

SENECA HIGH SCHOOL

COURSE CATALOG 2025-2026

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SHS Graduation Requirements

The following requirements are necessary to graduate from Seneca High School.

Credits are counted beginning with the ninth grade of high school; all graduates are required to take TPC as a freshman with the exception of transfer students.

Minimum High School Credit Graduation Requirements	
All students at Seneca High School must meet the following minimum graduation requirements. All credits must be completed in grades 9-12	
4 cr.	Communication Arts, taken in 9-12
3 cr.	Mathematics, taken in 9-12; Algebra I or equivalent, 2 additional Math credits
3 cr.	Science, taken in 9-12; Biology I and 2 additional Science credits
3 cr.	Social Studies; must include 1 credit each of World History, American History and American Government
1 cr.	Practical Art
1 cr.	Fine Art
1 cr.	Physical Education
0.5 cr.	Health
0.5 cr.	TPC
0.5 cr.	Speech
0.5 cr.	Personal Finance
7 cr.	Electives
Requires a minimum of 25 total credits	

Graduating with Magna Cum Laude or Summa Cum Laude – Students planning to graduate Magna Cum or Summa Cum Laude will need the following courses:	
4 cr.	Communication Arts
4 cr.	Mathematics – Algebra I and above and taken in High School, must include at least one full Honors course credit
4 cr.	Science - must include at least one full Honors course credit
4 cr.	Social Studies - must include 1 credit each of World History, American History and American Government and must include at least one full Honors course credit
1 cr.	Foreign Language (two from the same language are recommended)
1 cr.	Practical Art
1 cr.	Fine Art
1 cr.	Physical Education
0.5 cr.	Health
0.5 cr.	TPC
0.5 cr.	Speech
0.5 cr.	Personal Finance
6 cr.	Electives
Requires a minimum of 28 total credits	
Students must also meet the following graduation requirements to be eligible for Magna Cum Laude or Summa Cum Laude Academic Honors.	
1. Complete the above credit requirements in grades 9-12	
2. score at or above the previous year's national ACT composite score	
3. have an unweighted GPA in their core classes of at least 3.5	
4. maintain an overall attendance rate of 95% in grades 9-12	
College Admissions	
It is recommended that at least one math course should be taken each year and it is particularly important that students take a math course in grade 12.	

NOTE: Students who are college bound should consider curriculum requirements of the college/university of their choice; following the Magna Cum Laude or higher graduation requirements will assist this. The best source is to refer to each individual college website for the most up-to-date and complete information.

NOTE: The State of Missouri requires ALL STUDENTS to pass four tests: The United States Constitution, Missouri Constitution, Civics and CPR tests in order to earn a high school diploma. This is NOT optional. The US and Civics test is included in the American Government curriculum and the MO test is included in the American Government course curriculum. However, if a student has not passed all of the exams, or (due to a transfer or similar situation) has not taken and/or passed these tests, the student must plan to take the tests. Study guides and testing for the required tests will be provided by the social studies department. It is the student's responsibility to get the study guide and prepare for the test(s). Test dates and locations will be determined on an individual student basis.

Dual Credit and Dual Enrollment

Seneca High School Dual Credit (taught by SHS staff)

Dual credit classes allow students the opportunity to take college level classes on the SHS campus and earn both college and high school credit. Students are allowed to obtain college credit at a reduced tuition price. To be eligible for this program a student must:

- Have completed his/her freshman year of high school
- Have a minimum unweighted 3.0 GPA (cannot round up)
- Apply and be accepted to an eligible college or university
- Maintain 95% attendance

Courses also require a specific ACT score or a qualifying alternate test score. Currently Crowder College has chosen the alternate test platform of Accuplacer. Arrangements to take this test will have to be made by the student at Crowder College. Current test requirements are listed on page 6 of this course catalog. Students that participate in this program will be responsible for any and all fees incurred with their college coursework. Tuition fees are set by the college. Dual credit offerings are subject to cancellation if the minimum number of students is not met. If a class overfills, upperclassmen will take precedence. Students will receive a grade on their high school transcript as well as their college transcript. Only dual credit courses that are taught by SHS staff will be weighted. The college may have deadlines for dropping courses that differ from the high school schedule. High school schedules may only be changed within the specified time period and that may not coincide with the college schedule change dates. Colleges often have dates well into the semester to withdraw/drop a course. If a student makes this decision to drop in a Dual Credit course, they will remain in the high school class and the grade earned from the HS teacher will be on the HS transcript. The student and parent will be responsible for dropping the course at the college level.

