Somerset High School Course Catalog 2019-2020

Content

SOMERSET HIGH SCHOOL ADMINISTRATION

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Nondiscrimination Act

In accordance with Title VI, Civil Rights Act of 1964, Title IX, Education Amendment of 1972, Section 504, Rehabilitation Act of 1973 and Title II of the Americans with Disabilities Act of 1992, the Somerset Independent School District does not discriminate on the basis of ethnicity, religion, military status, color, national origin, age, sex, disability or any other basis prohibited by law.

If you have questions regarding information contained in this catalog, contact your student's counselor at 1.866.852.9861.

Ley de no discriminación

De acuerdo con el titulo VI de la Ley de Derechos Civiles de ano 1964, el Titulo IX de la Reforma Educativa del ano 1972, el Articulo 504 de la Ley de Rehabilitación del ano 1973 y el Titulo II de la Ley de los Estadounidenses con Discapacidades del ano 1972, el Distrito Escolar Independiente de Somerset no discrimina por motivos de raza, religión, estado militar, color nacionalidad, edad, sexo, discapacidad ni por ningún otro motivo prohibido por la ley.

Si tiene preguntas sobre el contenido de este documento, llame al numero de los consejeros en la escuela de su alumno 1.866.852.9861.

Using the Course Catalog

Somerset ISD offers a variety of courses that will prepare students for college work and/or the workforce. The course catalog is designed to give both students and parents an overview of the courses offered at Somerset High School. Each course entry includes name of course, description, recommended grade level/levels, prerequisites, the graduation requirement it fulfills, number of semesters it meets, and credit value. Information to help in the decision making process for next school year is also provided as well as information that is important for student success and high school completion.

Courses listed in the 2019-2020 Somerset ISD Course Catalog are preliminary offerings. Courses listed may or may not actually be offered during the 2019-2020 school year. Course offerings are subject to change due to student selection, availability of staff and facilities, state approval of innovative courses, and changes in state course requirements.

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*A Somerset ISD student entering grade 9 during the 2014-2015 school year, and thereafter, **shall enroll** in the courses necessary to complete the curriculum requirements for the **Foundation Graduation Plan with Endorsements** or the advanced programing leading to the **Distinguished Level of Achievement**. Somerset ISD graduation requirements are determined by the Somerset Independent School District Board of Trustees.*

SOMERSET ISD FOUNDATION GRADUATION PLAN WITH ENDORSEMENTS AND DISTINGUISHED LEVEL OF ACHIEVEMENT

Endorsement Plan	Arts & Humanities	Business & Industry	Multi-Disciplinary	Public Services	S.T.E.M. (Science Technology Engineering Mathematics)
ENGLISH	English I (1) English 2 (1) English 3 (1) Advanced English (1)	English I (1) English 2 (1) English 3 (1) Advanced English (1)	English I (1) English 2 (1) English 3 (1) English 4 (1)	English I (1) English 2 (1) English 3 (1) Advanced English (1)	English I (1) English 2 (1) English 3 (1) Advanced English (1)
MATHEMATICS	Algebra I (1) Geometry (1) Algebra 2 (1) 4th Math (1)	Algebra I (1) Geometry (1) Algebra 2 (1) 4th Math (1)	Algebra I (1) Geometry (1) Algebra 2 (1) 4th Math (1)	Algebra I (1) Geometry (1) Algebra 2 (1) 4th Math (1)	Algebra I (1) Geometry (1) Algebra 2 (1) 4th Math (1)
SCIENCE	Biology (1) Chemistry (1) Advanced Science (1) 4th Science (1)	Biology (1) Chemistry (1) Advanced Science (1) 4th Science (1)	Biology (1) Chemistry (1) Advanced Science (1) 4th Science (1)	Biology (1) Chemistry (1) Advanced Science (1) 4th Science (1)	Biology (1) Chemistry (1) Physics (1) 4th Science (1)
SOCIAL STUDIES	W Geography (1) Or W. History (1) U.S. History (1) Government (.5) Economics (.5)	W Geography (1) Or W. History (1) U.S. History (1) Government (.5) Economics (.5)	W Geography (1) Or W. History (1) U.S. History (1) Government (.5) Economics (.5)	W Geography (1) Or W. History (1) U.S. History (1) Government (.5) Economics (.5)	W Geography (1) Or W. History (1) U.S. History (1) Government (.5) Economics (.5)
LOTE Language Other Than English (Same Language)	LOTE I (1) LOTE 2 (1)	LOTE I (1) LOTE 2 (1)	LOTE I (1) LOTE 2 (1)	LOTE I (1) LOTE 2 (1)	LOTE I (1) LOTE 2 (1)
Fine Art	Fine Art (1)	Fine Art (1)	Fine Art (1)	Fine Art (1)	Fine Art (1)
PE	PE (1)	PE (1)	PE (1)	PE (1)	PE (1)
Electives (Course Pathways)	Electives (6) Including Coherent Sequence of Courses leading to an Arts & Humanities Endorsement	Electives (6) Including Coherent Sequence of Courses leading to Business & Industry Endorsement	Electives (6) Including Coherent Sequence of Courses leading to Multi-Disciplinary Endorsement	Electives (6) Including Coherent Sequence of Courses leading to a Public Services Endorsement	Electives (6) Including Coherent Sequence of Courses leading to a S.T.E.M. Endorsement
Total Credits	26 Credits	26 Credits	26 Credits	26 Credits	26 Credits

NOTE: The Somerset ISD Foundation Graduation Plan with Endorsements and Distinguished Level of Achievement are the recommended graduation plans available to 2014-2015 incoming freshman and beyond. Upon entering the 9th grade, every Somerset ISD student must select an Academic Endorsement course of study. Endorsements may be changed during the course of the student's high school career and students may graduate with multiple endorsements. Students have the opportunity to earn a Performance Acknowledgement Certifications. See your high school guidance counselor for more information.

Important Information

Award of Credit

- One semester courses: 0.5 credit shall be awarded if a student earns a grade of 70 or higher and attends each class 90% of the time.
- Two semester courses: 1.0 credit shall be awarded if a students earns a final grade of 70 or higher and attends each class 90% of the time.
- Credits earned in locally developed classes do not count towards graduation.

Grade Level Promotion

Students must receive the appropriate number of credits to be promoted to the next grade level

9th Grade	Freshman	0 to 4.5 Credits
10th Grade	Sophomore	5.0 to 10.5 Credits
11th Grade	Junior	11.0 to 17.5 Credits
12th Grade	Senior	18+ Credits
Graduate	26 Credits (includes ALL required courses).	

Graduation

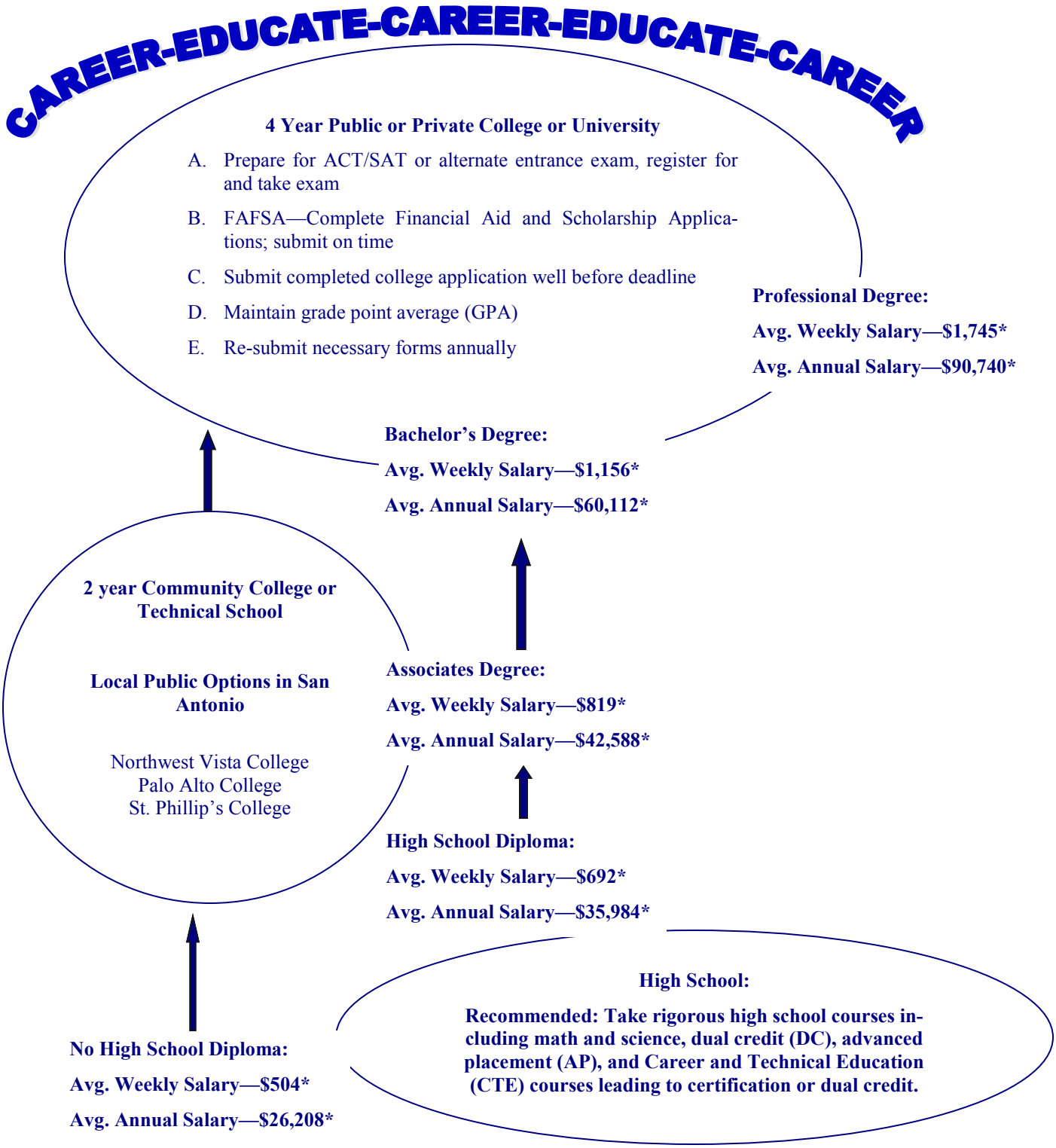
In order to participate in the graduation ceremony, students must meet all graduation requirements including attendance, credits, and meeting the requirements on all appropriate state assessments.

College Ready!

High school students are able to earn college credit by enrolling in high school courses Advanced Placement (AP) and Dual Credit through Tech Prep agreements. Students can also earn college credits through participating in Alamo Academies. To obtain more information, students should meet with their counselors.

College Readiness

High School is considered the first phase in a life-time career of learning. During the high school years, students and their families are encouraged to discuss their post-secondary (after high school) options with their high school guidance counselor to develop a six year plan to attain their education and career goals after graduation.



*Bureau of Labor Statistics, Current Population Survey, 2016, TG Adventures in Education www.AIE.org/dollars

Advanced Placement (AP)

Students are expected to demonstrate analytic and writing skills of first year students in a strong college program. Advanced Placement courses allow students to take college level academic learning through a rigorous curriculum as established by the College Board. AP courses make substantial academic demands on students. Considerable outside reading is required and may include summer reading. Advanced Measure credit is also granted if the AP exam score is 3 or higher. Advanced Placement courses are weighted. Students may choose no more than 4 AP courses per school year.

Pre-AP

Pre-AP classes are designed to prepare students for enrollment in regular AP classes that are offered at the 11th and 12th grade level. Most Pre-AP classes are offered to 9th and 10th grade students. Students are expected to do considerable outside reading and must complete other advanced assignments. (Pre-AP courses are weighted).

Schedule changes for students enrolled in year long AP and Pre-AP courses will only be made at the end of the first nine weeks and the end of the semester.

How do you know if you should take a Pre-AP or AP Course?

- A Pre-AP/AP student should be able to learn independently as well as through teacher instruction.
- Success in these courses requires critical thinking and independent study skills.
- A Pre-AP/AP student must be willing to spend several hours outside of class completing research, projects and substantial reading and have passed prior year EOC exams.
- Teacher Recommendation Required

Dual Credit

Dual Credit is an agreement between a school district and a college in which students receive both high school credit and college hours for the successful completion of a particular course. The course may be taught in either the high school or college setting. Colleges other than the one with whom the agreement was signed may accept the course hours.

For students wanting to participate in the Dual Credit Program, they must go through the application process with the Alamo Colleges. They must submit an online application, two online modules, and earn a qualifying score on the TSI Assessment. Dual Credit courses are weighted.

Weighted Courses

Please refer to the 2019-2020 Somerset Student Handbook for more information.

GO Center

The high school has additional resources to be found in the GO Center in D Hall. Students can learn about preparing for college, can get help with application process, and can receive financial aid assistance.

ADVANCED PLACEMENT AGREEMENT

AP/PreAP Course Commitment

Somerset ISD recognizes the value of student participation in advanced academic coursework and encourages students to graduate from high school with at least one advanced academic course credit such as Advanced period. Participation in advanced academic courses is a foundation of college readiness. Students who participate are more likely to complete a bachelor's degree in college and typically have higher college GPAs (Hargrove, Godin and Dodd, 2007: Dodd and Keng, 2008). The intent of this commitment is to maximize each student's potential for success in AP and PreAP Courses.

Choosing Advanced Academics

PreAP and AP courses are designed to challenge students beyond grade-level academic courses and prepare them for success in future advanced coursework. Students may require additional encouragement and support from both family and campus to be successful in advanced academics.

Students who opt to participate in AP or PreAP must successfully complete prerequisite coursework and demonstrate mastery on course-related state mandated performance assessments prior to enrollment in the course.

Campus Commitment

The campus commits to advanced academics by communicating the value of advanced coursework, recruiting students with potential for success, encouraging student commitment, and supporting advanced academics instruction.

Student Commitment

The student commits to advanced academics by recognizing the long term benefits of participation and seeking assistance when needed.

As a student enrolled in an AP or PreAP course:

- I understand that advanced academic courses may seem challenging at first and initial grades may not reflect later grades in the course.
- In the event that I encounter difficulties with the course content, I will conference with my teacher about my progress and attend recommended tutorials.
- I understand that course changes will be contingent on space availability, extenuating circumstances, the teacher's appraisal of my potential for success in the course, and the timing of the request.
- I understand that successful completion of an AP exam can yield college credit.
- I understand that participation in advanced coursework prepares me well for college, increases my chances of finishing a college degree in four years and earning a higher college GPA.

Parent Commitment

The parent commits to advanced academics by supporting student learning in the advanced academic course; by supporting teacher efforts to provide rigorous, quality instruction; and by valuing the learning that occurs in the advanced academic course. As a parent of a student enrolled in an AP or PreAP course:

- I will encourage my child to be prepared for class every day.
- I understand that advanced academic courses may seem challenging at first and initial grades may not reflect later grades in the course.
- If my child encounters difficulties with the course content, I will expect my child to conference with the teacher and attend recommended tutorials.
- Prior to initiating a petition for my child to exit the course, I will contact the teacher for his/her input.
- I understand that schedule changes will be contingent on space availability, extenuating circumstances, and the teacher's appraisal of my child's potential for success in the course, and the timing of the request..

Teacher Commitment

The teacher commits to advanced academics by encouraging student participation and success, planning for student learning, providing rigorous, quality instructions, and offering assistance for struggling students. As a teacher of an AP or PreAP course:
I will teach the course following the curriculum developed by Somerset ISD and as authorized by College Board (AP Courses).
I will provide instruction that prepares students for the next level advanced academic course.
I will assign work that is meaningful and relevant to the required learning goals.
I know that students are enrolled in many other courses and that workload for this course must not be unreasonably time consuming.
I will provide appropriate tutorial opportunities for students who have difficulty with course content.

PSAT/SAT

College Board assessments—including PSAT 8/9, PSAT/NMSQT, and the SAT—provide benchmarks and consistent feedback for measuring student progress over time, allowing teachers to accelerate students who are either ahead or behind. In addition to measuring readiness, College Board assessments connect students to opportunities, including scholarships, personalized practice, challenging Advanced Placement course work, and fee waivers.

