financial, technological, international, social, and ethical aspects of banking to become competent consumers,

employees, and entrepreneurs. This course will equip students with the skills necessary to make good financial choices in order to achieve desired career and lifestyles.

Accounting I - 8614

Credit: 1, Full Year

Grade: 10-12

Prerequisite: None

Endorsement: Business and Industry

Students will investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will engage in the process of recording, classifying, summarizing, analyzing, communicating and interpreting financial information.

Accounting II - 8624

Credit: 1, Full Year

Grade: 11-12

Prerequisite: Accounting I

Endorsement: Business and Industry

Students will continue the investigation of the field of accounting, including economic, financial, technological, international, social, legal, and ethical factors impacts on accounting. Students will engage in various managerial, financial, and operational accounting activities and interpret financial information for use in management decision making.

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: Principles of Health Science Technology

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.

World Health Research - 8413

Credit 1, Full Year

Grade: 11-12

Prerequisite: Biology and Chemistry. Principles of Health

Endorsement: Public Services

Science & Medical Terminology recommended. Student should see instructor prior to registration for course information and questions. The World Health Research course is designed to examine major world health problems and emerging technologies as solutions to these medical concerns. It is designed to improve students' understanding of the cultural, infrastructural, political, educational, economical, and technological constraints. Students will partner with organizations such as the World Health Organization, and work individually to conduct actual health related research that will be presented at the end of the academic year.

Practicum in Health Science (CPCT) - 8444

Credit 2, Full Year

Grades: 11-12

Prerequisite: Principles of Health Science, and Health Science

Endorsement: Public Services

Theory or Health Science Theory with clinical rotation, & Biology, Anatomy & Physiology, and Medical Terminology recommended. Students should see instructor prior to registration for course information and questions. This course is designed to develop knowledge and skills related to patient care in the health care field. Students will complete the Certified Patient Care Technician course and will be able to sit for the state exam for certification. Students will be required to purchase scrubs and shoes for the clinical uniform. Students must have a social security number. Grooming conditions apply. This course is designed for mature students as real life medical conditions apply and students must behave professionally at all times. Students must be at least 16 years of age to be in the CPCT course and students must provide their own transportation to clinical sites as necessary.

Health Science Theory/Health Science Clinical (EMT) - 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 have the opportunity to sit for the National Registry of EMTs Exam upon successful completion of the course. 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. Students must have a social security number and be able to purchase specific clothing to attend clinical sites. This course is designed for a mature student as real life medical condition apply and students must behave professionally at all times. Students must provide their own transportation to clinical sites as necessary.

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 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.

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.

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.

Travel and Tourism Management - 9124

Credit: 1, Full Year

Grade: 10-12

Prerequisite: Principles of Hospitality and Tourism

Endorsement: Business and Industry

Come fly with us as we discover the world of travel and tourism! In this class you will investigate the airlines, international travel, cruising, and travel by rail, lodging, recreation, amusements, attractions, and resorts. Develop your communication skills, learn technology related to the travel industry, and create your own travel brochure. Learn what qualifications are required for employment and explore the many opportunities available in the travel and tourism industry.

Introduction to Culinary Arts - 8940

Credit: 1, Full Year

Grade: 10-12

Prerequisite: Principles of Hospitality and Tourism or Principles of Human Services

Endorsement: Business and Industry

Students shall be awarded one credit for successful completion of this course. Introduction to Culinary Arts will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. Introduction to Culinary Arts will provide insight into food production skills, various levels of industry management, and hospitality skills. This is an entry level course for students interested in pursuing a career in the food service industry. This course is offered as a classroom and laboratory-based course.

Culinary Arts – 8945

Credits: 2

Grade: 11-12

Prerequisite: Intro to Culinary Arts; Student MUST see teacher BEFORE registering for this course; this is a double-blocked course

Endorsement: Business and Industry

If you have a passion for food and a craving to learn, you've come to the right place. The Dual Credit Culinary Arts is the course for you. Do you see yourself as a chef, restaurateur, food writer, or even foodservice manager or research and development professional? Or perhaps you picture yourself as a baker, pastry chef, cake decorator, or bakery café owner. This course provides **work-based** training designed to develop knowledge and skills for employment in the area of food production, management, and services. Instruction includes operation and management of foodservice establishments, marketing strategies, quantity food production skills, food presentation and service techniques, and technology applications in the foodservice industry. Each student is provided the opportunity to take the National Restaurant Association ServSafe Manager Certification Exam.

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.

Practicum in Culinary Arts – 8954

Credit: 2, Full Year

Grade: 11-12

Prerequisite: Culinary Arts

Endorsement: Business and Industry

Practicum in Culinary Arts is a unique practicum that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Culinary Arts integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace.