Seneca High School Dual Enrollment (online - independent study)

Dual enrollment is a program that allows students to attend classes at a local college through online methods and receive both high school and college credit. Students must attend a college that has a current dual enrollment/credit agreement with Seneca High School. To be eligible for this program a student must:

- Have completed his/her sophomore year of high school
- Be at least 16 years of age
- Have a minimum unweighted 3.0 GPA (cannot round up)
- Apply and be accepted to an eligible college or university
- Maintain 95% attendance

For students leaving campus to attend class, attendance must be verified. In order to verify attendance, students will complete an attendance sheet on a weekly basis. This form must be submitted to the attendance secretary. Failure to do so will result in the student being marked absent for their college classes. On days when the student's college classes do not meet the student must come to the high school and engage in homework or independent study related to their high school or college courses. Students who are taking courses online will be assigned a "period" and "classroom teacher" to report to during that class period.

Students enrolled in this program must take a total of six (6) classes per semester with a minimum of three classes taken on the SHS campus. Release time for dual enrollment must occur at either the beginning or end of the school day. Courses taken at the college or university level will be counted towards the student's GPA. The letter grade listed on the student's college transcript will be the letter grade listed on the student's high school transcript. Dual Enrollment classes are not weighted. Weighted grade points are only given for some upper level courses that are taught at Seneca High School. Students cannot earn weighted grades for college courses that are not offered at SHS during that school year. Students need to understand that courses are not always offered on a yearly basis at SHS. Students will receive half (.5) a credit of high school credit for each successfully completed three (3) hour college course. Students will receive a full credit of high school credit for each successfully completed five (5) hour college course. It is the student's responsibility to provide the counseling office with an official college transcript so that grades may be entered and credit awarded on the high school transcript.

The college may have deadlines for dropping courses that differ from the high school schedule. High school schedules may only be changed within the specified time period and that may not coincide with the college schedule change dates. Colleges often have dates well into the semester to withdraw/drop a course. If a student makes this decision to drop a Dual Enrollment course, they will need to visit the counseling office to complete the process. They will be expected to report to the high school for supervision daily. The student and parent will be responsible for dropping the course at the college level. Should a student drop a college course prior to completion, the high school grade will be entered as an "F".

Students who take courses that are taken online through the dual enrollment program will be assigned one of their 7 class periods to a teacher at SHS for attendance purposes. Students

will be responsible for pacing and being self-motivated for the course. At progress reports times, students will report their grade to the teacher they are assigned to for grade card purposes.

Students that participate in this program will be responsible for tuition and all fees incurred with their college coursework. Students that have a Cashier's Hold at the college will not be able to enroll in the next semester of classes and an alternate class may be chosen for the student. Students will also be responsible for their own transportation. A copy of the student's college class schedule must be provided to the high school counselor at the beginning of each semester. The student must provide an official copy of their college transcript.

Courses may also be taken above and beyond the 7-hour full time enrollment status. Student who choose to do this will be able to take advantage of the reduced enrollment tuition and fees, however all expenses will be paid by the student. Courses that are taken in addition to full time status can be listed on the high school transcript if the student chooses this option.

Dual Credit and Dual Enrollment Qualifying Scores Currently through Crowder College

Course	ACT Score	ACCUPLACER SCORE
English 101 and 102	English - 18	College guidelines
History and Geography	Reading - 18	College guidelines
Quantitative Reasoning	Math - 19	College guidelines
College Algebra	Math - 22	College guidelines
Any Dual Enrollment online course	English 18 and Reading 18	College guidelines
DC CTEC classes	CTEC guidelines	CTEC/College guidelines

Seneca High School AP courses

Advanced Placement courses prepare a student to take an examination that could qualify the student to earn college credits. AP courses can help students acquire the skills and habits needed to be successful in college. Students will improve writing skills, sharpen problem-solving abilities, and develop time management skills, discipline, and study habits. Seneca High School believes strongly that to receive full benefits of AP courses students should take courses with the intention of taking the AP test at the end of the course. Therefore, to receive "weighted" credit students must register, pay and take the test at the end of the year. Students are not required to pass the test to receive the weighted credit. In some years, funding will be available to reimburse students who passed their tests with a 3 or higher. This will be on a year-to-year basis. Costs of tests are approximately \$99 and for students on free/reduced lunch the cost is approximately \$65. SHS staff teach some AP courses and some can be taken through virtual online school. Options currently for virtual schools are Edgenuity and MOCAP. AP courses taken through virtual instruction during the regular 7-hour school day will be counted as a weighted course if the AP test is taken at the end of the course. Students will take these courses independently online.