The redesigned SAT, PSAT/NMSQT, and the PSAT 8/9 can be used to expand access to AP classrooms and grow AP programs. Both educators and students can see if students' test scores indicate that they are likely to succeed in specific AP Courses. College Board research shows that students who score a 3 or higher on an AP Exam typically experience greater academic success in college and are more likely to earn a college degree on time than non-AP students.

The College Connections Program

College is the recommended option for ALL Somerset Independent School District high school graduates. Therefore, Somerset ISD partners with Palo Alto College to offer all seniors the College Connections Program. Through this collaboration, seniors are guided through four steps of the college process. First, representatives provide an orientation to all seniors on the program. Then, ALL seniors complete an online application to Palo Alto College or another Alamo College. This application can then be copied to other two and four year colleges and universities. The third step is the completion of the Alamo Enroll– online modules that students must complete. Next, ALL seniors take the TSI Assessment, which can be used for placement at the Alamo Colleges as well as four year universities. Lastly, if seniors decide to attend Palo Alto College or any of the Alamo Colleges (Northwest Vista, San Antonio College, St. Phillips College, or Northeast Lakeview), an admission representative from each school will visit the high school in May.

College Connections Program

- Orientation
- Application
- Alamo Enroll– Online Modules
- Testing
- Advising and Registration/ New Student Orientation

General College Application Requirements

The easiest way to think about the college application process is to think **F.A.S.T.**

F– Fee or Fee Waiver

A– Application submitted online

S– Scores: Students must submit SAT, ACT, or TSI scores to colleges they are applying to

T– Transcript: Students must submit transcript to colleges; request transcript through the GO Center or the counseling department

It is important to check deadlines and specific requirements for each college or university. Some schools also require an essay(s) and Recommendation Letters. For other schools, essays and recommendation letters are strongly encouraged, though not required.

College Information

Top 10% Rule

Students who (must graduate with distinguished level of achievement) are in the top 10% of their graduating class and graduate under the Foundations High School Program AND earn an endorsement, the Recommended High School Program (class of 2017 only), or the Distinguished Achievement Program are eligible for automatic admission to **some** public universities in Texas. To be eligible for the top 10% automatic admission, a student must:

- Graduate in the top 10% 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.
- Submit an application to the Texas public university for admission before the institutions' application deadline.
- Check with the specific university to verify that application deadline.
- Students admitted through this route are still be required to provide SAT or ACT scores.

- Students must also take the TSI Assessment, unless exempted by SAT or ACT scores. SAT score requirement is a score of 480– on the Evidence-Based Reading and Writing shall be exempt for both reading and writing. A minimum score of 530 on the mathematics section. ACT score requirement is a composite of 23+ with 19+ in both the English and Math sections.

Testing Information

PSAT/NMSQT

The Preliminary Scholastic Aptitude Test and National Merit Scholarship Qualifying Test (PSAT/NMQST), is a timed test that measures verbal reasoning skills, critical reading skills, math program solving skills and writing skills. SHS students take the PSAT/NMSQT during their 8th grade and junior years. To compete for the National Merit Scholar Scholarships, students must take the test during their junior year. Taking the PSAT gives students an accurate idea of what they may score on the SAT at that time.

SAT

The SAT is a three-four hour test which measures how well students analyze and solve problems. It also measures the skills learned in high school that are needed in college. It allows students to demonstrate not only the specific subject material that they have learned in school, but also their ability to think critically. The SAT consists of three sections: critical reading, math and writing. Students on free or reduced price are eligible for two waivers which can be used during the junior and/or senior year. The SAT is offered seven times a year. Somerset ISD will offer SAT school day testing during the junior year. Somerset ISD offers the SAT School day at no cost during the students junior year. Any additional fees incurred are the responsibility of the student/family.

SAT Subject Tests

The SAT Subject Tests are required by some colleges as a second step in testing and are generally used not for admission but for placement in a proper level. Check with your college to determine whether an SAT Subject Test is required. An SAT Subject Test measures specific knowledge from a specific course taken in high school. Register for the SAT Subject Test at least six weeks before the exam through www.collegeboard.com or come by the Go Center to pick up a registration packet. The SAT subject tests are administered six times per year (the March administration only offers SAT Reasoning).

ACT

The ACT is designed to assess the student's general education development and ability to complete college level work. Many colleges use the ACT as one indicator among others for college admissions. The ACT is curriculum based and tests four skills areas: English, Mathematics, Reading, and Science. The highest score that can be attained is a 36. Students on free or reduced price are eligible for two waivers which can be used during the junior and/or senior year. The ACT is offered six times a year. ***Please refer to the following website for testing information: act.org.***

Credit by Exam - Exam for Acceleration or Exam to Restore Credit

Any student may receive credit in a course by demonstrating proficiency on an appropriate examination. Request for this examination should be made to the student's counselor for approval by administration. This exam is administered at no cost to the student. Test dates are set by the Board of Trustees and offered ***a minimum*** of two times per year. A grade of 80% or above is required for students who have had no prior instruction in the course (Exam for Acceleration). A grade of 70% or above is required for students who have had prior instruction in a course but have not received credit (Exam to Restore Credit).

ASVAB

Armed Services Vocational Aptitude Battery is one of the best aptitude test available. This test is recommended for any student, but specifically for those considering any branch of the military as a possible career. Taking the test does not commit you to joining the military services. It offers students great information about their abilities and skills. The high school organizes two administrations– one in the fall and one in the spring.

TSI Assessment

The TSI Assessment is the statewide college readiness indicator exam. Students may be exempt with SAT or ACT scores. Before taking the TSI, students must complete a pre-assessment activity. Completing the test prep module through the Alamo Colleges satisfies the pre-assessment requirement. Students interested in dual credit must take this assessment, as well as seniors before enrolling in college.

Testing Information

Revised December 13, 2018	2019–2020 STUDENT ASSESSMENT TESTING CALENDAR Dates Subject to change	
Detailed information regarding the scheduling and administration of specific assessments can be found on the Coordinator Manual Resources webpage at http://tea.texas.gov/student.assessment/manuals/dccm/.		
2019 Assessments		
Paper Administration Test Date(s) / **Online Administration Test Date(s)**	**STAAR**	**Report Date(s)**
Assessment Window Dec 9–Dec 13	Algebra I Biology U.S. History	By January 17, 2020
Dec 9 (Mon)	English I	By January 17, 2020
Dec 11 (Wed)	English II	By January 17, 2020
Dec 13 (Fri)	All make-up sessions for **paper** and **online** STAAR EOC assessments scheduled to be administered from Dec 9–13, 2019, must be completed by the end of this day.	
2020 Assessments		
Test Date(s)	**NAEP Assessments (selected sample)**	
Assessment Window Late Jan–Early Mar	No NAEP assessments scheduled	

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Detailed information regarding the scheduling and administration of specific assessments can be found on the Coordinator Manual Resources webpage at http://tea.texas.gov/student.assessment/manuals/dccm/.		
Test Date(s)	**TELPAS and TELPAS Alternate**	**Report**
Assessment Window Feb 24–Apr 3	Grades K–12 TELPAS Listening, Speaking, Reading, and Writing	TELPAS by May 22, 2020 TELPAS Alternate by May 8, 2020
Test Date(s)	**STAAR Alternate 2**	**Report Date(s)**
Assessment Window March 30–April 21	STAAR Alternate 2 (grades 3–8 and EOC)	By May 15, 2020
Paper Administration Test Date(s) / **Online Administration Test Date(s)**	**STAAR**	**Report Date(s)**
Apr 7 (Tue) / **Apr 7 (Tue)**	Grade 4 Writing Grade 7 Writing	By June 19, 2020
	English I	By June 3, 2020
Apr 7 (Tue)	**Apr 6–Apr 17**	Grade 5 Mathematics Grade 8 Mathematics	By May 5, 2020
Apr 8 (Wed)	**Apr 6–Apr 17**	Grade 5 Reading Grade 8 Reading	By May 5, 2020
Apr 8 (Thur)	**Apr 8 (Thur)**	English II	By June 3, 2020
Apr 10 (Fri)	**Apr 10 (Fri)**	All make-up sessions for **paper** STAAR assessments scheduled to be administered on Apr 7–9, 2020, must be completed by the end of this day. **Online** make-up sessions for Grades 4 and 7 Writing and English I and English II must be completed by April 10.	
	Apr 17 (Fri)	Make-up sessions for **online** STAAR assessments scheduled to be administered from Apr 6–17, 2020, must be completed by the end of this day.	

Testing Information

Revised December 13, 2018	2019–2020 STUDENT ASSESSMENT TESTING CALENDAR Dates Subject to change		
Detailed information regarding the scheduling and administration of specific assessments can be found on the Coordinator Manual Resources webpage at http://tea.texas.gov/student.assessment/manuals/dccm/.			
Paper Administration Test Date(s)	**Online Administration Test Date(s)**	**STAAR**	**Report Date(s)**
May 4–May 8	**May 4–May 15**	Algebra I Biology U.S. History	By June 3, 2020
May 8 (Fri)		All make-up sessions for **paper** STAAR EOC assessments scheduled to be administered from May 4–8, 2020, must be completed by the end of this day.	
	May 15 (Fri)	All make-up sessions for **online** STAAR EOC assessments scheduled to be administered from May 4–15, 2020, must be completed by the end of this day.	
May 11 (Mon)	**May 11–May 22**	Grades 3–4 Mathematics Grades 6–7 Mathematics	By June 19, 2020
		Grades 5 Mathematics (retest) Grades 8 Mathematics (retest)	By June 10, 2020
May 12 (Tues)	**May 11–May 22**	Grades 3–4 Reading Grades 6–7 Reading	By June 19, 2020
		Grade 5 Reading (retest) *Grade 8 Reading (retest)*	By June 10, 2020
May 12 (Tues)	**May 12 (Tues)**	English III	By August 2, 2020
May 13 (Wed)	**May 11–May 22**	Grade 5 Science Grade 8 Science	By June 19, 2020
		Algebra II	By August 2, 2020
May 14 (Thur)	**May 11–May 22**	Grade 8 Social Studies	By June 19, 2020
May 15 (Fri)	**May 15 (Fri)**	All make-up sessions for **paper** STAAR assessments scheduled to be administered from May 11–14, 2020, must be completed by the end of this day. **Online** make-up sessions for English III must be completed by May 15.	
	May 22 (Fri)	Make-up sessions for **online** STAAR assessments scheduled to be administered from May 11–22, 2020, must be completed by the end of this day.	

Revised December 13, 2018	2019–2020 STUDENT ASSESSMENT TESTING CALENDAR Dates Subject to change		
Detailed information regarding the scheduling and administration of specific assessments can be found on the Coordinator Manual Resources webpage at http://tea.texas.gov/student.assessment/manuals/dccm/.			
Paper Administration Test Date(s)	**Online Administration Test Date(s)**	**STAAR**	**Report Date(s)**
Assessment Window June 22–June 26		Algebra I Biology U.S. History	By July 24, 2020
June 22 (Mon)		English I	By July 24, 2020
June 23 (Tues)		*Grade 5 Mathematics (retest)* *Grade 8 Mathematics (retest)*	By July 14, 2020
June 24 (Wed)		English II	By July 24, 2020
		Grade 5 Reading (retest) *Grade 8 Reading (retest)*	By July 14, 2020
June 26 (Fri)		All make-up sessions for **paper** and **online** STAAR assessments scheduled to be administered from June 22–26, 2020, must be completed by the end of this day.	

Three Year Graduates

Students wishing to graduate in three years must meet certain requirements.

1. The student must have passed all 9th and 10th grade EOC tests (ELA 1, ELA 2, Biology, Algebra 1.)
2. The student must declare in writing his/her intention to be a three– year graduate by the last day of their sophomore year and should have 18 credits.
3. All EOC tested courses must be taken in a classroom setting. These courses cannot be taken on Edgenuity.
4. The student must be in good academic standing and maintain 90% attendance.

Texas Education Agency Graduation Toolkit
Graduation Program – *Checklists*

8th Grade

- ☐ **Review** choices offered under the **Foundation High School Program** and the **Endorsements** to decide on your future academic path.
- ☐ **Select** the endorsement that best fits your area of personal interest and the major you plan to study in college.
- ☐ **Recognize** that most college entrance requirements include rigorous advanced courses including **Algebra II**, higher-level science courses and languages other than English.

9th/10th Grade

- ☐ **Monitor** high school credits; be sure to meet all **local and state requirements** by the end of the senior year.
- ☐ **Take dual enrollment** or **Advanced Placement courses** if possible to earn college credit while still in high school.
- ☐ **Keep** list of awards, honors and extracurricular activities for scholarship and college applications.
- ☐ **Research** colleges or universities you are interested in attending. **Check** admission and application requirements and timelines.
- ☐ **Explore** interests and take advantage of **Career Day** opportunities.
- ☐ **Attend college nights** hosted by your high school. **Talk** with school representatives about the types of financial aid available.
- ☐ **Take** the Preliminary SAT/National Merit Scholarship Qualifying Test in your sophomore year for practice. In your junior year, take the PSAT for eligibility for the National Merit Scholarship Competition. Students who take the PSAT or ACT's PLAN tend to score higher on the SAT or ACT than those who do not.

11th/12th Grade

- ☐ **Take dual enrollment** or **Advanced Placement courses** if possible to earn college credit while you are still in high school.
- ☐ **Check** with your counselor's office to learn about available scholarships. Be sure to apply early and for as many scholarships as possible. Do not limit yourself to local scholarships.
- ☐ **Consider** taking SAT/ACT preparation classes. **Sign up** and take the ACT and/or SAT test, preferably in your junior year but no later than the fall of your senior year.
- ☐ **Fill out** the FAFSA (Free Application for Federal Student Aid) early in the spring of your senior year.
- ☐ **Apply** to college during the fall of your senior year.

If you plan to pursue technical training or enter the workforce after graduation, see the Information - *Workforce Resources* page or visit Texas Reality Check at www.texasrealitycheck.com/.

Somerset ISD House Bill 5 Degree Requirements

Somerset High School has adopted the Distinguished Level of Achievement for all students. All students must indicate, in writing, during their 9th grade year, an endorsement they wish to pursue. The student may switch their endorsement up until the end of their 10th grade year. Students will also have the opportunity to indicate a major and minor to allow flexibility between endorsements.

Distinguished Level of Achievement (DLA) graduates must meet the Foundation Program and earn 4 Math credits including Algebra II, 4 Science credits, and at least 1 Endorsement.

The Distinguished Level of Achievement allows student to be eligible for Top 10% automatic admission. DLA requires the same courses as Foundation Plan with Endorsements; however, one of the 4 mathematics credits must be Algebra 2.

A student must complete the Foundation High School Program (22 credits), one additional math credit, one additional science credit, and two additional elective credits while completing the specific requirements of his/her selected endorsement.

Foundation w/ Endorsements

Arts & Humanities Endorsement
- Art
- Band
- Dance
- Foreign Language
- Mariachi
- Theatre Arts
- Social Studies

Business & Industry Endorsement
- Advanced Technology & Manufacturing Academy
- Agriculture: Mechanics
- Agriculture: Animal Science
- Automotive Technology
- A/V Technology & Communication
- Business Management
- Culinary Arts
- Diesel Technology Academy
- Information Technology & Security Academy
- Welding

Public Services Endorsement
- Cosmetology
- JROTC
- Health Science
- Criminal Justice
- Health Professions Academy

STEM Endorsement
(Science, Technology, Engineering, & Math)
- Aerospace Academy
- Engineering & Design Presentation
- Math Focus
- Science Focus

Foundation requirements:

English	
English I	1 credit
English 2	1 credit
English 3	1 credit
Advanced English Course	1 credit
Mathematics	
Algebra I	1 credit
Geometry	1 credit
Advanced Mathematics Course	1credit
Science	
Biology	1 credit
IPC or Advance Physical Science Course	1 credit
Advanced Science Course	1 credit
Social Studies	
World Geography or World History	1 credit
U.S. History	1 credit
Economics	1/2 credit
United States Government	1/2 credit
Foreign Language /Electives	
Languages Other than English (LOTE)	2 credits
Physical Education	1 credit
Fine Arts	1 credit
Electives	5 credits
TOTAL	**22 credits**

Graduation Performance Acknowledgements

House Bill 5 allows students to have their accomplishments recognized on their diploma through performance acknowledgment designations.