Hotel Management - 8461

Credit: 1, Full Year

Grades 10-12.

Prerequisite: Principles of Hospitality and Tourism.

Endorsement: Business and Industry

Hotel Management focuses on the knowledge and skills needed to pursue staff and management positions available in the hotel industry. This in-depth study of the lodging industry includes departments within a hotel such as front desk, food and beverage, housekeeping, maintenance, human resources, and accounting. This course will focus on, but not be limited to, professional communication, leadership, management, human resources, technology, and accounting.

Hospitality Services – 8465

Credit: 2, Full Year

Grades 11-12

Prerequisites: Principles of Hospitality and Tourism, Hotel Management, and Travel and Tourism Management.

Endorsement: Business and Industry

Students shall be awarded two credits for successful completion of this course. Hospitality Services provides students with the academic and technical preparation to pursue high demand and high-skill careers in hospitality related industries. The knowledge and skills are acquired within a sequential, standards-based program that integrates hands-on and project-based instruction. Standards included in the Hospitality Services course are designed to prepare students for nationally recognized industry certifications, postsecondary education, and entry-level careers. In addition, Hospitality Services is designed so that performance standards meet employer expectations, enhancing the employability of students. Instruction may be delivered through laboratory training or through internships, mentoring, or job shadowing.

Practicum in Hospitality Services – 8466

Credit: 2, Full Year

Grade: 11-12

Prerequisite: Hospitality Services

Endorsement: Business and Industry

Practicum in Hospitality Services is a unique practicum experience to provide opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Hospitality Services integrates academic and career and technical education; provides more

interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace. Students are taught employability skills, including job-specific skills applicable to their training plan, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Practicum in Hospitality Services is relevant and rigorous, supports student attainment of academic and technical standards, and effectively prepares students for college and career success.

Career Preparation I – 8374

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

Prerequisite: Must be 16 years of age, Student Must see the teacher BEFORE registering for this course.

Endorsement: Public Service

Are you ready to make money, leave school early, and get credit while on the job? Career Preparation is an occupationally specific, 2 credit course designed to provide an integrated academic training in the classroom and on the job in a paid position. Classroom instruction will cover occupational skills, critical thinking, creating a professional portfolio, teamwork, communication, ethical and legal responsibilities, time and money management, and entrepreneurship. Employment opportunities include education and childcare training, culinary arts, hospitality, interior design, and fashion. Students must provide their own transportation.

Career Preparation II – 8384

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

Prerequisite: Career Preparation I

Endorsement: Public Service

Career Preparation II is for seniors who have taken Career Preparation I and who want to continue a career path, leave campus early, and make money. Career Preparation is an occupationally specific 2 credit course designed to provide an integrated academic training in the classroom and on the job in a paid position. Classroom instruction will cover a more in-depth student of the occupational training; assist in instruction and mentoring for first year students. Employment opportunities include education and childcare training, culinary arts, hospitality, interior design, and fashion. Student must provide their own transportation.

Career Prep I/Extended Career Preparation – 8389

Credit: 3, Full Year **Grade: 11-12**

Prerequisite: Successful completion of one or more advanced career and technical education courses that are part of a coherent sequence of courses in a career cluster related to the field in which the student will be employed.

Corequisite: Career Preparation I or Career Preparation II.

Endorsement: Public Service

Students shall be awarded three credits for successful completion of this course. A student may repeat this course once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills. Extended Career Preparation provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

Career Prep II/Extended Career Preparation – 8387

Credit: 3, Full Year **Grade: 11-12**

Prerequisite: Successful completion of one or more advanced career and technical education courses that are part of a

coherent sequence of courses in a career cluster related to the field in which the student will be employed.

Corequisite: Career Preparation I or Career Preparation II.

Endorsement: Public Service

Students shall be awarded three credits for successful completion of this course. A student may repeat this course once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills. Extended Career Preparation provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

HUMAN SERVICES CLUSTER

Principles of Human Services – 8120

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

Prerequisite: None

Endorsement: Public Service

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.

Lifetime Nutrition and Wellness - 8224

Credit: 1/2, Semester **Grade: 10-12**

Prerequisite: None

Endorsement: Public Services

Plan and prepare healthy meals. Learn to live a healthy lifestyle. This technical laboratory course concentrates on nutrition and food management skills promoting health and wellness. Instruction addresses menu planning for nutritionally balanced diets; strategies for managing diet related diseases; weight management and fitness; safety and sanitation in preparing and storing food; consumer management and fitness; consumer food buying strategies and budgeting and utilizing food labels. Students will investigate careers relating to nutrition and foods. The fully equipped lab facility allows students to demonstrate knowledge of food preparation management principles through laboratory experiences. Earn a ServSafe Starters Employee Guide Certificate.