To be eligible for this program a student must:

- Have completed his/her sophomore year of high school *AP Government can be taken during the sophomore year if summer school work is completed in the summer prior to the sophomore year
- Teacher approval for admission to course
- Signed AP contract for SHS (some teachers also require a signed contract)
- Meet prerequisites for course
- Students that participate in this program will be responsible for any and all fees incurred with the AP testing, if they choose to test at the end of the course instruction

Academic Honors

Academic Letter: A chenille letter and certificate is given the first time a student qualifies for Academic Award. A bar is given for each succeeding qualification. A student must have an unweighted 3.50 GPA based on both semesters of the school year and must be a full-time student attending seven classes a day for the full year at SHS. GPA is calculated based on qualifying classes and the student must be enrolled in the minimum of four (4) qualifying classes for the entire year. Qualifying classes change with curriculum changes.

Top 10: The top 10 ranking students from the graduating class are recognized at the graduation ceremonies. Rank is determined at the end of eight semesters using a weighted system.

Cum Laude System

RECOGNITION

a) Summa Cum Laude

- i) Students earning a weighted GPA with a 4.2 or higher along with meeting the minimum course requirements for Summa Cum Laude will receive this distinction.
- ii) These students will receive a Gold Academic Honors Medal and will be announced as Summa Cum Laude as they cross the stage and marked accordingly on the graduation program.

b) Magna Cum Laude

- i) Students earning a weighted GPA with a 3.5-4.19 along with meeting the minimum course requirements for Magna Cum Laude will receive this distinction.
- ii) These students will receive a Silver Academic Honors Medal and will be announced as Magna Cum Laude as they cross the stage and marked accordingly on the graduation program.

c) Cum Laude

- i) Students completing the graduation requirements and finishing with a cumulative weighted GPA of a 3.5 or higher will receive this distinction.
- ii) These students will receive a Bronze Academic Honors Medal and will be announced as Cum Laude as they cross the stage and marked accordingly on the graduation program.

MOCAP – Individual Courses

The Missouri Course Access Program (MOCAP) offers many online courses to Missouri students through various vendors. Students who wish to take courses that are not offered by SHS can request to take an online course during the regular day in independent study. This is a case-by-case decision and is based on past performance, attendance, etc. Tuition for courses approved by the administration will be paid for by the district if they are taken within the regular 7-hour full time schedule. Students who wish to take additional courses beyond the regular school day can also take online courses with counselor permission. All courses will be unweighted; the exception is an AP online course taken within the regular 7-hour schedule and the student sits for the AP Exam.

NCAA and NAIA Athletic Eligibility Requirements

All students planning to participate in NCAA Division 1 or 2 athletics or NAIA athletics must register with the respective organization. Please visit the appropriate organization to register online and pay necessary fees. Requirements are listed on the websites for students who intend to play intercollegiate sports. This should be started early in the high school process so that necessary classes and required testing can take place. Visit your school counselor to make sure you are enrolled in the necessary classes if this pertains to you.

Websites: NCAA <https://web3.ncaa.org/ecwr3> NAIA www.playnaia.org

Embedded Credits

Students may earn an embedded Math and/or English credit by taking 2 years of a CTEC course and completing the WorkKeys curriculum and test. Students may also earn an embedded Science credit by completing 3 years of the Agriculture program. The embedded Math and English or Science will not be considered college prep work nor will it meet NCAA requirements. These embedded credits work only to meet the minimal requirements for graduation from Seneca High School. “Embedded English and Embedded Math” credits will be awarded upon completion of required assignments and projects given by the CTEC two-year program. *Students are awarded 1 English credit, 1 Math credit (cannot be used for the required Algebra requirement) and 1 Elective credit their senior year (if all requirements are met) in place of the 3 Practical Arts credits.*

A+ Program

At Seneca High School, we believe that the education of all students is important, regardless of their plans following high school. The Missouri A+ Schools Program is designed to ensure that all high school students will be provided with selections of courses, career counseling, technology and/or workplace skill development opportunities appropriate to their career goals.

Seneca High School has been selected by the Missouri Department of Elementary and Secondary Education as an A+ Schools site. The A+ Schools Program guides students in a rigorous program of academic and technical education that will prepare them for the workplace, post-secondary vocational/technical training, or college. Therefore, the A+ Schools Program encourages students to focus early on a career path and set a goal which includes some training beyond high school.