A student may earn a performance acknowledgment

for outstanding performance:

- in a dual credit course
- in bilingualism and bi-literacy
- on an AP test
- on the PSAT, the ACT-Plan, the SAT, or the ACT
- for earning a nationally or internationally recognized business or industry certification or license

(a) 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:

(1) at least 12 hours of college academic courses, including those taken for dual credit as part of the Texas core curriculum, and advanced technical credit courses, including locally articulated courses, with a grade of the equivalent of 3.0 or higher on a scale of 4.0; or

(2) an associate degree while in high school.

(b) A student may earn a performance acknowledgment on the student's diploma and transcript for outstanding performance in bilingualism and biliteracy.

(2) In addition to meeting the requirements of paragraph (1) of this subsection, to earn a performance acknowledgment in bilingualism and biliteracy, an English language learner must also have:

(A) participated in and met the exit criteria for a bilingual or English as a second language (ESL) program; and

(B) scored at the Advanced High level on the Texas English Language Proficiency Assessment System (TELPAS).

(c) A student may earn a performance acknowledgment on the student's diploma and transcript for outstanding performance on a College Board Advanced Placement test or International Baccalaureate examination by earning:

(1) a score of 3 or above on a College Board Advanced Placement examination; or

(2) a score of 4 or above on an International Baccalaureate examination.

(d) A student may earn a performance acknowledgment on the student's diploma and transcript for outstanding performance on the PSAT®, the ACT-PLAN®, the SAT®, or the ACT® by:

(1) earning a score on the Preliminary SAT/National Merit Scholarship Qualifying Test (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 (NHRP) of the College Board or as part of the National Achievement Scholarship Program of the National Merit Scholarship Corporation;

(2) achieving the college readiness benchmark score on at least two of the four subject tests on the ACT-PLAN® examination;

(3) earning a combined critical reading and mathematics score of at least 1250 on the SAT®; or

(4) earning a composite score on the ACT® examination of 28 (excluding the writing subscore).

(e) A student may earn a performance acknowledgment on the student's diploma and transcript for earning a nationally or internationally recognized business or industry certification or license as follows.

(1) A student may earn a performance acknowledgment with:

(A) performance on an examination or series of examinations sufficient to obtain a nationally or internationally recognized business or industry certification; or

(B) performance on an examination sufficient to obtain a government-required credential to practice a profession.

(2) Nationally or internationally recognized business or industry certification shall be defined as an industry validated credential that complies with knowledge and skills standards promulgated by a nationally or internationally recognized business, industry, professional, or government entity representing a particular profession or occupation that is issued by or endorsed by:

(A) a national or international business, industry, or professional organization;

(B) a state agency or other government entity; or

(C) a state-based industry association.

(3) Certifications or licensures for performance acknowledgements shall:

(A) be age appropriate for high school students;

(B) represent a student's substantial course of study and/or end-of-program knowledge and skills;

(C) include an industry recognized examination or series of examinations, an industry validated skill test, or demonstrated proficiency through documented, supervised field experience; and

(D) represent substantial knowledge and multiple skills needed for successful entry into a high-skill occupation.

Arts & Humanities: Includes a diverse selection of artistic and linguistic choices. Students who appreciate artistic endeavors will enjoy this pathway. It makes an excellent minor selection for those who enjoy the arts but do not seek to major in them.

ENDORSEMENT	9th Grade	10th Grade	11th Grade	12th Grade
ART	Art 1	Art 2	Art 3 or AP –2D	Art 4 or AP –3D
BAND/JAZZ BAND	Band 1/Jazz Band 1	Band 2/Jazz Band 2	Band 3/Jazz Band 3	Band 4/Jazz Band 4
DANCE	Dance 1	Dance 2	Dance 3	Dance 4
MARIACHI	Mariachi 1	Mariachi 2	Mariachi 3	Mariachi 4
SPANISH	Spanish 1	Spanish 2	Spanish 3 AP or Spanish 3 DE	AP Spanish 4
THEATRE PRODUCTION	Theatre Arts 1	Theatre Arts 2	Theatre Arts 3	Theatre Arts 4

STEM (Science, Technology, Engineering, and Math) : STEM is a hands on application of math and science. It includes robotics, computer drafting, inventions, and experimentation. This is a college readiness career pathway. A STEM focused health science pathway was tailored to students wanting to pursue medical school and post bachelorette studies. ***The following science courses must be completed for any category of a STEM endorsement: Biology, Chemistry, and Physics.***

ENDORSEMENT	9th Grade	10th Grade	11th Grade	12th Grade
AEROSPACE ACADEMY	Principles Of Applied Engineering	Engineering and Design & Presentation	Alamo College	Alamo College

Industry-Based Certification : Level 1 Certificate of Completion Aircraft Structure and Turbine Mechanic

ROBOTICS AND ENGINEERING & DESIGN PRESENTATION	Principles Of Applied Engineering	Robotics I and/or Engineering Design & Presentation I	Robotics 2 and/or Engineering Design & Presentation 2	Practicum in Science, Technology, Engineering and Math (2 periods)

Industry-Based Certification: SolidWorks Associate

MATH (5 credits)	Algebra I or Geometry	Geometry or Algebra 2	Algebra 2 or Advanced Math	*Advanced Math	*Advanced Math
SCIENCE (5 credits)	Biology	Chemistry	Physics	Advanced Science	Advanced Science

*Courses offered in Pre AP & AP

Business and Industry: This pathway includes many hands on and career focused options. Students can easily build and master skills used in today's workforce. Students can continue their education in college or trade school, or enter the workforce after high school.

ENDORSEMENT	9th Grade	10th Grade	11th Grade	12th Grade
ANIMAL SCIENCE	Principles Of Ag, Food, and Natural Resources	Livestock Production	Wildlife, Fisheries, and Ecology Management	Veterinary Medical Applications	Practicum Agriculture, Food and Natural Resources (2-3 periods)
Industry-Based Certification : Certified Veterinary Assistant				
AGRICULTURAL MECHANICS	Principles Of Ag, Food, and Natural Resources	Agricultural Mechanics and Metal Technologies	Agriculture Power Systems (2 periods) or Agricultural Structures Design & Fabrication	Practicum Agriculture, Food and Natural Resources (2-3 periods)
Industry-Based Certification : American Welding Society Certified Welder				
AUTOMOTIVE TECHNOLOGY	Automotive Basics	Automotive Technology 1 (2 periods)	Automotive Technology 2 (2 periods)	Practicum of Transportation Systems (2-3 periods)
Industry-Based Certification : Brakes and/or Heating AC				
A/V, Technology and Communications	Principles Of Arts, A/V Technology and Communications	Audio-Visual Production 1	Audio-Visual Production 2/Audi-Visual Production 2 Lab (2 periods)	Practicum in Audio-Visual Production (2 periods)
		Graphic Design and Illustration 1	Graphic Design and Illustration 2/Graphic Design and Illustration 2 Lab (2 periods)	Practicum in Graphic Design and Illustration (2 periods)
Industry-Based Certification : Microsoft Office Specialists				
BUSINESS & INDUSTRY ENDORSEMENT	Principles of Business, Marketing, and Finance	Business Management	Business Law	Practicum in Business Management or Career Prep (2-3 periods)
Industry-Based Certification : Microsoft Office Specialists				

Business and Industry: This pathway includes many hands on and career focused options. Students can easily build and master skills used in today's workforce. Students can continue their education in college or trade school, or enter the workforce after high school.

ENDORSEMENT	9th Grade	10th Grade	11th Grade	12th Grade
ADVANCE TECH & MANUFACTURING ACADEMY	Principles of Ag, Food, and Natural Resources	Introduction to Welding	Alamo College	Alamo College

Industry-Based Certification : Level 1 Certification of Completion-Manufacturing Skills Trade helper or Tool Operator/maintenance Assistant

CULINARY	Introduction to Culinary Arts	Culinary Arts (2 periods)	Advanced Culinary Arts (2 periods)	Practicum in Culinary (2-3 periods)

Industry-Based Certification : ServSafe Manager or Manager First Professional Credentials

DIESEL TECHNOLOGY ACADEMY	Principles of Transportation	Automotive Technology 1	Alamo College	Alamo College

Industry-Based Certification : Level 1 Certificate of Completion-Diesel heavy Equipment

INFORMATION TECHOLOGY & SECURITY ACADEMY	Principles Of Arts, A/V Technology and Communications	Principles of Applied Engineering	Alamo College	Alamo College

Industry-Based Certification : Level 1 Certificate of Completion-Computer Desktop Support Technician or Technology and Security

MANUFACTURING	Introduction to Welding	Welding I (2 periods)	Welding 2 or MET/ CIM PLTW (2 periods)	Practicum of Manufacturing or MET/CIM PLTW (2-3 periods)

Industry-Based Certification : Welding Certification or AutoCAD User Certificate

Public Service : This public service pathway offers a diverse selection of offerings for students who are interested in cosmetology, military, criminal justice, and heath science.

ENDORSEMENT	9th Grade	10th Grade	11th Grade	12th Grade
COSMETOLOGY	Principles of Business or Principles of Health Science	Introduction to Cosmetology	Cosmetology 1 (2 periods)	Cosmetology 2 (3 periods)

Industry-Based Certification : Cosmetology Operator Licenses

CRIMINAL JUSTICE	Principles Of Law, Public Safety, Corrections and Security	Law Enforcement 1	Law Enforcement 2 and/or Correctional Services	Practicum in Law, Public Safety and/or Corrections, and Security (2 periods)

Industry-Based Certification : Microsoft Office Specialists

HEALTH SCIENCE ACADEMY	Principles of Health Science	Health Science Theory	Alamo College	Alamo College

Industry-Based Certification : 36 College hours

HEALTH SCIENCE	Principals Of Health Science	Health Science Theory	Medical Terminology	Practicum in Health Science (2-3 periods)

Industry-Based Certification : Certified Patient Care Technician

JROTC	JROTC 1	JROTC 2	JROTC 3	JROTC 4

Somerset High School
2019-2020 Course Catalog

Core Subject Course Guide

English/Language Arts

Reading 1
The primary focus of the class will be developing life long readers and learners. Student will utilize a combination of individualized reading and writing activities, and reading comprehension strategies to build fluency and knowledge in literacy.

Grade: 9 - 12
Prerequisite: None
Graduation Requirement: Elective
Semesters: 2
Credit: 1

Basic English I
Basic English I integrates reading, writing, speaking and listening skills necessary for problem solving, written and oral communication, labeling, grammar and transition planning, The course present a comprehensive, multi-sensory, and systematic approach to language arts. ***Placement by ARDC only.***

Grade: 9
Prerequisite: Placement by ARDC
Graduation Requirement: English
Semesters: 2
Credit: 1

Applied English I
Applied English I emphasizes reading, writing, speaking and listening skills necessary for written and oral communication for daily living and transition planning. ***Placement by ARDC only.***

Grade: 9
Prerequisite: Placement by ARDC
Graduation Requirement: English
Semesters: 2
Credit: 1

Reading 2
This course focuses on the development of basic literacy skills for improved performance on content area literacy tasks and on state reading/language arts assessments.

Grade: 10 - 12
Prerequisite: Reading 1
Graduation Requirement: Elective
Semesters: 2
Credit: 1

English I
This course stresses the study of language including composition, literature, and grammar usage. Composition includes the writing process, refinement of skills and practice with different approaches and styles. Literature begins with the study of genre and terms.

Grade: 9
Prerequisite: None
Graduation Requirement: English
Semesters: 2
Credit: 1

Pre– AP English I
This advanced course stresses the study of language including composition, literature and grammar usage. Composition includes the writing process, refinement of skills and practice with different approaches and styles. Outside reading required. Pre-AP courses are based on a strong college curriculum. Students are expected to meet the rigorous academic demands and extra work. Failure to meet these requirements will result in dismissal from the program. This course prepares students for future AP courses. Weighted.

Grade: 9
Prerequisite: Teacher Approval and pass STAAR
Graduation Requirement: English
Semesters: 2
Credit: 1

English/Language Arts

Basic English 2
Basic English II integrates reading, writing, speaking and listening skills necessary for problem solving, written and oral communication, labeling, grammar and transition planning. This course presents a comprehensive, multi-sensory and systematic approach to language arts. ***Placement by ARDC only.***

Grade: 10
Prerequisite: Placement by ARDC
Graduation Requirement: English
Semesters: 2
Credit: 1

Applied English 2
Applied English II emphasizes reading, writing, speaking and listening skills necessary for written and oral communication for daily living and transition planning. ***Placement by ARDC only.***

Grade: 10
Prerequisite: Placement by ARDC
Graduation Requirement: English
Semesters: 2
Credit: 1

Basic English 3
Basic English III integrates reading, writing, speaking and listening skills necessary for problem solving, written and oral communication, labeling, grammar and transition planning. This course presents a comprehensive, multi-sensory and systematic approach to language arts. ***Placement by ARDC only.***

Grade: 11
Prerequisite: Placement by ARDC
Graduation Requirement: English
Semesters: 2
Credit: : 1

Applied English 3
Applied English III emphasizes reading, writing, speaking and listening skills necessary for written and oral communication for daily living and transition planning. ***Placement by ARDC only.***

Grade: 11
Prerequisite: Placement of ARDC
Graduation Requirement: English
Semesters: 2
Credit: 1

English 2
This course includes the study of language and includes composition, literature and grammar usage. Students study the writing process, focusing on refinement of skills through editing and re-writing.

Grade: 10
Prerequisite: English 1
Graduation Requirement: English
Semesters: 2
Credit: 1

Pre-AP English 2
This advanced course includes the study of language and includes composition, literature and grammar usage. Students study the writing process, focusing on refinement of skills through editing and rewriting. Outside reading required. Pre-AP courses are based on a strong college curriculum. Students are expected to meet the rigorous academic demands and extra work. Failure to meet these requirements will result in dismissal from the program. This course prepares students for future AP courses. Weighted.

Grade: 10
Prerequisite: Pre-AP English 1 (preferred), Teacher Approval and pass STAAR
Graduation Requirement: English
Semesters: 2

English 3
This course includes the study of literature, composition and grammar usage. American authors' works and times, in conjunction with the study of genre and literary terms, are the focus of this course.

Grade: 11
Prerequisite: English II
Graduation Requirement: English
Semesters: 2
Credit: 1

English/Language Arts

AP English 3
This course emphasize critical thinking, advanced reading and writing skills. Students will complete college level work. Outside reading required. Students are expected to meet the rigorous academic demands and extra work. Failure to meet these requirements will result in dismissal from the program. Students will take the AP exam. Weighted.

Grade: 11
Prerequisite: Pre-AP English II (preferred), passed STAAR, Teacher Approval
Graduation Requirement: English
Semesters: 2
Credit: 1

Basic English 4
Basic English IV integrates reading, writing, speaking and listening skills necessary for problem solving, written and oral communication, labeling, grammar and transition planning. This course presents a comprehensive, multi-sensory and systematic approach to language Placement by ARDC only.

Grade: 12
Prerequisite: Placement by ARDC
Graduation Requirement: English
Semesters: 2
Credit: 1

Applied English 4
Applied English IV emphasizes reading, writing, speaking and listening skills necessary for written and oral communication for daily living and transition planning. ***Placement by ARDC only.***

Grade: 12
Prerequisite: Placement by ARDC
Graduation Requirement: English
Semesters: 2
Credit: 1

English 4 College Prep
In this college-preparatory course designed for senior students who have not meet English Language Arts college readiness criteria. Students will improve integrated critical reading and writing skills through engagement with a variety of texts across content areas and genres. As a result, students will be able to develop and express ideas clearly and effectively to communicate with various audiences for various purposes and occasions. Students experience a performance based portfolio assessment. Upon successful completion students will receive a TSI waiver and may enter any higher education partnering institution without additional remediation requirements in reading and writing.

COURSE NOTE: This is a 4th year English course intended for students who have not met college ready criteria by other measures and already have credit for English 3.

Grade: 12
Prerequisite: English 3
Type: Regular
Credit: 1

Dual Credit English 3
This course emphasizes critical thinking, advanced reading and writing skills. Students will complete college level work. Outside reading required with a focus on American Literature. Students must maintain a 2.0 grade point average (GPA) to be eligible to continue in the program. Each semester grade of 80 or above will be awarded one Advanced Measure. A total of 6 college hours and 2 Advanced Measures can be earned. Weighted.