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.

Family and Community Services - 9046

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

Prerequisite: Student MUST see teacher BEFORE registering for this course

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

Project-Based Research (FACS II) - 8990**Credit: 1, Full Year****Grade: 11-12**

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

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.

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.

Information Technology and Security Academy - 9065**Credit: 3, Full Year****Grade: 10-12**

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**

Prerequisites: Principles of Law, Public Safety, Corrections and 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: 11-12****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.

Federal Law Enforcement and Protective Services – 8920**Credit: 1, Full Year****Grade: 10-12****Prerequisite: Principles of Law, Public Safety, Corrections, and Security.**

Students shall be awarded one credit for successful completion of this course. Federal Law Enforcement and Protective Services provides the knowledge and skills necessary to prepare for certification in security services for federal law enforcement and protective services. The course provides an overview of security elements and types of organizations with a focus on security measures used to protect lives, property, and proprietary information, to ensure computer security, to provide information assurance, and to prevent cybercrime.

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.

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

Advanced Manufacturing and Technology Academy - 9035/9135

Credit: 3, Full Year **Grade: 11-12**

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

MARKETING CLUSTER

Principles of Business, Marketing and Finance - 8668

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

Prerequisite: None

Endorsement: Business and Industry

Students will gain knowledge and skills in economies and private enterprise systems, the impact of global business, the marketing of goods and services, advertising, and product pricing. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in business, marketing, and finance.

Sports and Entertainment Marketing – 8449

Credit: .5, Semester **Grade: 10-12**

Prerequisite: Principles of Business, Marketing and Finance

Endorsement: Business and Industry

This course will provide students with a thorough understanding of the marketing concepts and theories that apply to sports and sporting events and entertainment. The areas this course will cover include basic marketing, target marketing and segmentation, sponsorship, event marketing, promotions, sponsorship proposals, and implementation of sports and entertainment marketing plans. This course will also provide students an opportunity to develop promotional plans, sponsorship proposals, endorsement contracts, sports and entertainment marketing plans, and evaluation and management techniques.

Advertising – 8459

Credit: ½, Semester **Grade: 10-12**

Prerequisite: Principles of Business, Marketing, and Finance.

Endorsement: Business and Industry

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

Entrepreneurship – 8666

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

Endorsement: Business and Industry

Throughout this course, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students understand the capital required, the return on investment desired, and the potential for profit.

Practicum in Marketing (SVHS School Store) – 8452

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

Prerequisite: Principles of Business, Marketing, and Finance.

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

STEM CLUSTER

Principles of Applied Engineering – 8774

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

Prerequisite: None

Endorsement: STEM

Principles of Applied Engineering 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 Presentation II – 8935

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

Prerequisites: Algebra I and Geometry.

Recommended prerequisite: Principles of Applied Engineering or Engineering and Design and Presentation I.

Endorsement: STEM

Students shall be awarded two credits for successful completion of this course. Engineering Design and Presentation II is a continuation of knowledge and skills learned in Engineering Design and Presentation I. Students enrolled in this course will demonstrate knowledge and skills of the design process as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students will transfer advanced academic skills to component designs. Emphasis will be placed on using skills from ideation through prototyping.

Practicum in Science, Technology, Engineering, and Mathematics – 8938

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

Prerequisites: Algebra I and Geometry. Recommended prerequisites: two Science, Technology, Engineering, and Mathematics (STEM) Career Cluster credits.

The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the STEM Career Cluster. Students shall be awarded two credits for successful completion of this course. A student may repeat this course once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills. Practicum in STEM is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

TRANSPORTATION, DISTRIBUTION, LOGISTICS CLUSTER

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.

Automotive Technology – 8504

Credit: 2, Full Year **Grade: 9-12**

Prerequisites: All students must attend class at CHS.

Bus transportation from SVHS will be provided.

Endorsement: Business and Industry

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: 11-12**

Prerequisites: All students must attend classes at CHS. Bus transportation from SVHS 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.

Practicum in Transportation Systems – 8514

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

Prerequisites: Fee Skills USA/ personal transportation required to work site/Application and Teacher approval

Endorsement: Business and Industry
Students will be assigned to a Dealership or Approved Independent Repair. This is an on the job training program for high school students who are interested in a career related to the Automotive field. Students will work in a paid or unpaid position during the duration of the program. Students must provide their own transportation. The classroom instruction reinforces self-awareness, occupational skills, technology skills, effective time management and an emphasis on skills necessary to be successful in the automotive field. Students will complete AYES work journals and a portfolio. Students are required to work a minimum of 15 hours a week Monday through Friday, be 16 years of age and work in an approved training site.