A significant part of the A+ Program is its financial incentive. As long as state funds remain, this incentive provides state-reimbursed tuition or scholarships to qualified students who continue their

education at a Missouri public community college or Missouri vocational/technical school. Some Missouri 4-year universities will also honor A+ funds. In order to qualify, students must:

1. Attend an A+ designated high school for two years
2. Fill out an application and return to the A+ Coordinator
3. Graduate from high school with a minimum 95% attendance for all 4 years
4. Graduate with a minimum 2.5 grade point average for all 4 years
5. Perform 50 hours of unpaid tutoring
6. Have achieved a score of proficient or advanced on the Algebra I end-of-course assessment (or the ACT Math test along with high school GPA may be utilized; see DESE guidelines at: <https://dhewd.mo.gov/ppc/grants/aplus scholarship.php> to find sliding scale)
7. Maintain good citizenship and avoidance of unlawful drugs
8. Complete the Free Application for Federal Student Aid (FAFSA) during the Senior year and show proof to the A+ Coordinator.

If you or your parents have any questions concerning the A+ Schools Program, please feel free to contact the A+ Coordinator.

Schedule Change Policy

We make every attempt to create a master schedule that allows students to select the classes they need and want. While every effort is made to help students find a workable schedule, in some instances, conflicts exist and students must make a choice to take an alternative class. To be considered for a schedule change, students must meet prerequisite requirements, the intended class must not be full and the change request must be made within the prescribed schedule change deadline. **Students are only allowed one schedule change form per semester.** Signatures from all teachers involved in the change to and from as well as parent and principal are required. No exceptions will be made after the deadline.

Definition of Terms

Advanced Placement (AP): Advanced Placement courses prepare a student to take an examination which could qualify the student to earn college credits. AP courses can help students acquire the skills and habits needed to be successful in college. Students will improve writing skills, sharpen problem-solving abilities, and develop time management skills, discipline, and study habits.

Advisory: Advisory is a 39-minute period during most days. It is designed to provide structured learning time. Assemblies and other school-wide activities may take place during this period of time. Advisory teachers will meet with students about grades and academic progress. Students may be allowed to get help from teachers during this time. This is a full year, no-credit activity for grades 9-12.

Class Rank: Class rank is determined by overall grade point average as computed at the end of eight (8) semesters of high school work. Class rank is figured both unweighted and weighted.

Credit: The numerical value received for successful completion of a particular course. One full-year of instruction equals one credit; one-semester of instruction equals one-half credit.

Dual Enrollment: Dual enrollment classes are taught by a college professor on a college campus or online.

Dual Credit: Dual credit courses allow students the opportunity to earn both high school credit and college credit at the same time and are taught by a high school dual credit instructor. Students are able to obtain college credit at a reduced tuition price. Tuition is set by the college and is the responsibility of the student and parent. Dual credit offerings are subject to cancellation if the minimum number of students is not met. If a class overfills, upperclassmen will take precedence.

Elective: A course that may be chosen for study (as distinguished from courses which are requirements). Anything taken above the minimum will count as elective credit.

Grade Point (GP) and Grading Scale:

Grade	Percent	Unweighted	Grade	Percent	Weighted
A	100-93%	4.00	A	100-93%	5.00
A-	92-90%	3.67	A-	92-90%	4.67
B+	89-87%	3.33	B+	89-87%	4.33
B	86-83%	3.00	B	86-83%	4.00
B-	82-80%	2.67	B-	82-80%	3.67
C+	79-77%	2.33	C+	79-77%	3.33
C	76-73%	2.00	C	76-73%	3.00
C-	72-70%	1.67	C-	72-70%	2.67
D+	69-67%	1.33	D+	69-67%	2.33
D	66-63%	1.00	D	66-63%	2.00
D-	62-60%	.67	D-	62-60%	1.67
F	59-0%	0	F	59-0%	0
NC	No Credit	0	NC	No Credit	0

Grade Point Average (G.P.A.): The average numerical value of all grades earned. Weighted courses add an additional 1-point value.

Missouri Connections (www.missouriconnections.org): Every student should participate in the development of a personalized online career portfolio. This resource is designed to help students develop a personal plan of study or also known as an ICAP (Individualized Career and Academic Plan) throughout high school and beyond. Abundant college and career information is available. Students can create their own portfolio account information after initially visiting the site. Seneca login and passwords are: Username: Seneca Password: 2viewmoc

MOCAP: The Missouri Course Access Program (MOCAP) provides high-quality, standards-based supplemental and full-time online coursework for Missouri schools needing credit retrieval, advanced courses, and/or curriculum. For more information visit the website <https://mocap.mo.gov> or see your HS counselor. Students must consult with their counselor before enrolling in MOCAP courses.