Grade: 11
Prerequisite: English II Pre-AP (preferred), Parent & Teacher Approval, Passed College Placement Test
Graduation Requirement: English
Semesters: 2
Credit: 1

English 4
This course includes the study of literature, composition, and grammar usage and literary terms. Students will study British authors, focusing on poetry, drama, fiction and nonfiction.

Grade: 12
Prerequisite: English 3
Graduation Requirement: English
Semesters: 2

AP English 4
British literature and American literature are studied. The course will emphasize critical thinking, and advanced reading and writing skills. Student will experience college level work. Outside reading and writing are required. AP courses are based on a strong college curriculum. Students are expected to meet the rigorous academic demands and extra work. Failure to meet these requirements will result in dismissal from the program. Students will take the AP exam. One Advanced Measure will be awarded with a AP score of 3 or higher Weighted.

Grade: 12
Prerequisite: Pre-AP classes (preferred), Passed STAAR, Teacher Approval
Graduation Requirement: English
Semesters: 2
Credit: 1

Dual Credit English 4
Contemporary and British literature are studied along with major movements and genres. This course will emphasize critical thinking and college level reading and writing skills. Outside reading and writing are required. Students must maintain a 2.0 grade point average (GPA) to be eligible to continue in the program. Each semester grade of 80 or above will be awarded one Advanced Measure. A total of 6 college hours and 2 Advanced Measures can be earned. Weighted.

Grade: 12
Prerequisite: English 3 AP or Dual Credit (preferred), Parent & Teacher Approval, Passed College Placement Test
Graduation Requirement: English
Semesters: 2

Mathematics

Algebra I
In this integrated entry level mathematics course, students study the concept of a function as a relationship between two quantities. Concepts from geometry, probability, statistics and data analysis are explored through the investigation of meaningful problems. Problem solving, reasoning, justification, communication and the appropriate use of technology are emphasized.

Grade: 9 - 10
Prerequisite: None
Graduation Requirements: Math
Semesters: 2
Credit: 1

Geometry
In this integrated mathematics course, students study plane and solid geometry as they continue their study of functions. In addition, concepts from trigonometry, statistics, probability and data analysis are explored through the investigation of meaningful problems. Problem solving, reasoning, justification, communication and the appropriate use of technology are emphasized.

Grade: 9 - 10
Prerequisite: Algebra I
Graduation Requirements: Math
Semesters: 2
Credit: 1

Algebra 2
Students continue their study of functions. They explore rational, logarithmic, exponential, quadratic and square root functions and conic sections. Concepts from probability, statistics and data analysis are explored through the investigation of meaningful problems. Problem solving, communication, connections and the appropriate use of technology are emphasized.

Grade: 10 - 11
Prerequisite: Algebra I
Graduation Requirements: Math
Semesters: 2
Credit: 1

MathBridge
A full-year dual credit online mathematics course from UT Austin. Topics include ideas from number theory, geometry, graph theory, rubber sheet geometry, probability and statistics. Students participate in classroom lessons and activities to reinforce these concepts. MathBridge classes come to UT Austin for a guided visit. Students receive three credits for M302: Introduction to Mathematics upon successful completion of the two-semester course. (M302 transfers under the common course numbers system as MATH 1332). Weighted.

Grade: 11-12
Prerequisite: Algebra 2, Teacher Approval
Graduation Requirements: Math
Semesters: 2
Credit: 1

Algebraic Reasoning
This course develops mathematical reasoning related to algebraic understandings and processes, and deepens the foundation for studies in subsequent mathematics course. Students will broaden their knowledge of functions and relationships through analysis and application.

Grade: 9 - 12
Prerequisite: Algebra I
Graduation Requirements: Math
Semesters: 2
Credit: 1

Pre – AP Geometry
Students study plane and solid geometry as they continue their study of functions. In addition, concepts from trigonometry, statistics, probability and data analysis are explored through the investigation of meaningful problems. Problem solving, reasoning, justification, communication and the appropriate use of technology are emphasized. Pre-AP courses are based on a strong college curriculum. Students are expected to meet the rigorous academic demands and extra work. Failure to meet these requirements will result in dismissal from the program. This course prepares students for future Pre-AP and AP courses. Weighted.

Grade: 9 - 10
Prerequisite: Teacher Approval and passed STAAR test
Graduation Requirements: Math
Semesters: 2
Credit: 1

Pre-AP Algebra 2
Students continue their study of functions. They explore rational, logarithmic, exponential, quadratic and square root functions and conic sections. Concepts from probability, statistics and data analysis are explored through the investigation of meaningful problems. Pre-AP courses are based on a strong college curriculum. Students are expected to meet the rigorous academic demands and extra work. Failure to meet these requirements will result in dismissal from the program. This course prepares students for future Pre-AP and AP courses. Weighted.

Grade: 10 - 12
Prerequisite: Pre-ap Algebra I, and Pre-Ap Geometry preferred Teacher Approval
Graduation Requirements: Math
Semesters: 2
Credit: 1

Statistics
Students will broaden their knowledge of variability and statistical process. Student will study sampling and experimentation, categorical and quantitative data, probability and random variables, inference, and bivariate data. Student will connect data and statistical processes to real-world situations. In addition, students will extend their knowledge of data analysis.

Grade: 11-12
Prerequisite: Algebra I
Graduation Requirements: Math
Semesters: 2
Credit: 1

Mathematics

Pre Calculus *

In this college preparatory course, students deepen their understanding of functions, including polynomial, rational, radical, exponential, logarithmic, trigonometric, and piece-wise defined. They will continue to study conic sections, investigate sequences and series and vectors. Emphasis is on problem solving.

Grade: 11 - 12
Prerequisite: Geometry, Algebra 2
Graduation Requirements: Math
Semesters: 2
Credit: 1

AP Calculus AB *

Content requirements for AP Calculus AB are prescribed in the College Board publication Advanced Placement Course Description, Math: Calculus AB. AP courses are based on a strong college curriculum. Students are expected to meet the rigorous academic demands and extra work. Failure to meet these requirements will result in dismissal from the program. Students will take the AP exam. Weighted.

Grade: 11 - 12
Prerequisite: Pre-Ap Pre-Calculus preferred, Teacher Approval
Graduation Requirements: Math
Semesters: 2
Credit: 1

Pre-AP Pre Calculus *

This college preparatory course unifies the concepts of algebra, geometry and trigonometry for analytical and scientific applications. Pre-AP courses are based on a strong college curriculum. Students are expected to meet the rigorous academic demands and extra work. Failure to meet these requirements will result in dismissal from the program. This course prepares students for future Pre-AP and AP courses. Weighted.

Grade: 11 - 12
Prerequisite: Pre-Ap Geometry preferred, Algebra 2, Teacher Approval
Graduation Requirements: Math
Semesters: 2
Credit: 1

College Prep Math

In this college-preparatory course designed for senior students who have not meet math college readiness criteria. The purpose of this course is to reinforce and build upon algebra topics to prepare the student for college readiness. This course is a blend of Elementary and Intermediate Algebra with emphasis placed on algebraic techniques which will prepare the student for success in a college-entry math course, such as College Algebra. The coursework requires students to be proficient both with and without the calculator. Upon successful completion students will receive a TSI waiver and may enter any higher education partnering institution without additional remediation requirements in Math.

COURSE NOTE: The prerequisite requirements for this class is the successful completion of Geometry and Algebra 2.

Grade: 12
Prerequisite: Geometry-Algebra 2 or Algebra 2 Pre AP or Pre-Calculus Pre AP –Advanced Quantitative Reasoning
Type: Regular
Credit: 1

Science

Applied Biology
Applied Science includes the study of the biological principles necessary for daily living and transition planning. ***Placement by ARDC only.***

Grade: 9 - 10
Prerequisite: Placement by ARDC
Graduation Requirements: Science
Semesters: 2
Credit: 1

Pre AP Biology
This course includes the study of the different groups of plants and animals on Earth according to their evolutionary relationships. Biological principles are covered by studying representative organisms. Pre-AP courses are based on a strong college curriculum. Students are expected to meet the rigorous academic demands and extra work. Failure to meet these requirements will result in dismissal from the program. This course prepares students for future Pre-AP and AP courses. Weighted.

Grade: 9 - 10
Prerequisite: Teacher Approval
Graduation Requirements: Science
Semesters: 2
Credit: 1

IPC - Integrated Physics and Chemistry
This course integrates the disciplines of Physics and Chemistry in the following topics: motions, waves, energy transformation, properties of matter, changes in matter and solution chemistry. Must be taken prior to Physics and Chemistry.

Grade: 9 - 10
Prerequisite: None
Graduation Requirements: Science
Semesters: 2

Pre AP Chemistry
Topics for this course include characteristics of matter, energy transformation during physical and chemical charges, atomic structure, periodic table of elements, behavior of gases; nuclear fusion and nuclear fission; oxidation reduction reactions and chemical solutions and reactions. Pre-AP courses are based on a strong college curriculum. Students are expected to meet the rigorous academic demands and extra work. Failure to meet these requirements will result in dismissal from the program. This Course prepares students for future Pre-Ap and AP courses

Grade: 10 - 12
Prerequisite: Pre-Ap Biology preferred, Algebra I, and Teacher Approval
Graduation Requirements: Science
Semesters: 2
Credit: 1

Biology
This course includes the study of the different groups of plants and animals on Earth according to their evolutionary relationships. Biological principles are covered by studying representative organisms.

Grade: 9 - 10
Prerequisite: None
Graduation Requirements: Science
Semesters: 2
Credit: 1

Applied Chemistry
Applied Science II includes the study of chemical principles necessary for daily living and transition planning. ***Placement by ARDC only.***

Grade: 10 - 11
Prerequisite: Placement by ARDC
Graduation Requirements: Science
Semesters: 2
Credit: 1

Chemistry
Topics for this course include characteristics of matter, energy transformation during physical and chemical charges, atomic structure, periodic table of elements, behavior of gases; nuclear fusion and nuclear fission; oxidation reduction reactions and chemical solutions and reactions.

Grade: 10 - 11
Prerequisite: Biology, Algebra I
Graduation Requirements: Science
Semesters: 2
Credit: 1

AP Biology
This lab based course offers more in-depth experiences in the concepts of biology by focusing on laboratory investigations of chemical reactions that occur in organisms. Advanced techniques for studying the biological systems of plants and animals will be emphasized. Classification skills, problem solving activities and independent research will be an integral part. Failure to meet these requirements will result in dismissal from the program. Students will take the AP exam. Weighted.

Grade: 11 - 12
Prerequisite: Pre-Ap Biology I and Chemistry preferred, Passed STAAR Science, Teacher Approval
Graduation Requirements: Science
Semesters: 2
Credit: 1

Science

Physics
Students enrolled in physics will use basic algebra to explore phenomena found in the physical world around us. Students will form predictions, explore, and record observations of the following: the motion of physical objects, the transfer of energy, the flow of heat, the attraction and repulsion of charges, and the behavior of waves of light and sound. Emphasis is placed on conducting hands-on laboratory investigations, utilizing equations to calculate unknown variables, and the development of a basic conceptual understanding of the relationship between motion, energy, and matter.

Grade: 11 - 12
Prerequisite: Biology, Chemistry I, Algebra I, and Geometry
Graduation Requirements: Science
Semesters: 2
Credit: 1

Pre-AP Physics
Students enrolled in pre-AP physics will use algebra to explore phenomena found in the physical world around us. Students will form predictions, explore, and record observations of the following: the motion of physical objects, the transfer of energy, the flow of heat, the attraction and repulsion of charges, and the behavior of waves of light and sound. This course is designed to introduce students to college-level physics curriculum, laying the foundation for the rigorous demands of AP Physics. Introductory Physics curriculum is explored in increased detail, utilizing vector-addition, algebraic substitution, factoring, and multi-step calculations. Students who are unable to maintain the accelerated pace and heightened demands of the Pre-AP curriculum will be dismissed from the program. Weighted.

Grade: 11 - 12
Prerequisite: Biology, Chemistry I, Algebra I, Geometry, and Teacher Approval
Graduation Requirements: Science
Semesters: 2

Anatomy and Physiology of Human Systems
Students investigate the structures and functions of the components of the human body. In depth investigation is required into cell specialization and function, body, tissue, organs and systems. Course is designed to prepare students for a medically related career.

Grade: 11 - 12
Prerequisite: Biology, Chemistry or concurrent enrollment in Chemistry
Graduation Requirements: Science
Semesters: 2
Credit: 1

ChemBridge
ChemBridge is a web-based, dual-credit course that allows high school students to earn six hours of college chemistry credit upon satisfactory completion of the course, while concurrently earning two semesters of high school credit for an advanced science class that serves as an Advanced Measure under the Texas Education Agency Distinguished Achievement Program. The two semesters of the dual-credit course correspond to the two University of Texas at Austin courses designated as CH 304K and CH 305 and *entitled Chemistry* in Context I and *Chemistry in Context II, respectively. These two courses are generally taken by non-science majors, and correspond to 1305 and 1307 in the Texas Common Course Numbering system.*

Grade: 11 - 12
Prerequisite: Pre-Cal or Concurrent enrollment in Calculus , Teacher Approval
Graduation Requirements: Science
Semesters: 2
Credit: 1

Applied Physics
Applied Science 3 is a course using scientific methods when conducting field investigations required for daily living and transition planning. ***Placement by ARDC only.***

Grade: 11 - 12
Prerequisite: Placement by ARDC
Graduation Requirements: Science
Semesters: 2
Credit: 1

Forensic Science
This course provides an introduction to the topics of criminology within the field of forensic science. Study includes the applications of concepts from the areas of biology, chemistry, physics and geology to analyze and investigate evidence that may be discovered in a criminal investigation. Classroom activities include experiments, projects, case studies and the incorporation of technology.

Grade: 11 - 12
Prerequisite: Algebra I, Biology, Chemistry
Graduation Requirements: Science
Semesters: 2
Credit: 1

Social Studies

World Geography
World Geography is a survey course covering both physical and human geography with emphasis on the five geographic themes.

Grade: 9
Prerequisite: None
Graduation Requirement: Social Studies
Semesters: 2
Credit: 1

World History
World History is a general survey course starting with pre-history and ending in the present. Content includes the development of early civilization, western civilization and other world regions from their early days to present.

Grade: 10
Prerequisite: World Geography
Graduation Requirement: Social Studies
Semesters: 2
Credit: 1

AP World History
AP World History encompasses the history of the five major geographical regions of the globe: Africa, the Americas, Asia, Europe, and Oceania, with special focus on historical developments and processes that cross multiple regions. Students are expected to meet the rigorous academic demands and extra work. Failure to meet these requirements will result in dismissal from the program. Weighted.

Grade: 10
Prerequisite: World Geography
Graduation Requirement: Social Studies
Semesters: 2
Credit: 1

Psychology
This course focused on individual behavior and why an individual thinks, feels, and reacts to certain stimuli. Major emphasis will be placed on research methods, stages in childhood and adolescence, how the brain works, altered states of consciousness, psychological testing, and psychological disorders.

Grade: 10-12
Prerequisite: none
Graduation Requirement: Elective
Semesters: 1
Credit: 0.5

Pre-AP World Geography
This course covers both physical and human geography with emphasis on the five geographic themes. Pre-AP courses are based on a strong college curriculum. Students are expected to meet the rigorous academic demands and extra work. Failure to meet these requirements will result in dismissal from the program. This course prepares students for future AP courses. Weighted
.Grade: 9
Prerequisite: Teacher Approval
Graduation Requirement: Social Studies
Semesters: 2

Pre-AP World History
Pre-AP World History focuses deeply on the concepts and skills that have maximum value for college, career, and civic life. It has 7 units- one geography unit and six world history units that cover different historical periods. Key Topics are: Interpreting maps and geographic data, world regions, climates, human interaction with the environment population change and migration. Students ae expected to meet the rigorous academic demands and extra work. Failure to meet these requirements will result in dismissal from the program. Weighted.

Grade: 10
Prerequisite: World Geography
Graduation Requirement: Social Studies
Semesters: 2
Credit: 1

Sociology
This course is an introduction to the study of human relationships with focus on interaction with social environment. Students study topics such as the history and systems of sociology, cultural and social norms, social institutions, and mass communication.