Prerequisite: This is a condition that must be met in order to enroll in a course. For example, successful completion of Ag Science 1 is a prerequisite for taking Ag Science 2.

Repeated Courses: Some courses are allowed to be repeated, examples would be Band, Choir, Art, Woodshop, Lifetime Activities, Body Conditioning. Students should check in the

counseling office for specific questions. Students who list a course that cannot be repeated on their pre-enrollment form will be placed in an alternate course. All grades earned will be placed on the transcript.

Requirements: A course that is required for graduation.

Work Permits: Fourteen- and fifteen-year-old students who are employed outside of regular school hours will be given a Missouri State work permit upon request if they have no D's or F's on their previous quarter or semester report card. Progress reports will not be used to meet the requirements for work permits. Work permits are available from counselors.

KEY FOR COURSES

(W) = Weighted course adding 1 additional point (5.0 GPA scale)

(*W) = Weighted course is dependent upon taking the AP test

(H) = Honors course for Magna Cum Laude and/or Summa Cum Laude

Communication Arts Enrollment Guidelines

How many credits are required for graduation?

- All students are required to have four credits of communication arts, taken in high school, for graduation.

What if a student failed a semester or year of Communication Arts?

- Students must repeat the same semester that they did not successfully complete in order for the credit to count towards graduation.
- A student who failed a single semester may enroll concurrently in the semester they have yet to complete and the next communication arts course in the sequence. For example, a junior student that failed a semester of Communication Arts II should be enrolled in the same semester of Communication Arts II that they failed and be enrolled in Communication Arts III.
- A student who has failed both semesters of a communication arts course must have the instructor's permission to enroll in the next level of communications arts prior to completing both failed semesters.
- Embedded Communication Arts credit - see Embedded Credits

**HS11000,
HS22000 Communication Arts I (9) Two Semesters/1 Credit**

Prerequisites: None

This course fulfills the first-year of Communication Arts and focuses on developing students as better readers, writers, and thinkers. This course includes a study of the major types of literature, vocabulary, writing skills, editing, oral presentations, and higher-order thinking skills.

**HS11000A,
HS21000A Advanced Communication Arts I (9) Two Semesters/1 Credit**

Prerequisite: Recommendation from 8th grade Communication Arts teacher

This course fulfills the first-year Communication Arts requirement. Advanced CAI focuses on the close reading of texts, analytical writing, and language skills to prepare students for Advanced CAII. Writing instruction focuses on the writing process and more specific elements of writing such as paragraph structure, sentence structure, supporting evidence, organization, and development. This course will introduce students to a variety of literature pieces from across the world in order to give students an opportunity to implement higher-order critical thinking and express their understanding of literary devices.

**HS11005,
HS21005 Communication Arts II (10) Two Semesters/1 Credit**

Prerequisite: Communication Arts I attempted

This course fulfills the second-year Communication Arts requirement. Writing instruction in this class includes development in the writing process with emphasis on organization, development, support of ideas, vocabulary development, and acceptable mechanics, usage, grammar, and spelling. This course also includes a study of world literature, editing, oral presentations, and the development of higher-order thinking skills. This course has a state-mandated End of Course Communication Arts II exam.

**HS11005A,
HS21005A Advanced Communication Arts II (10) Two Semesters/1 Credit**

Prerequisite: 3.0 average in Communication Arts I and recommendation from CAI teacher or completion of Advanced Communication Arts I

This course fulfills the second-year Communication Arts requirement. Advanced Communication Arts II focuses on the close reading of texts, analytical writing, and language skills to prepare students for future AP Communication Arts classes. Writing instruction focuses on the writing process and more specific elements of writing such as paragraph structure, sentence structure, supporting evidence, organization, and development. This course will introduce students to a variety of literature pieces from across the world in order to give students an opportunity to implement higher-order critical thinking and express their

understanding of literary devices. This course has a state-mandated End-of-Course Communication Arts II exam.

**HS11010,
HS21010 Communication Arts III (11) Two Semesters/1 Credit**

Prerequisites: Two years of Communication Arts Courses Attempted

This course fulfills the third-year Communication Arts requirement. Writing instruction in this course includes the development of research documentation as well as formal and creative writing. This course includes a study of American Literature, vocabulary, writing skills, editing, oral presentations, and the development of higher-order thinking skills.