Grade: 10-12
Prerequisite: none
Graduation Requirement: Elective
Semesters: 1
Credit: 0.5

AP Psychology
AP Psychology is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. The course focuses on the biological and social bases for human behavior, learning, growth, personality, and the scientific methods of psychological research, testing of individual differences and treatments of psychological disorders. Preparation for the AP test will be an integral part of the course requiring students to read and write at a college level, and to work outside of class time on writing assignments and group projects.

Grade: 10 - 12
Prerequisite: None
Graduation Requirement: Elective
Semesters: 2

Social Studies

United States History
United States History is a general survey of American History from post civil war to present with emphasis on the 20th Century.

Grade: 11
Prerequisite: World History
Graduation Requirement: Social Studies
Semesters: 2
Credit: 1

Dual Credit United States History
The major aspects of the political, social, economic and intellectual history of the United States will be studied. Part One will focus on key events that occurred from the discovery of America to the Civil War and Part Two will include the major events from the Civil War era to the present. Students must maintain a 2.0 grade point average (GPA) to be eligible to continue in the program. A total of 6 college hours and 2 Advanced Measures can be earned. Weighted.

Grade: 11 - 12
Prerequisite: Passed College Placement Test, Parent & Teacher Approval
Graduation Requirement: Social Studies
Semesters: 2

Economics - Free Enterprise
Economics is a survey course of micro-economic and macro-economic principles of the free enterprise system. The course emphasizes basic economic concepts including market forces, market structures, business organizations and international trade.

Grade: 12
Prerequisite: US History
Graduation Requirement: Social Studies
Semesters: 1
Credit: 0.5

Dual Credit Macroeconomics
Economics is a survey course of micro-economic and macro-economic principles of the free enterprise system. The course emphasizes basic economic concepts including market forces, market structures, business organizations and international trade. Students must maintain a 2.0 grade point average (GPA) to be eligible to continue in the program. A total of 3 college hours .Weighted.

Grade: 12
Prerequisite: US History, Passed College Placement Test, Parent & Teacher Approval
Graduation Requirement: Economics
Semesters: 1
Credit: 0.5

AP United States History
AP US History is a general survey of American History from post–Civil War to present with emphasis on the 20th Century. AP courses are based on a strong college curriculum. Students are expected to meet the rigorous academic demands and extra work. Failure to meet these requirements will result in dismissal from the program. Students will take the AP exam. One Advanced Measure will be awarded with AP score of 3 or higher. Weighted.

Grade: 11
Prerequisite: Pre-AP/AP/World History, Teacher Approval
Graduation Requirement: Social Studies
Semesters: 2

United States Government
United States Government is a survey course of federal, state, and local government.

Grade: 12
Prerequisite: US History
Graduation Requirement: Social Studies
Semesters: 1
Credit: 0.5

Dual Credit United States Government
United States Government is a survey of federal, state, and local government. Students must maintain a 2.0 grade point average (GPA) to be eligible to continue in the program. A grade of 80 or above will be awarded one Advanced Measure. A total of 3 college hours. Weighted.

Grade: 12
Prerequisite: US History, Pass College Placement Test, Parent & Teacher Approval
Graduation Requirement: Social Studies
Semesters: 1
Credit: 0.5

Physical Education/Health/Athletics

Individual Or Team Sports

Students are expected to develop health related fitness and appreciation for teamwork and fair play. This course concentrates on the concept of incorporating physical activity into a lifestyle beyond high school.

Grade: 9 - 12
Prerequisite: None
Graduation Requirement: Physical Education
Semesters: 1
Credit: 0.5

Aerobic Activities

This course exposes students to a variety of activities, which promote health related fitness. A major expectation of this course is for the student to design a personal fitness program that uses aerobic activities as a foundation.

Grade: 9 - 12
Prerequisite: None
Graduation Requirement: Physical Education
Semesters: 1
Credit: 0.5

Somerset High School offer a variety of competitive sports for both boys and girls. Athletic activities are conducted under the guidelines of the University Interscholastic League (UIL). Student participation in each sport requires a review by the head coach of the respective sport, parental permission, a physical examination by a licensed physician, evidence of insurance, and maintenance of a satisfactory academic record as mandated by the State of Texas and Somerset ISD.

Girls Athletics I - 4

Competitive UIL team sports: basketball and volleyball

Grade: 9 - 12
Prerequisite: None
Graduation Requirement: Physical Education/Elective
Semesters: 1 or 2
Credit: 0.5 or 1

Boys Athletics I - 4

Competitive UIL team sports: Football and Basketball

Grade: 9 –12
Prerequisite: None
Graduation Requirement: Physical Education/Elective
Semesters: 1 or 2
Credit: 0.5 or 1

(Varsity) Cheerleading for PE

Prerequisite: Meet UIL eligibility requirement, have current physical and UIL paperwork on file, have coaches approval. Students must be enrolled in the JV course for one year prior to entering the Varsity course. Students will broaden their knowledge and experience in the area of cheer. These areas include the levels of intermediate to advanced stretching techniques, tumbling techniques, performance techniques, stunt techniques, and dance techniques.

Grade: 9 - 12
Prerequisite: None
Graduation Requirement: Physical Education/Elective
Semesters: 1 or 2
Credit: 0.5 or 1

(Junior Varsity) Cheerleading for PE

Prerequisite: Meet UIL eligibility requirement, have current physical and UIL paperwork on file, have coaches approval. Students will broaden their knowledge and experience in the area of cheer. These areas include the levels of beginning to intermediate stretching techniques, tumbling techniques, performance techniques, stunt techniques, and dance techniques.

Grade: 9 –12
Prerequisite: None
Graduation Requirement: Physical Education/Elective
Semesters: 1 or 2
Credit: 0.5 or 1

Foreign Language

Spanish I
A beginner's course in which the student learns to develop the four basic skills of listening, speaking, reading and writing in Spanish. Students will be able to communicate in Spanish on a novice-low to novice-mid level regarding everyday situations.

Grade: 9 - 10
Prerequisite: None
Graduation Requirement: Foreign Language
Semesters: 2
Credit: 1

Spanish 2
This course is designed to increase a student's ability to communicate in Spanish (both in speaking and writing) and to expand reading and comprehension skills. Students will also become acquainted with Spanish literature, poetry and short stories.

Grade: 9 - 12
Prerequisite: Spanish I
Graduation Requirement: Foreign Language
Semesters: 2
Credit: 1

Spanish 3
This course is an extension of Spanish I and II. Students will have the opportunity to acquire greater fluency in the Spanish language. The course also explores the culture, but with increased attention to short plays and novels.

Grade: 10 - 12
Prerequisite: Spanish 2
Graduation Requirement: Foreign Language
Semesters: 2
Credit: 1

Pre - AP Spanish 3 - Language
This course is offered to the more advanced student who plans to prepare for the AP Spanish Language examination. The course covers preliminary studies in both advanced grammar and literature. It is intended to help the students become proficient readers and writers. The students are engaged in intensive reading, writing, and listening activities. Students may earn up to a total of 20 college credits at UTSA by taking the AP examination and 2 Advanced Measures. Weighted.

Grade: 10 - 12
Prerequisite: Spanish I and 2, Teacher Approval
Graduation Requirement: Foreign Language
Semesters: 2
Credit: 1

Dual Credit Spanish 3
This is an upper level course, which offers students the opportunity to continue developing their listening skills while placing emphasis on reading and writing skills. Students must maintain a 2.0 grade point average (GPA) to be eligible to continue in the program. Each semester grade of 70 or above will be awarded one Advanced Measure. A total of 4 college hours per semester and 2 Advanced Measures can be earned. Weighted.

Grade: 10 - 12
Prerequisite: Spanish I and 2, Passed College Placement Test, Parent & Teacher Approval
Graduation Requirement: Foreign Language
Semesters: 2
Credit: 1

AP Spanish 4 - Language
This course is offered to students who plan to prepare for the AP Spanish Literature examination. This course is intended for the language student who can read, write and speak Spanish at a high level of fluency and sophistication. The course assumes that the student is already a proficient reader and writer and already possesses solid grammatical and mechanical skills as well as a sound repertoire of vocabulary. Students continue to engage in intensive reading, writing and listening activities. Students may earn up to a total of 17 college hours by taking the AP examination and 2 Advanced Measures. Weighted.

Grade: 11 - 12
Prerequisite: Spanish I, 2 and AP Spanish 3, Teacher Approval
Graduation Requirement: Elective
Semesters: 2
Credit: 1

Fine Arts

Art 1
This course introduces students to the basic strands necessary to produce artwork. This course also allows students to analyze artistic styles and historical periods, develop a respect for the traditions and contributions of diverse cultures. Students can express their thoughts and ideas creatively through production of their artwork.

Grade: 9 - 12
Prerequisite: None
Graduation Requirement: Fine Arts
Semesters: 2
Credit: 1

Art 2
Students further develop their creative expression through original artworks. They develop and organize ideas from their environment and make informed judgments about personal artworks. Art history is explored.

Grade: 10 - 12
Prerequisite: Art 1
Graduation Requirement: Elective
Semesters: 2
Credit: 1

Art 3
Students further develop their creative expression through original artworks. They develop and organize ideas from their environment and make informed judgments about personal artworks. Art history is explored.

Grade: 11 - 12
Prerequisite: Art 2
Graduation Requirement: Elective
Semesters: 2
Credit: 1

Art 4
Students further develop their creative expression through original artworks. They develop and organize ideas from their environment and make informed judgments about personal artworks. Art history is explored.

Grade: 12
Prerequisite: Art 3
Graduation Requirement: Elective
Semesters: 2
Credit: 1

AP Studio Art: Drawing Portfolio 2-D & 3-D
Students will work with diverse media, styles, subjects, and content. AP Studio Art students create a portfolio of work to demonstrate the artistic skills and ideas that have developed, refined, and applied over the course of the year to produce visual compositions. In early May, students will submit their actual works and digital images of works; as well as an artistic statement in which they describe ideas investigated and explain how the ideas evolved as they created their body of work.

Grade: 11- 12
Prerequisite: Art 3 and must pass design, application, and evaluation
Graduation Requirement: Elective
Semesters: 2
Credit: 1

Theatre Arts 1
This course focuses/emphasizes the acting component. Students will study the principles and practices regarding the analysis and performance of various characters with an emphasis on the use of body and voice in creating characterizations.

Grade: 9 - 12
Prerequisite: None
Graduation Requirement: Fine Arts
Semesters: 2
Credit: 1

Theatre Arts 2
This course focuses/emphasizes the acting component. Students will study the principles and practices regarding the analysis and performance of various characters with an emphasis on the use of body and voice in creating characterizations.

Grade: 10 - 12
Prerequisite: Theatre Arts 1
Graduation Requirement: Elective
Semesters: 2
Credit: 1

Theatre Arts 3
This course focuses/emphasizes the acting component. Students will study the principles and practices regarding the analysis and performance of various characters with an emphasis on the use of body and voice in creating characterizations.

Grade: 11 - 12
Prerequisite: Theatre Arts 1 and 2
Graduation Requirement: Elective
Semesters: 2
Credit: 1

Fine Arts

Theatre Arts 4
This course focuses/emphasizes the acting component. Students will study the principles and practices regarding the analysis and performance of various characters with an emphasis on the use of body and voice in creating characterizations.

Grade: 12
Prerequisite: Theatre Arts 1, 2 and 3
Graduation Requirement: Fine Arts
Semesters: 2
Credit: 1

Dance I
Students learn introductory dance technique, history performance and choreography in ballet, jazz, hip hop, modern dance and social dance. Students will be required to perform in the Winter Show and the Spring Show at the end of each semester. Students will be required to purchase the required uniform for the class either from the dance teacher or on their own. Physical participation is required.

Grade: 9 - 12
Prerequisite: None
Graduation Requirement: Fine Arts or Physical Education
Semesters: 2
Credit: 1

Dance 3
Students will learn advanced levels of dance technique, history performance and choreography in ballet, jazz, hip hop, modern dance and social dance. Students will be required to perform in the Winter Show and the Spring Show at the end of each semester. Students will be required to purchase the required uniform for the class either from the dance teacher or on their own. Physical participation is required.

Grade: 11 - 12
Prerequisite: Dance 2
Graduation Requirement: Elective
Semesters: 2
Credit: 1

Drill Team
This course is ONLY for the current year Silver Dancer team members and managers. The course includes training and conditioning, works on flexibility, anaerobic and aerobic activity, cardio vascular endurance and strength. These goals will be achieved through training and precision dance in preparation for football halftime, pep rally, and competition performances.

Grade: 9 - 12
Prerequisite: MUST be on Silver Dancer Team
Graduation Requirement: Physical Education
Semesters: 2
Credit: 1

Dance 2
Students will learn intermediate levels of dance technique, history performance and choreography in ballet, jazz, hip hop, modern dance and social dance. Students will be required to perform in the Winter Show and the Spring Show at the end of each semester. Students will be required to purchase the required uniform for the class either from the dance teacher or on their own. Physical participation is required.

Grade: 10 - 12
Prerequisite: Dance 1 or 2 years of Dance in Junior High School
Graduation Requirement: Elective
Semesters: 2
Credit: 1

Dance 4
Students will learn elite levels of dance technique, history performance and choreography in ballet, jazz, hip hop, modern dance and social dance. Students will be required to perform in the Winter Show and the Spring Show at the end of each semester. Students will be required to purchase the required uniform for the class either from the dance teacher or on their own. Physical participation is required.

Grade: 12
Prerequisite: Dance 3
Graduation Requirement: Elective
Semesters: 2
Credit: 1

Fine Arts

Band 1
Band students develop their instrument playing techniques and learn basic music theory and critical listening skills. Students participate in various marching events, including halftime football game performances. Band students are required to participate in the daily class and in various after school and evening activities as assigned. Opportunities to travel to football games, community concerts, and other field trips are provided.

Grade: 9 - 12
Prerequisite: None
Graduation Requirement: Physical Education/Fine Arts
Semesters: 2
Credit: 1

Band 2
Band students develop their instrument playing techniques and learn intermediate music theory and critical listening skills. Students participate in various marching events, including halftime football game performances. Band students are required to participate in the daily class and in various after school and evening activities as assigned. Opportunities to travel to football games, community concerts, and other field trips are provided.

Grade: 10 - 12
Prerequisite: Band 1
Graduation Requirement: Physical Education/Fine Arts
Semesters: 2
Credit: 1

Band 3
Band students develop their instrument playing techniques and learn intermediate music theory and critical listening skills. Students participate in various marching events, including halftime football game performances. Band students are required to participate in the daily class and in various after school and evening activities as assigned. Opportunities to travel to football games, community concerts, and other field trips are provided.

Grade: 11 - 12
Prerequisite: Band 2
Graduation Requirement: Fine Arts/Elective
Semesters: 2
Credit: 1

Band 4
Band students develop their instrument playing techniques and learn advanced music theory and critical listening skills. Students participate in various marching events, including halftime football game performances. Band students are required to participate in the daily class and in various after school and evening activities as assigned. Opportunities to travel to football games, community concerts, and other field trips are provided.

Grade: 12
Prerequisite: Band 3
Graduation Requirement: Fine Arts/Elective
Semesters: 2
Credit: 1

Jazz Band 1-4
Jazz ensemble is designed to enrich the advanced band student's ability to perform music of the jazz idiom. Class emphasis consists of style development, improvisation, and contemporary trends of jazz.

Grade: 9 - 12
Prerequisite: Band Director Approval
Graduation Requirement: Fine Arts/Elective
Semesters: 2
Credit: 1

Principles & Elements of Floral Design
To be prepared in careers in floral design, students need to attain academic knowledge and skills as well as technical knowledge and skills related to horticultural systems and develop knowledge and skills regarding career opportunities to learn, reinforce, apply and transfer their knowledge and skills and technologies in a variety of settings. This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as to develop an understanding of management of floral enterprise. Through the analysis of artistic floral styles and historical periods, students develop respect for the traditions and contributions of diverse cultures.
Students respond to analyze floral design, thus contributing to the development of lifelong skills of making informed judgments and evaluations.

Grade: 10- 12
Prerequisite: None
Graduation Requirement: Fine Arts/Elective
Semesters: 2
Credit: 1

Fine Arts

Mariachi

Freshman Mariachi I-A FRM-I-A

Freshman students in their 1st year of Mariachi who demonstrated an advanced technical level during 8th grade

Freshman Mariachi I-B FRM-I-B

Freshman students in their 1st year of Mariachi who demonstrated an intermediate technical level during 8th grade

Sophomore Mariachi 2-A SOM-2-A

Sophomore students in their 2nd year of Mariachi/Instrumental ensemble who demonstrate an advanced technical level

Sophomore Mariachi 2-B SOM-2-B

Sophomore students in their 2nd year of Mariachi/Instrumental Ensemble who demonstrate an intermediate technical level

Junior Mariachi 3-A JRM-3-A

Junior students in their 3rd year of Mariachi/Instrumental Ensemble who demonstrate an intermediate technical level

Junior Mariachi 3-B JRM-3-B

Junior students in their 3rd year of Mariachi/Instrumental Ensemble who demonstrate an advanced level

Senior Mariachi 4-A SRM-4-A

Senior students in their 4th year of Mariachi/Instrumental Ensemble who demonstrate and advanced technical level

Senior Mariachi 4-B SRM-4-B

Senior students in their 4th year of Mariachi/Instrumental Ensemble who demonstrate an intermediate technical level

Grade: 9-12
Perquisite: Placement determined by audition
Course: All courses 2 semesters long
Credit: 1 Credit

JROTC Education

JROTC 1
This is a course in which cadets are taught a variety of subjects with emphasis on practical application. Core subjects include fundamentals of leadership, drill and ceremonies, Army customs and courtesies, personal appearance, standards of conduct, first aid, physical fitness, citizenship and military history. Students will participate in community service projects.

Grade: 9 - 12
Prerequisite: None
Graduation Requirement: Physical Education/Elective
Semesters: 2
Credit: 1

JROTC 2
This course builds on and reinforces the knowledge and skills learned in JROTC I. Cadets in JROTC II will receive increased instruction in basic leadership skills, oral communications, drill and ceremonies, physical fitness, training and basic map reading. Selected cadets will fill basic leadership positions in the organization.

Grade: 10 - 12
Prerequisite: JROTC 1
Graduation Requirement: Elective
Semesters: 2
Credit: 1

JROTC 3
This course introduces cadets to leadership duties and responsibilities of a military command and staff group. Cadets will also learn basic management skills in relation to individual staff functions. Selected cadets will fill basic staff positions or serve in intermediate leadership positions within the organization.

Grade: 11 - 12
Prerequisite: JROTC 2
Graduation Requirement: Elective
Semesters: 2
Credit: 1

JROTC 4
The primary emphasis for this course is advanced leadership study and/or application as senior leaders in the organization. Cadets will be assigned to primary duties as commanders and staff officers and will assist instructors in the day to day operation of the organization.

Grade: 12
Prerequisite: JROTC 3
Graduation Requirement: Elective
Semesters: 2
Credit: 1

JROTC Air Rifle Marksmanship and Military Drill
This elective course is for students who want advanced instruction in marksmanship and advanced military drill beyond the scope of the mandatory curriculum. This course teaches and reinforces air rifle marksmanship instruction in firearms safety, understanding the functions and proper operation of the equipment, practicing firing in the different military firing positions and utilizing education, concentration and practice to achieve the best results. Safety and discipline are stressed at each step. This course also teaches and reinforces the conduct of advanced military drills and ceremonies, including methods of instructing drill, teaching techniques, individual and CREDIT drill, manual of arms for infantry weapons (demilitarized) and various other aspects of drill. This course furthers the student's understanding of moving CREDITs from one place to another, aids in disciplinary training by instilling habits of precision and response to the leader's orders and provides for, through ceremonies, enhanced morale and a spirit of cohesion among cadets.

Grade: 10 - 12
Prerequisite: JROTC 1
Graduation Requirement: Local Elective
Semesters: 2
Credit: 1

Career and Technical Education

Alamo Academies

Applications are required in the spring for fall enrollment. Alamo Academies are two year programs for juniors and seniors, but seniors are eligible for a one year program in the Aerospace and Manufacturing Academy without certification. The Alamo Academies provide education, experience, and job opportunities for high school students looking to jump start their future. They are designed to provide two year training and internship programs that introduce qualified students to career opportunities in key industries while providing a seamless transition from high school to college to the workplace. Students who complete a two year program can earn up to 25+ college semester hours. Tuition is free for transferable college programs. Students must pass a college entrance exam to be eligible for the programs. Required test score requirements can be viewed at http://www.alamo.edu/academies/testing.htm. Students need to pass at least one of the three areas (all four areas for the Health Professions Academy). With four specialized academies to choose from, students can receive college level training in high wage occupations while completing high school. Transportation to and from the Academies is provided by Somerset ISD. Applications and admission criteria are also available at http://www.alamo.edu/academies/admission.htu.

Advanced Tech & Manufacturing Technology Academy
Course Description: Students explore specific career paths and acquire unique skills in manufacturing productions operations and facilities maintenance.
Course Hours: 7:30am to 10:00am daily
Credit: 3 Dual Credits per year
College Location: St. Phillips College Southwest Campus

Alamo Area Aerospace Academy
Course Description: Training in airframe and power plant mechanics for careers in aerospace maintenance.
Course Hours: 7:30am to 10:00am daily
Credit: 3 Dual Credits first year and 4 Dual Credits second year
College Location: St. Phillips College Southwest Campus

Diesel Technology Academy
Course Description: Students explore specific career paths and acquire hands-on learning experiences, job-specific training, paid internships and college credit coursework in diesel and construction equipment technology.
Course Hours: 7:30am to 10:00am daily
Credit: 1 Dual Credit during 1st year and 4 Dual credits during 2nd year
College Location: San Antonio College

Information Technology and Security Academy
Course Description: Technical training in basic computer science, information technology and security.
Course Hours: 7:30am to 10:00am daily
Credit: 3 Dual Credits per year
College Location: St. Phillips College Southwest Campus

Health Professions Academy
Course Description: Students start their pathway in a career in Nursing. Students must pass all parts of the TSI, must be CPR certified and pass background check.
Course Hours: 7:30am to 10:00am daily
Credit: 3 Dual Credits per year
College Location: San Antonio College

Career and Technical Education

ALAMO COLLEGES

ALAMO ACADEMIES

Aerospace Academy

1st Year Program of Studies
8 courses with total of 21 credit hours

Fall Semester		Credit
AERM 1201 *10-hr OSHA	Introduction to Aviation* *An overview of aviation maintenance.*	2
AERM 1315	Aviation Science *Fundamentals of mathematics, physics & drawing as they apply to aircraft principles & operations.*	3
AERM 1303	Shop Practice *Introduction to the correct use of hand tools and equipment & precision measurement; identification of aircraft hardware; & fabrication of fluid lines and tubing.*	3
	Fall Semester Total	**8**

Spring Semester		Credit
AERM 1208	Federal Aviation Regulations *A course in the use & understanding of the FAA & aircraft manufacturer's publications, forms & records.*	2
AERM 1205	Weight & Balance *An introduction to FAA required subjects relating to weighing of aircraft, performance of weight & balance calculations, & appropriate maintenance of record entries.*	2
AERM 1310	Ground Operations *An introduction course in fuels, servicing methods and procedures, aircraft movement, securing and operations of aircraft, external power equipment, aircraft cleaning, and corrosion control.*	3
POFT 1220	Job Search Skills *A course to provide students with necessary skills to seek & obtain employment in business & industry.*	2
	Spring Semester Total	**9**

Summer Semester		Credit
AERM 2486	Internship: Aircraft Mechanics & Aircraft Maintenance Technology/Technician *Practical, general workplace training supported by an individualized learning plan.*	4
	Summer Total	**4**
	Year 1 Program Total	**21**

Occupational Skills Award
Aircraft Technology (OSA)
(5 courses, 13 hours)

2nd Year Program of Studies
4 courses with total of 11 or 12 credit hours

Fall Semester		Credit
AERM 1414	Basic Electricity *A study of aircraft electrical systems and their requirements.*	4
AERM 1254	Aircraft Composite *A study of the inspection & repair of composite, Fiberglass, honeycomb, and laminated structural materials.*	2
	Fall Semester Total	**6**

Spring Semester		Credit
	Aircraft Structures Mechanic	
AERM 1241	Wood, Fabric & Finishes *A course in the use & care of various covering materials, finishes, & wood structures including approved methods and procedures.*	2
AERM 1352	Aircraft Sheet Metal *A course in inspection & repair of sheet metal structures.*	3
	Spring Semester Total	**5**
	Year 2 Program Total	**11**
	Or	
	Aircraft Turbine Mechanic	
AERM 1351	Aircraft Turbine Engine Theory *Theory, history & servicing of turbine engines.*	3
AERM 2351	Aircraft Turbine Engine Overhaul *Topics address inspection, disassembly, re-assembly & replacement of gas turbine engines, sections, & components as well as operational troubleshooting & analysis.*	3
	Spring Semester Total	**6**
	Year 2 Program Total	**12**

Level I Certificate of Completion

Aircraft Structures Mechanic or **Aircraft Turbine Mechanic**

Two Year Program of Studies: 12 Courses totaling 32 (Structures) or 33 (Turbine) credit hours

Career and Technical Education

Aerospace Academy

Level I Certificate of Completion
Aircraft Structures Mechanic

ASSOCIATE OF APPLIED SCIENCES

Aircraft Technician Airframe

Semester 1		Credit
ENGL 1301	Composition I *or other**	3
MATH 1333	Contemporary Mathematics II *or other**	3
PHYS 1305	Introductory to Physics I Lecture *or other**	3
ECON 1301	Introduction to Economics *or other**	3
ARTS 2326	Sculpture I *or other**	3
	1st Semester Total	15

Semester 2		Credit
AERM 1205	Weight & Balance	2
AERM 1208	Federal Aviation Regulations	2
AERM 1310	Ground Operations	3
AERM 1303	Shop Practices	3
AERM 1315	Aviation Science	3
AERM 1414	Basic Electricity	4
AERM 1241	Wood, Fabric & Finishes	2
	2nd Semester Total	19

Semester 3		Credit
AERM 1243	Instruments & Navigation/Communication	2
AERM 2231	Airframe Inspection	2
AERM 1345	Aircraft Electrical Systems	3
	3rd Semester Total	7

Semester 4		Credit
AERM 1449	Hydraulic, Pneumatic, & Fuel Systems	4
AERM 1350	Landing Gear Systems	3
AERM 1254	Aircraft Composites	2
AERM 1253	Aircraft Welding	2
AERM 1352	Aircraft Sheet Metal	3
AERM 1347	Aircraft Auxiliary Systems	3
AERM 2233	Assembly & Rigging	2
	4th Semester Total	19
	Program Total	60

DC/AA: 24 Total AAS Hours: 60

Hours needed Post DC/AA: 36 General Academics: 15
Specific Hours: 21

Level I Certificate of Completion
Aircraft Turbine Mechanic

ASSOCIATE OF APPLIED SCIENCES

Aircraft Technician Powerplant

Semester 1		Credit
ENGL 1301	Composition I *or other**	3
MATH 1333	Contemporary Mathematics II *or other**	3
PHYS 1305	Introductory to Physics I Lecture *or other**	3
ECON 1301	Introduction to Economics *or other**	3
ARTS 2326	Sculpture I *or other**	3
	1st Semester Total	15

Semester 2		Credit
AERM 1205	Weight & Balance	2
AERM 1208	Federal Aviation Regulations	2
AERM 1310	Ground Operations	3
AERM 1303	Shop Practices	3
AERM 1315	Aviation Science	3
AERM 1414	Basic Electricity	4
AERM 1444	Aircraft Reciprocating Engines	4
	2nd Semester Total	21

Semester 3		Credit
AERM 2352	Aircraft Powerplant Inspection	3
	3rd Semester Total	3

Semester 4		Credit
AERM 2547	Aircraft Reciprocating Overhaul	5
AERM 1340	Aircraft Propellers	3
AERM 1351	Aircraft Turbine Engine Theory	3
AERM 2351	Aircraft Turbine Engine Overhaul	3
AERM 1456	Powerplant Electrical	4
AERM 1357	Fuel Metering & Induction Systems	3
	4th Semester Total	21
	Program Total	60

DC/AA: 23 Total AAS Hours: 60

Hours needed Post DC/AA: 37 General Academics: 15
Specific Hours: 22

* See St. Philip's College degree description for more information: http://myspccatalog.alamo.edu/

Career and Technical Education

ALAMO COLLEGES

ALAMO ACADEMIES

Information Technology and Security Academy

1st Year Program of Studies
5 courses with total of 18 credit hours

Fall Semester		Credit
ITSC 1305	Intro to PC Operating Systems *Introduction to personal computer operating systems including installation, configuration, file management, memory & storage management, control of peripheral devices & use of utilities.*	3
ITSC 1425 *Testout Certification PC Pro	Personal Computer Hardware* *Current personal computer hardware including assembly, upgrading, setup, configuration, and troubleshooting.*	4
	Fall Semester Total	**7**

Spring Semester		Credit
ITNW 1425 *Testout Certification Network Pro	Fundamentals of Networking Technologies* *Introduction to architecture, structure, functions, components & models of the internet. Covers principles and structures of IP addressing, Ethernet, media & operations.*	4
ITSC 2439	Personal Computer Help Desk Support *Diagnosis and solution of user hardware and software related problems with on-the-job and/or simulated projects.*	4
	Spring Semester Total	**8**

Summer Semester		Credit
ITSC 2364	Practicum: Computer & Information Sciences, General *Practical, general workplace training supported by an individualized learning plan.*	3
	Summer Total	**3**
	Year 1 Program Total	**18**

Level I Certificate of Completion
Computer Desktop Support Technician

2nd Year Program of Studies
4 courses with total of 12 credit hours

Fall Semester		Credit
ITSC 1316 *Testout Certification LINUX Pro	LINUX Installation & Configuration* *Introduction to the UNIX operation system including multi-user concepts, terminal emulation, use of system editor, basic UNIX commands, & writing script files. Includes introductory system management concepts.*	3
ITSY 1342 *Testout Certification Security Pro	Information Technology Security* *Instruction in security for network hardware, software, and data including physical security, backup procedures, relevant tools, encryption, and protection from viruses.*	3
	Fall Semester Total	**6**

Spring Semester		Credit
ITSE 1302	Computer Programming *Introduction to computer programming with emphasis on the fundamentals of design, development, testing, implementation, and documentation. Includes language syntax, data and file structures, input/output devices, and files.*	3
ITSE 1311	Beginning Web Programming *Skill development in web page programming including mark-up and scripting languages.*	3
	Spring Semester Total	**6**
	Year 2 Program Total	**12**

Level I Certificate of Completion
Information Technology & Security

Two Year Program of Studies: 9 Courses totaling 30 credit hours

Career and Technical Education

Information Technology and Security Academy

Level I Certificate of Completion
Computer Desktop Support Technician

Level I Certificate of Completion
Information Technology & Security

ASSOCIATE OF APPLIED SCIENCES

Computer Support Specialist

Semester 1		Credit
ITSC 1301	Introduction to Computers *or other**	3
ITSC 1309	Integrated Software Applications	3
ITSC 1305	Introduction to PC Operating Systems *or other**	3
ENGL 1301	Composition I	3
	Select Additional communication (90) Core	3
	1st Semester Total	15

Semester 2		Credit
ITNW 1425	Fundamentals of Networking Technologies *or other**	4
ITSC 1425	Personal Computer Hardware	4
ITNW 1454	Implementing and Supporting Servers	4
ITSC 1316	LINUX Installation and Configuration	3
	2nd Semester Total	15

Semester 3		Credit
	Select Language, Philosophy & Culture (40) *or other**	3
ITSE 1302	Computer Programming *or other**	3
	3rd Semester Total	6

Semester 4		Credit
ITSC 2439	Personal Computer Help Desk Support	4
ITSE 1311	Beginning Web Programming	3
ITSC 2325	Advanced LINUX	3
ITSC 2321	Integrated Software Applications II	3
	4th Semester Total	13