**HS11017,
HS21017 AP Language (11-12) Two Semester/1 Credit (*W)(H)**

Prerequisites: Previously taken Communication Arts courses completed with a grade of 'B' (83%) or higher. AP contract signed by student and parent. Contracts will be submitted to the department and actual admittance into course is dependent upon dept. approval.

This course, or Communication Arts III, will fulfill the third-year Communication Arts requirement. This course focuses on composition and literature to prepare students for the Advanced Placement Language and Composition exam. It is a rigorous course for those students who have excellent academic skills. Students will focus on extensive reading of nonfiction and essays and analysis of that reading through writing. Students will also be expected to demonstrate competency through writing essays exhibiting narration, description, argument, and exposition as well as producing research papers and timed writings. Students will become familiar with rhetorical techniques and how authors employ them. Students who obtain a score of three or better on the AP exam may receive college credit for the class. Weighted credit will be offered if the AP exam is taken at the end of the course.

HS11022 Mythology (11, 12) One Semester/.5 Credit

Prerequisites: Minimum GPA of 3.0 in Communication Arts courses. Recommendations from Communication Arts teachers will be required.

This course is designed for students who love to read and write. Students should be able to work independently and in groups. Mythology will be a global survey of gods, goddesses, heroes, and monsters, but will focus on the classical Greek pantheon. This is a writing-intensive course and is paired with Fables, Folklore and Fairytales second semester.

HS11023 Fables, Folklore, and Fairy Tales (11, 12) One Semester/.5 Credit

Prerequisites: Minimum GPA of 3.0 in Communication Arts courses. Recommendations from Communication Arts teachers will be required.

This course is designed for students who love to read and write. Students should be able to work independently and in groups. This course will focus on the morphology of fables, folklore, and fairy tales as told around the world and will thus focus on comparing and contrasting their varying forms and archetypes. This is a writing-intensive course. This course is paired with Mythology.

**HS11015,
HS21015 Communication Arts IV (12) Two Semesters/1 Credit**

Prerequisites: Communication Arts I, II, and III (or equivalent)

This course, or AP Literature, fulfills the fourth year of Communication Arts. This course includes a focus on Greek and Latin roots. This exit course includes a study of British literature, vocabulary, writing skills, and higher-order thinking skills.

HS21014 Dual Credit English Composition I (11-12) One Semester/.5 Credit (W)(H)

Prerequisite: Must meet Dual Credit eligibility

The primary aim of this freshman writing course is to give students instruction and practice in writing mechanically correct, well-organized, and well-developed expository themes on topics of importance and significance as well as opportunities to write in argumentative and narrative genres. This course fulfills a portion of the communication arts general education requirements.

**HS21014 Dual Credit Adv. English Composition
(11-12) One Semester/.5 Credit (W)(H)**

Prerequisite: Must meet Dual Credit eligibility and successful completion of Dual Credit English Composition I.

This writing course continues the study of clearly effective written expository prose for those who have successfully completed Dual Credit English Composition I. In addition, students advance to study more complex methods of thesis development. Research and documentation procedures are integral subject matter. This course fulfills a portion of the communication arts general education requirements.

**HS11072,
HS21072 ESL English (9 – 12) Two Semesters/1 Credit**

Prerequisite: Must meet the criteria for Limited English Proficiency and have prior approval of the ESL Coordinator.

Beginning, intermediate, and low English proficiency students will study English grammar, vocabulary, and literature at an individual pace. **This course is not an approved core course for NCAA purposes.**

Mathematics Enrollment Guidelines

How many credits are required for graduation?

- All students are required to have three credits of mathematics for graduation.
 - Students who are graduating Magna Summa Cum Laude must have four credits of mathematics, taken in high school, grades 9-12, Algebra I and higher.
 - Students are required to complete a minimum of three credits mathematics taken in high school (grades 9-12) one which must include one unit of Algebra. Credit and unit equivalencies are listed in the course descriptions.

What if a student failed a semester or year of mathematics?