Semester 5		Credit
ITSY 1342	Information Technology Security *or other*	3
	Select Mathematics (20) Core	3
	Select Social & Behavioral Science (80) Core	3
ITSC 2264	Practicum Computer & Information Sciences	2
	5th Semester Total	11
	Program Total	60

DC/ITSA: 29 Total AAS Hours: 60

Hours needed Post DC/ITSA: 31 General Academics: 15
Specific Hours: 45

* See San Antonio College degree description for more information: http://mysaccatalog.alamo.edu/

Career and Technical Education

ALAMO COLLEGES

ALAMO ACADEMIES

Advanced Technology and Manufacturing Academy

1st Year Program of Studies
6 courses with total of 19 credit hours

Fall Semester		Credit
TECM 1303	Technical Calculations *Specific mathematical calculations required by business and industry. Includes whole numbers, fractions, mixed numbers, decimals, %, ratios, and proportions. Also, covers converting to different units of measure (standard and/or metric).*	3
MCHN 1320 *10-Hour OSHA	Precision Tools & Measurements* *Introduction to modern science of dimensional metrology.*	3
MCHN 1270 *MSSC Safety Certification	MSSC* *Manufacturing Skill Standards Council Certified production Technician Safety & Quality Modules.*	2
	Fall Semester Total	**8**

Spring Semester		Credit
MCHN 1302	Print Reading for Machine Trade *A review of applied math models and study of different blueprints, with emphasis on machine blueprints and the application of each.*	3
MCHN 1438	Basic Machine Shop I *An introduction course that assists the student in understanding the machinist occupation in industry.*	4
	Spring Semester Total	**7**

Summer Semester		Credit
MCHN 2486	Internship: Machine Tool Technology/Machinist *Practical, general workplace training supported by an individualized learning plan.*	4
	Summer Total	**4**
	Year 1 Program Total	**19**

Level I Certificate of Completion
Manufacturing Skills Trade Helper

2nd Year Program of Studies
5 courses with total of 15 credit hours

Fall Semester		Credit
INMT 2303	Pumps, Compressors & Mechanical Drives *A study of the theory and operations of various types of pumps and compressors.*	3
ELPT 1319	Fundamentals of Electricity I *Basic theory and practice of electrical circuits.*	3
QCTC 1243 *MSSC Quality Certification	Quality Assurance* *Principles & application designed to introduce quality assurance.*	2
	Fall Semester Total	**8**

Spring Semester		Credit
MCHN 1426	Introduction to Computer-Aided Manufacturing (CAM) *A study of Computer Assisted Manufacturing (CAM) Systems. Software is used to develop applications for manufacturing.*	4
RBTC 1305	Robotic Fundamentals *An introduction to flexible automation.*	3
	Spring Semester Total	**7**
	Year 2 Program Total	**15**

Level I Certificate of Completion
Production Tool Operator/Maintenance Assistant

Two Year Program of Studies: 11 Courses totaling 34 credit hours

Career and Technical Education

Advanced Technology and Manufacturing Academy

Level I Certificate of Completion
Manufacturing Skills Trade Helper

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Level I Certificate of Completion
Tool Operator/Maintenance Assistant

ASSOCIATE OF APPLIED SCIENCES
Manufacturing Operations Technician

Semester 1		Credit
MCHN 1438	Basic Machine Shop I	4
MCHN 1320	Precision Tools & Measurement	3
MATH 1333	Contemporary Mathematics II *or other**	3
INMT 2303	Pumps, Compression & Mechanical Drives	3
ITSC 2303	Introduction to Computers I *or other**	3
	1st Semester Total	16

Semester 2		Credit
ENGL 1301	Composition I *or other**	3
ELPT 1319	Fundamentals of Electricity I	3
ELMT 1305	Basic Fluid Power	3
PHYS 1305	Introductory Physics I Lecture *or other**	3
RBTC 1305	Robotic Fundamentals	3
	2nd Semester Total	15

Semester 3		Credit
RBTC 2347	Computer Integrated Manufacturing	3
WLDG 1425	Intro to Oxy-Fuel Welding & Cutting	4
RBTC 1347	Electromechanical Devices	3
ECON 1301	Introduction to Economics *or other**	3
	3rd Semester Total	13

Semester 4		Credit
MCHN 1302	Print Reading for Machining Trade	3
ELPT 2419	Programmable Logic Controllers I	4
ELPT 1441	Motor Control	4
MUSI 1306	Music Appreciation *or other**	3
MCHN 2266	Practicum (or field experience) Machine Tool Technology/Machinist	2
	4th Semester Total	16
	Program Total	60

DC/ATMA: 21 Total AAS Hours: 60

Hours needed Post DC/ATMA: 39 General Academics: 18
Specific Hours: 21

ASSOCIATE OF APPLIED SCIENCES
CNC Manufacturing Technician

Semester 1		Credit
MCHN 1302	Print Reading for Machining Trade	3
MCHN 1438	Basic Machine Shop I	4
MATH 1332	Contemporary Math I *or other**	3
MCHN 1320	Precision Tools & Measurement	3
ITSC 1301	Introduction to Computers *or other**	3
	1st Semester Total	16

Semester 2		Credit
ENGL 1301	Composition I *or other**	3
MCHN 2303	Fundamentals of Computer Numerical Controlled (CNC) Machine Controls	3
QCTC 1243	Quality Assurance	2
PHYS 1305	Introductory to Physics I Lecture *or other**	3
MCHN 1426	Intro to Computer-Aided Manufacturing (CAM)	4
	2nd Semester Total	15

Semester 3		Credit
ECON 1301	Introduction to Economics *or other**	3
MCHN 2431	Operation of CNC Turning Centers	4
MCHN 2434	Operation of CNC Machining Centers	4
MCHN 1330	Statistical Process Control for Machinist	3
MUSI 1306	Music Appreciation or other*	3
	3rd Semester Total	17

Semester 4		Credit
MCHN 2435	Advanced CNC Machining	4
MCHN 1352	Intermediate Machining I	3
RBTC 1305	Robotic Fundamentals	3
MCHN 2266	Practicum (or field experience) Machine Tool Technology/Machinist	2
	4th Semester Total	12
	Program Total	60

DC/ATMA: 21 Total AAS Hours: 60

Hours needed Post DC/ATMA: 39 General Academics: 18
Specific Hours: 21

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Career and Technical Education

ALAMO COLLEGES

ALAMO ACADEMIES

Health Professions Academy

1st Year Program of Studies
4 courses with total of 14 credit hours

Fall Semester		Credit
BIOL 2401	Human Anatomy & Physiology I *Studying structure & function of cells, tissues, & body systems with emphasis on integumentary, skeletal, muscular, nervous systems including the special senses.*	4
ENGL 1301	Composition I *Focusing on the principles of effective oral and written communication, critical reading & the development of academic writing.*	3
	Fall Semester Total	**7**

Spring Semester		Credit
BIOL 2402	Human Anatomy & Physiology II *Studying the structure & function of the endocrine, digestive, respiratory, cardiovascular, lymphatic, genitourinary & reproductive systems.*	4
ENGL 1302	Composition II *Refining skills in academic writing, critical thinking, analysis of literature and research & documentation.*	3
	Spring Semester Total	**7**
	Year 1 Program Total	**14**

2nd Year Program of Studies
5 courses with total of 16 credit hours

Fall Semester		Credit
BIOL 2420	Microbiology for Nursing & Allied Health *Introduction to historical concepts of the nature of microorganisms, microbial diversity, the importance of microorganisms and acellular agents in the biosphere, and their roles in human & animal diseases.*	4
PSYC 2301	General Psychology *Introduction of the study of behavior and the factors that determine & affect behavior and mental processes.*	3
	Fall Semester Total	**7**

Spring Semester		Credit
PHIL 2306	Introduction to Ethics *Classical & contemporary theories concerning the good life, human conduct in society, and moral & ethical standards.*	3
PSYC 2314	Lifespan Growth & Development *Study of the relationship of the physical, emotional, social and mental factors of growth & development of the individual throughout the lifespan.*	3
MDCA 1313	Medical Terminology *The study and practical application of a medical vocabulary system. It includes structure, recognition, analysis, definition, spelling, pronunciation, and combination of medical terms from prefixes, suffixes, roots, and combining forms.*	3
	Spring Semester Total	**9**
	Year 2 Program Total	**16**

All classes transferrable into the Nursing Program at San Antonio College

Two Year Program of Studies: 9 Courses totaling 30 credit hours

Health Professions Academy

Prerequisites transferable to Allied Health Career Pathways

ASSOCIATE OF APPLIED SCIENCES

Nursing

Semester 1		Credit
BIOL 2401	Human Anatomy & Physiology I	4
PSYC 2301	General Psychology	3
PHIL 2306	Introduction to Ethics	3
ENGL 1301	Composition I	3
	1st Semester Total	13

Semester 2		Credit
BIOL 2402	Human Anatomy & Physiology II	4
PSYC 2314	Lifespan Growth & Development	3
BIOL 2420	Microbiology for Nursing & Allied Health *or other**	4
	2nd Semester Total	11
	Program Total	24

Semester 3		Credit
RNSG 1128	Introduction to Health Care Concepts	1
RNSG 1125	Professional Nursing Concepts I	1
RNSG 1216	Professional Nursing Competencies	2
RNSG 1430	Health Care Concepts I	4
RSNG 1161	Clinical-RN: Health Care Concepts I	1
	3rd Semester Total	9

Semester 4		Credit
RNSG 1126	Professional Nursing Concepts II	1
RNSG 1533	Health Care Concepts II	5
RNSG 2362	Clinical-RN: Health Care Concepts II	3
	4th Semester Total	9

Semester 5		Credit
RNSG 1137	Professional Nursing Concepts III	1
RNSG 1538	Health Care Concepts III	5
RNSG 2363	Clinical-RN: Health Care Concepts III	3
	5th Semester Total	9

Semester 6		Credit
RNSG 2138	Professional Nursing Concepts IV	1
RNSG 2539	Health Care Concepts IV	5
RNSG 2360	Clinical-RN: Health Care Concepts IV	3
	6th Semester Total	9
	Program Total	36

DC/HPA: 24 Total AAS Hours: 60

Hours needed Post DC/HPA: 36 General Academics: 24
Specific Hours: 36

Career and Technical Education

ALAMO COLLEGES

ALAMO ACADEMIES

Heavy Equipment Academy

1st Year Program of Studies
5 courses with total of 18 credit hours

Fall Semester		Credit
DEMR 1401	Shop Safety and Procedures *A study of shop safety, rules, basic shop tools, and test equipment.*	4
DEMR 1406 *HOLT CAT ProTech Engine D&A DE 101	Diesel Engines *An introduction to the basic principles of diesel engines and systems.*	4
	Fall Semester Total	**8**

Spring Semester		Credit
DEMR 1405 *10-Hour OSHA *HOLT CAT ProTech Electricity TG01	Basic Electrical Systems* *A review of applied math models and study of different blueprints, with emphasis on machine blueprints and the application of each.*	4
DEMR 1416 *HOLT CAT ProTech Hyraulics TM 28	Basic Hydraulics* *Fundamentals of hydraulics including components and related systems*	4
	Spring Semester Total	**8**

Summer Semester		Credit
DEMR 2288	Internship: Diesel Mechanics Technology/Technician *Practical, general workplace training supported by an individualized learning plan.*	2
	Summer Total	**2**
	Year 1 Program Total	**18**

Level I Certificate of Completion
Diesel Heavy Equipment

2nd Year Program of Studies
4 courses with total of 16 credit hours

Fall Semester		Credit
DEMR 1329	Preventative Maintenance *Introduction to proper servicing practices. Content includes record keeping and condition of major systems.*	3
DEMR 2432	Electronic Controls *Advanced skills in diagnostic and programming techniques of electronic control systems.*	4
	Fall Semester Total	**7**

Spring Semester		Credit
DEMR 2434 *HOLTCAT ProTech Electronic Troubleshooting DE205	Advanced Diesel Tune-Up and Troubleshooting* *Advanced concepts & skills required for tune-up & troubleshooting procedures of diesel engines. Emphasis on the science of diagnostics with a common sense approach.*	4
DEMR 2435	Advanced Hydraulics *Advanced study of hydraulic systems & components including diagnostics & testing of hydraulic systems.*	4
	Spring Semester Total	**8**
	Year 2 Program Total	**15**

Level I Certificate of Completion
Advanced Diesel Heavy Equipment

Two Year Program of Studies: 9 Courses totaling 33 credit hours

Heavy Equipment Academy

Level I Certificate of Completion
Diesel Heavy Equipment

ASSOCIATE OF APPLIED SCIENCES

Diesel Construction Equipment Technician

Semester 1		Credit
DEMR 1405	Basic Electrical Systems	4
DEMR 1416	Basic Hydraulics	4
DEMR 1329	Preventative Maintenance	3
MATH 1333	Contemporary Mathematics II *or other*	3
	1st Semester Total	14

Semester 2		Credit
DEMR 1417	Basic Brake Systems	4
DEMR 1406	Diesel Engine	4
ITSC 1301	Introduction to Computers	3
PHYS 1305	Introductory to Physics I Lecture	3
	2nd Semester Total	14

Semester 3		Credit
DEMR 2432	Electronic Controls	4
DEMR 1423	Heating, Ventilation, & Air Conditioning	4
DEMR 2435	Advanced Hydraulics	4
ENGL 1301	Composition I	3
	Select Social & Behavioral Sciences (80) Core	3
	3rd Semester Total	18

Semester 4		Credit
DEMR 2434	Advanced Diesel Tune-Up & Troubleshooting	4
HEMR 1401	Tracks & Undercarriages	4
DEMR 2366	Practicum: Diesel Mechanics Technology Technician	3
	Select Language, Philosophy & Culture (40) Core *or other**	3
	4th Semester Total	14
	Program Total	60

DC/HEA: 27 Total AAS Hours: 60

Hours needed Post DC/HEA: 33 General Academics: 15
Specific Hours: 15

* See St. Philip's College degree description for more information: http://myspccatalog.alamo.edu/

Business and Industry Endorsement Courses

ANIMAL SCIENCE

Principles of Agriculture, Food, and Natural Resources: 9-12th
Provides introductory information for careers in agriculture, food, and natural resources.--This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for success, students need to have opportunities to learn, reinforce experience, apply, and transfer their knowledge and skills in a variety of settings.

Livestock Production: 10th
Provides information in the field of animal science--Students need to attain academic skills and knowledge related to animal systems in the workplace, and develop knowledge and skills regarding career opportunities to learn, reinforce, apply, and transfer, their knowledge and skills in variety of settings. Animal species to be addressed in this course may include, but are not limited to; beef cattle, dairy cattle, swine, sheep, goats, and poultry.

Wildlife, Fisheries, and Ecology Management:
Recommended for : 11-12th
Wildlife, Fisheries, and Ecology Management examines the management of game and non-game wildlife species, fish, and aquacrops and their ecological needs as related to current agricultural practices. To prepare for careers in natural resource systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

Veterinary Medical Applications: Recommended for 11 & 12th
Prerequisite: Wildlife, Fisheries, and Ecology Management, or Livestock Production.
Veterinary Medical Applications covers topics relating to veterinary practices, including practices for large and small animal species. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings.

Practicum in Agricultural Food and Natural Resources
2-3 credits 12th
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 Agriculture, Food, and Natural Resources cluster. The practicum is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories.

AGRICULTURAL MECHANICS

Principles of Agriculture, Food, and Natural Resources 9th
Provides introductory information for careers in agriculture, food, and natural resources.--This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for success, students need to have opportunities to learn, reinforce experience, apply, and transfer their knowledge and skills in a variety of settings.

Agricultural Mechanics and Metal Technologies: 10-12h
To be prepared for careers in agricultural power, structural, and technical systems, students need to attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. This course is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal techniques.

Agricultural Power Systems: 2 credits 10 - 12th
This course will prepare students for careers in mechanized agriculture and technical systems, and attain knowledge and skills related to agricultural facilities design and fabrication. Students explore career opportunities, entry requirements, and industry expectations. To prepare for success, students reinforce, apply, and transfer their academic knowledge and technical skills in a variety of settings.

Agricultural Structures Design & Fabrication: 11-12th
In Agricultural Structures Design and Fabrication, students will explore career opportunities, entry requirements, and industry expectations. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural structures design and fabrication.

Practicum in Agricultural Food and Natural Resources
2-3 credits 12th
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 Agriculture, Food, and Natural Resources cluster. The practicum is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories.

AUTOMOTIVE TECHNOLOGY

Automotive Basics: 9-12th
Students gain knowledge and skills in the safe application, design, production, and assessment of products, services, and systems.–Includes the history, laws and regulations, and common practices used in the logistics of warehousing and transportation systems. Students should apply knowledge and skills in the application, design, and production of technology as it relates to the transportation, distribution, and logistics industries. This course allows students to reinforce, apply, and transfer their academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings.

Automotive Technology 2 credits 10 -12th
Course study includes: shop safety, tool safety, auto lift safety and procedures, floor jack and jack stand procedures, tire and wheel service, oil change and maintenance, steering and suspension report, basic brake repair and service, air tool safety and procedure, along with other types of basic auto repair services.

Business and Industry Endorsement Courses

Automotive Technology 2 2 credits 11- 12th
Students will learn more advanced auto repair procedures, along with diagnosing and problem solving activities. Course study will include: diagnosing and repair of cooling systems. An employability course that requires students to learn skills need to succeed in automotive technology field, Students learn time management, problem solving, teamwork, critical thinking, reading, writing, communication,. Confidence, and self motivation.

Practicum of Transportation Systems 2 –3 credits 12th
In this course, students will apply what they have learned in the shop and class. This course allows the student to use their skills to become more acclimated to repair work.

BUSINESS / MARKETING

Principles of Business, Marketing, Finance: 9-12th
This course will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing and finance. Students will analyze the sale process and financial management principles will gain knowledge and skills in economics and private enterprise systems, the impact of a global business, marketing goods and services, advertising and product pricing.

Business Management: 10-12th
Students recognize, evaluate, and prepare for rapidly evolving global business environment that requires flexibility and adaptability. Students analyze the primary functions of management and leadership, which are planning, organizing, staffing, directing or leading, and controlling. Topics will incorporate social responsibility of business and industry. Students develop a foundation in the economical, financial, technological, international, social, and ethical aspects of business to become competent managers, employees, and entrepreneurs. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate management decisions.

Business Law : 11 - 12 th
Students recognize, evaluate, and prepare for rapidly evolving global business environment that requires flexibility and adaptability. Students analyze the primary functions of management and leadership, which are planning, organizing, staffing, directing or leading, and controlling. Topics will incorporate social responsibility of business and industry. Students develop a foundation in the economical, financial, technological, international, social, and ethical aspects of business to become competent managers, employees, and entrepreneurs. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate human resource decisions.

Practicum in Business Management: 2-3 credits 12th
This course is designed to give students supervised practical application of previously studied knowledge and skills. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society to make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies. Students develop a foundation in the economical, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs.

CAREER PREPARATION

THE FINAL COURSE IN ANY SEQUENCE MAY BE CAREER PREPARATION IF THE COURSE ADDRESSES A FIELD FROM A CLUSTER LISTEN IN THE CLAUSES OF ENDORSEMENT.

Career Preparation I 12th
Extended Career Preparation provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry 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.

CULINARY

Intro to Culinary: 9-10th
This course 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. Students will receive 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 and is offered as a classroom and laboratory-based course.

Culinary Arts 2 credits 11-12th
Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification, a Texas culinary specialist certification, or any other appropriate industry certification. This course may be offered as a laboratory-based or internship course. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Advanced Culinary Arts 2 credits 11-12th
This course will extend course and enhance skills introduced in Culinary Arts by in-depth instruction of industry-driven standards in order to prepare students for success in higher education, certification, and/or immediate employment. The students will demonstrate professional standards/employability skills as required by business and industry. Students will demonstrate and practice the basic procedures for the production of pastry crust, pastry dough, cookie dough, cakes, frosting, fillings, and custards. Students will analyze the components of cost control in food service operation and develop a plan to manage cost.

Practicum in Culinary Arts 2-3 credits 12th
This course is a unique practicum that provides occupationally specific opportunities for students to participate in a learning experience and that combines classroom instruction with actual business and industry career experiences.

Business and Industry Endorsement Courses

AUDIO VISUAL TECHONLOGY AND COMMUNNICATIONS

Principles of Arts, A/V Technology and Communications: 9th
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.

Audio/Video Production 10-12th
This course introduces fundamental audio/video production concepts and techniques in a hands-on approach. Students will use high definition cameras and will be introduced to lighting, sound, and editing with emphasis of the course will be on developing technical skills.

Audio/Video Production 2/Audio/Vido Production 2 Lab 2 credits 11-12th
Audio/Video Technology, and Communications career cluster, students will be expected to develop advanced understanding of the industry with a focus on applying pre-production, production & post-production audio & video activities in a studio environment. Instruction may be delivered from a lab-based classroom experiences or career preparation opportunities.

Practicum in A/V Production 2 –3 credits 12th
Students will develop advanced technical knowledge & skills needed for success in this career cluster. Students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production & post-production audio and video activities in a studio environment. Instructions may be delivered through a lab-based classroom experiences or career preparation activities.

Graphic Design and Illustration 1 10-12th
Students will apply technology applications and expected to use personal information management, email, internet, writing and publishing, and presentation applications for art and design projects. Students are expected to discuss and apply copyright laws in relation to fair use and acquisition. Research will take place of the history of visual arts and design and understand the characteristics in artwork from a variety of cultures. Students will design a process to create original two-and three -dimensional projects.

Graphic and Design Illustration 2/Graphic and Design Illustration 2 Lab 2 credits 11-12th
Students will develop an advanced understanding of graphic design and illustration. The student will be expected to: interpret, evaluate, and justify design decisions, participate in oral and written critiques by applying a critical method of evaluation; and identify and apply art elements and principles to design and illustrations.

Practicum in Graphic Design and Illustration 2—3 credits 12th
Students will maintain a career portfolio to document information such as work experiences, licenses, certifications, and work samples. Students will be implementing advanced professional communication strategies, problem solving methods, technology applications, cyber safety procedures, and advanced knowledge of design systems.

MANUFACTURING

Introduction to Welding: 10-12th
This course provides the knowledge, skills, and technologies required for employment required for employment in metal technology systems. This may also address a variety of materials in addition to metal such as plastics, ceramics, and woods. Students develop knowledge and skills related to these systems to apply them to personal and career development.

Welding 1 2 credits 10-12th
Rapid advances in technology have created new career opportunities and demands in many industries. Welding provides the knowledge, skills, and technologies required for employment in metal technology systems. Students develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success.

Welding 2 2 credits 11- 12th
Advanced Welding builds on knowledge and skills developed in Welding. Students will develop advanced welding concepts and skills as they relate to personal and career development. This course integrates academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

Practicum in Manufacturing 2 credits 12th
The practicum 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.

COMPUTER INTEGRATED MANUFACTURING

Computer Integrated Manufacturing 10—12th
Students discover and explore manufacturing processes, product design, robotics and automation, and then they apply what they have learned to design solutions to real-world manufacturing problems.

Diversified Manufacturing 10—12th
Students discover and explore manufacturing processes, product design, robotics and automation, and then they apply what they have learned to design solutions to real-world manufacturing problems.

Public Service Endorsement Courses

COSMETOLOGY

Principles of Business

Principles of Business will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing and finance. Students will analyze the sale process and financial management principles will gain knowledge and skills in economics and private enterprise systems, the impact of a global business, marketing goods and services, advertising and product pricing.

Principles of Health Science

Principles of Health Science provides an overview of therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. The health care industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students should identify the employment opportunities, technology and safety requirements of the system. Students are expected to apply the knowledge and skills necessary to pursue a health science career through further education and employment. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities. Students are expected to employ their ethical and legal responsibilities and limitations and understand the implications of their actions.

Introduction to Cosmetology 10th

Students explore areas such as bacteriology, sterilization and sanitation, hair styling, manicuring, shampooing and the principles of hair cutting, hair styling, hair coloring, skin care, and facial makeup. The student researches careers in the personal care services industry. To prepare for success, students must have skills relative to this industry, as well as academic knowledge and skills. This program allows students to begin the process of accumulating hours for a total of 1000 hours upon completion of program. Students planning to enroll in this program must purchase a $25.00 permit from the Texas Department of Licensing and Regulation for the required permit the first week of instructions.

Cosmetology 1 2 credits 11th

This course begins preparation for the State Board Operator Licensure in the field of Cosmetology. Instruction includes rules and regulations of Texas Department of Licensing and Regulation Handbook, haircutting, hairstyling, hair coloring, manicures, and pedicures, artificial nails, permanent waving, chemical hair relaxing, facials, massage, and anatomy and physiology. This program is a continuation of Intro to Cosmetology. As students enter their junior year they may receive certifications in the areas of make-up application, micro-derm abrasions, etc. Students will continue accruing clock hours towards the 1,000 hours needed to complete the program for certification.

Cosmetology 2 3 credits 12th

This course continues preparation for the State Board Operator Licensure in the field of Cosmetology. Instructions includes rules and regulations of the Texas Department of Licensing and Regulation Handbook, haircutting, hairstyling, hair coloring, manicures, pedicures, artificial nails, permanent waving, chemical hair relaxing, facials, massage, and anatomy and physiology, salon management, and product sales. Students' clientele consists of students, family, friends, and the general public. To receive credit for this course, the student must have completed all practical applications and be scheduled to take the Texas Department of Licensing and Regulation exam for cosmetologist. Upon passing the state board exams, the student will be a professional licensed cosmetologist in the state of Texas.

JROTC

JROTC I

This is a course in which cadets are taught a variety of subjects with emphasis on practical application. Core subjects include fundamentals of leadership, drill and ceremonies, Army customs and courtesies, personal appearance, standards of conduct, first aid, physical fitness, citizenship and military history. Students will participate in community service projects.

Grade: 9 - 12
Prerequisite: None
Graduation Requirement: Physical Education/Elective
Semesters: 2
Credit: 1

JROTC 2

This course builds on and reinforces the knowledge and skills learned in JROTC I. Cadets in JROTC II will receive increased instruction in basic leadership skills, oral communications, drill and ceremonies, physical fitness, training and basic map reading. Selected cadets will fill basic leadership positions in the organization.

Grade: 10 - 12
Prerequisite: JROTC I
Graduation Requirement: Elective
Semesters: 2
Credit: 1

JROTC 3

This course introduces cadets to leadership duties and responsibilities of a military command and staff group. Cadets will also learn basic management skills in relation to individual staff functions. Selected cadets will fill basic staff positions or serve in intermediate leadership positions within the organization.

Grade: 11 - 12
Prerequisite: JROTC 2
Graduation Requirement: Elective
Semesters: 2
Credit: 1

JROTC 4

The primary emphasis for this course is advanced leadership study and/or application as senior leaders in the organization. Cadets will be assigned to primary duties as commanders and staff officers and will assist instructors in the day to day operation of the organization

Grade: 12
Prerequisite: JROTC 3
Graduation Requirement: Elective
Semesters: 2
Credit: 1

Public Service Endorsement Courses

JROTC Air Rifle Marksmanship and Military Drill Grade: 10 - 12

This elective course is for students who want advanced instruction in marksmanship and advanced military drill beyond the scope of the mandatory curriculum. This course teaches and reinforces air rifle marksmanship instruction in firearms safety, understanding the functions and proper operation of the equipment, practicing firing in the different military firing positions and utilizing education, concentration and practice to achieve the best results. Safety and discipline are stressed at each step. This course also teaches and reinforces the conduct of advanced military drills and ceremonies, including methods of instructing drill, teaching techniques, individual and CREDIT drill, manual of arms for infantry weapons (demilitarized) and various other aspects of drill. This course furthers the student's understanding of moving CREDITs from one place to another, aids in disciplinary training by instilling habits of precision and response to the leader's orders and provides for, through ceremonies, enhanced morale and a spirit of cohesion among cadets.

HEALTH SCIENCE

Principles of Health Science 9th -12th

Principles of Health Science provides an overview of therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. The health care industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students should identify the employment opportunities, technology and safety requirements of the system. Students are expected to apply the knowledge and skills necessary to pursue a health science career through further education and employment. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities. Students are expected to employ their ethical and legal responsibilities and limitations and understand the implications of their actions.

Health Science Theory 10th—12th

This course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health care careers. Students will have hands-on experiences for continued knowledge and skill development. The course may be taught by different methodologies such as clinical rotation and career preparation learning. To pursue a career in the health science industry, students should recognize, learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. The health science industry is comprised of diagnostic, therapeutic, health informatics,
support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students should identify the employment opportunities, technology, and safety requirements of each system. Students are expected to apply the knowledge and skills necessary to pursue a health care career through further education and employment. Professional integrity in the health care industry is dependent on acceptance of ethical and legal responsibilities. Students are expected to employ their ethical and legal responsibilities, recognize limitations, and understand the implications of their actions.

Medical Terminology: 11th—12th

This course is designed to introduce students to the structure of medical terms. The course allows students to achieve the comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

Practicum in Health Science: 2 -3 credits 12th

The Practicum is designed to give students practical application of previously studied knowledge and skills. Practicum experience can occur in a variety of locations appropriate to the nature and level of experience.
To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. The health care industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students should identify the employment opportunities, technology, and safety requirements of each system. Students are expected to apply the knowledge and skills necessary to pursue a health care career through further education and employment. Professional integrity in the health care industry is dependent on acceptance of ethical and legal responsibilities. Students are expected to employ their ethical and legal responsibilities and limitations and understand the implications of their actions.
Students will learn a variety of patient care skills, as well as have opportunities to acquire different industry certifications such as CPR.
Eligible students are required to attend weekly clinical rotations at Metropolitan Methodist Hospital and must meet the following requirements: Safety Exam score of 80% of higher, Passed all EOC Assessments, Attendance Rate of 95%, No disciplinary referrals, core performance of 80% in all subjects, including elective courses, must have current vaccinations, TB test, and flu shot. Somerset ISD does provide transportation.

Public Service Endorsement Courses

CRIMINAL JUSTICE

Principles of Law, Public Safety, Corrections and Security: 9th
A principle of Law, Public Safety, Corrections, and Security introduces students to professions in law enforcement, security, corrections, and fire and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, fire service, security, and corrections.

Law Enforcement I 10-12th
Law Enforcement I is an overview of the history, organization, and functions of local, state, and federal law enforcement. This course includes the role of constitutional law, the United States legal system, criminal law, law enforcement terminology, and the classification and elements of crime.

Law Enforcement 2 11-12th
Law Enforcement II provides the knowledge and skills necessary to prepare for a career in law enforcement. This course includes the ethical and legal responsibilities, operation of police and emergency telecommunication equipment, and courtroom testimony.

Correctional Services 10 - 12th
This class focuses on the Junior Police Explorer program in our school. Daily duties include lunch patrol and training, monitoring the court yard and commons area, and parking lots. Students are responsible to observe and report to teachers assigned to their duty. ***MUST ATTEND AFTER SCHOOL TRAINING AND UNIFORM IS REQUIRED.***

Practicum in Law, Public Safety, Corrections and Security: 2–3 credits 12th
The practicum is designed to give students supervised practical applications of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

STEM Endorsement Courses

ROBOTICS AND ENGINEERING & DESIGN PRESENTATION

Principles of Applied Engineering: 9-10th
This course provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will use a variety of computer hardware and software applications to complete assignments and projects. Upon completing the course, students will have an understanding of the various fields and will be able to make informed decisions regarding a coherent sequence of subsequent courses. Students will use multiple software applications to prepare and present course assignments.

Robotics I and 2 : 10-12th
Students enrolled in this course will demonstrate knowledge and skills necessary for the robotic and automation industry. Through implementation of the design process, students will transfer advanced academic skills to component designs in a project-based environment. Students will build prototypes or use stimulation software to test their designs. Additionally, students explore career opportunities, employer expectations, and educational needs in robotic and automation industry.

Engineering Design and Presentation I and 2 (2 credits) : 10-12th
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.

Practicum in Science, Technology, Engineering and Math: 2 credits 12th
This course will provide students the opportunity to master computer software applications in a variety of engineering and technical fields. This course further develops the process of engineering thought and application of the design process.

Somerset High School Course Catalog
2019-2020

Somerset High School

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