- Students must repeat the same semester that they did not pass in order for the credit to count towards graduation.
- If a student does not pass both semesters of the current math class they must retake both semesters before they are allowed to continue in the mathematic sequence.
- Students who do not successfully complete Algebra I may be asked to take Algebra A.
- A student who failed a single semester may enroll concurrently in the semester they have yet to complete and the next mathematics course in the sequence with the instructor's permission.
 - For example: A sophomore student that failed a semester of Geometry should be enrolled in the same semester of Geometry that they failed and could, with the instructor's permission, be enrolled in Algebra II.
- Students who fail a single semester of a course, and do poorly in the other semester may be asked to repeat the entire course. In this case, students will receive elective credit for the semester they have already passed and mathematics credit for the semester they did not.
- Embedded Math - see Embedded Credits

HS12000,
HS22000 Algebra A (9 – 11) **Two semesters/1 Credit/.5 Algebra Unit**

Prerequisites: None

This course is designed for students who need increased time for mastering Algebra I. The first semester of Algebra I will be completed during this year long class. This course will not meet the mathematics requirement for those students wishing to graduate with honors.

HS12001,
HS22001 Algebra B (10 – 12) **Two semesters/1 Credit/.5 Algebra Unit**

Prerequisite: Algebra A

This is the second-year course for those students who need increased time for mastering Algebra I. The second semester of Algebra I will be completed during this year long class. This course will not meet the mathematics requirement for those students wishing to graduate with honors. This course has a state mandated End of Course Algebra I exam.

HS12002,
HS22002 Algebra I (9 – 12) **Two semesters/1 Credit/1 Algebra Unit**

Prerequisite: None

Algebra 1 emphasizes the study of multiple representations of linear and nonlinear functions. Topics include real numbers, algebraic expressions, solving linear equations, inequalities and polynomials. This class will aid in everyday problem-solving skills and is a prerequisite for high level math classes. This class has a state mandated End of Course Algebra I exam.

HS11999,
HS21999 Applied Geometry (9 – 12) **Two semesters/1 Credit**

Prerequisites: Algebra I

This course is designed to teach students the fundamentals of Geometry such as, but not limited to: line and angle relationships, relationships within triangles, similarity, congruence, trigonometry, polygon properties, circles with and without coordinates, and area/volume of solids. There will be project based activities in the class to show relevance to the technical world. All students will be enrolled in this course or Geometry to satisfy the prerequisite for Algebra II. **This course is not an approved core course for NCAA purposes.**

HS12017,
HS22017 Geometry (9 – 12) **Two semesters/1 Credit**

Prerequisites: Algebra I

This course is designed to study the properties of common geometric figures in two and three dimensions, geometric transformations and right triangle trigonometry. Inductive and deductive thinking skills that are used in problem solving situations and applications to the real world are emphasized in this course.

HS12004,

HS22004 Algebra II (10– 12)

Two semesters/1 Credit

Prerequisites: Algebra I and Geometry (or Applied Geometry)

Algebra II provides a further development of the concepts in Algebra. Fundamental skills of mathematics will be applied to topics as functions, equations and inequalities, probability and statistics, Logarithmic and exponential relationships, quadratic and polynomial equations and matrices. Graphing calculators will be used to introduce and expand upon the areas of study listed above. Student who took 8th grade Algebra I will be required to take an End of Course Algebra II exam at the end of this course.

HS12041 Algebra III (11 – 12)

One semester/.5 Credit (H) 1st semester only

Prerequisites: Algebra I, Geometry (or Applied Geometry) and Algebra II

Students in the Algebra III course will study algebraic expressions, real and complex numbers, algebraic functions, equations, synthetic division, conic sections, inequalities, exponential and logarithmic functions. This course will prepare students for Advanced Mathematics or Dual Credit College Algebra. This course is not weighted.

HS22049 Intro to Statistics (11 – 12)

One semester/ .5 Credit (H) 2nd semester only

Prerequisites: Algebra I, Geometry (or Applied Geometry) and Algebra II. This course can be taken concurrently with Algebra II or Geometry (or Applied Geometry) with instructor approval.

Students will explore probability and simulation, and conditional probability. They will learn the major concepts and tools for collecting, analyzing, and drawing conclusions from data. They will also see how measures of central tendency, dispersion and graphing techniques help us to observe patterns and departures from patterns. This course is not weighted.

HS12055,

HS22055 Advanced Mathematics (11– 12)

Two semesters/ 1 Credit (W)(H)

Prerequisites: Algebra I, Geometry (or Applied Geometry) and Algebra II

This course is designed for those students who possess a strong foundation in mathematics. The course is designed to strengthen all of the previous math classes and to bridge the gap between Algebra/Geometry/Algebra 2 and Calculus. This course will intertwine trigonometry and precalculus to prepare students for Calculus. Students will be studying trig functions, the relationship between the trig functions,

linear functions and systems of linear equations, exponential functions, logarithmic functions as well as conic sections. This course is a precursor to AP Calculus.

HS12056,

HS22056 Dual Enrollment College Algebra (11-12)

One semester/.5 Credit (H)

Prerequisites: ONLINE COURSE ONLY. Algebra I, Geometry (or Applied Geometry), Algebra II, and a minimum unweighted GPA of 3.0 to take this course. Students must meet all Dual Enrollment requirements. This course will require a tuition fee (approx. \$180) There is also an online additional software fee of approximately \$60. In Missouri colleges, this course will be called Algebra for Calculus on college transcripts beginning in 2018-19.

College Algebra studies algebraic expressions, real and complex numbers, algebraic functions, equations, inequalities, exponential and logarithmic functions. This course will satisfy most degree requirements in Mathematics and should transfer to any four-year institution. College Algebra will help prepare the student for an increasingly technical society.

HS12021,

HS22021 AP Calculus (11 – 12)

Two Semesters/1 Credit (W*)(H)

Prerequisites: Algebra I, Algebra II, Geometry (or Applied Geometry) and Advanced Math. All students must have a teacher recommendation. AP Contract signed by student and parent. Contracts will be submitted to the department and actual admittance into course is dependent upon dept approval.

In this course, students will explore the key concepts, methods, and applications of single-variable calculus including functions, graphs, and limits, derivatives, integrals and the Fundamental Theorem of Calculus. In addition, they will become familiar with concepts, results, and problems expressed in multiple ways including graphically, numerically, analytically, and verbally. Use of technology will be implemented to help solve problems, experiment, interpret results, and support your conclusions. Students will receive weighted credit if they take the AP exam at the end of the course.

HS12053,

HS22053 AP Statistics (11 – 12)

Two Semesters/1 Credit (W*) (H)

Prerequisites: Algebra I, Geometry (or Applied Geometry) and Algebra II with a minimum grade of “B” in each course. AP Contract signed by student and parent. Contracts will be submitted to the department and actual admittance into course is dependent upon dept approval. This class can be taken concurrently with Advanced Math.

The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes: 1) Exploring Data: Describing patterns and departures from patterns 2) Sampling and Experimentation: Planning and conducting a study 3) Anticipating Patterns: Exploring random phenomena using probability and simulation 4) Statistical Inference: Estimating

population parameters and testing hypotheses. Students will receive weighted credit if they take the AP exam at the end of the course.

Science Enrollment Guidelines

How many credits are required for graduation?

- All students are required to have three credits of science for graduation, one must be Biology and 2 others
 - Students who are graduating Magna or Summa Cum Laude must have four credits of science, which must include at least one honors course.
 - Students wanting to take upper level science courses will need to take Chemistry as it is a prerequisite for all upper level courses.

What if a student failed a semester or year of science?

- Students must repeat the same semester that they did not successfully complete in order for the credit to count towards graduation.
- A student who has failed a single semester may enroll concurrently in the semester they have yet to complete and the next science course in the sequence. For example: A sophomore student that failed a semester of Integrated Science should be enrolled in the same semester of Integrated Science that they failed and also enrolled in a Biology course.
- A student who has failed both semesters of a science course must have the instructor's permission to enroll in the next level of science prior to completing both failed semesters.
- Students may earn an embedded Science credit by taking 3 years of Ag consisting of Ag 1, Ag 2 and an upper level Ag course. The embedded science class will not be considered college prep work nor will it count as an NCAA course. This science credit works only to meet the minimal requirements for graduation from Seneca High School. This is for students who are in the graduating class of 2023 and beyond; students must also be a full-time student at SHS in order to utilize this credit.

**HS14000,
HS24000 Integrated Science I (9 – 12)**

Two semesters/1 Credit

Prerequisites: None

In this entry level science course students conduct field and laboratory investigations, use scientific methods during investigations and make informed decisions using critical-thinking and problem-solving skills. This course integrates the disciplines of physical science, chemistry and biology in the following topics: motion, energy transformation, objects in the universe and their motion, properties of matter, changes in matter, components and structures of earth's systems, and interactions among earth's systems.

**HS14003,
HS24003 Integrated Science II (10 – 12)**

Two semesters/1 Credit

Prerequisites: Integrated Science I

Integrated Science II is a general science course that builds upon and reinforces the concepts learned in Integrated Science I. This course provides hands-on inquiry-based learning experiences in all four sciences (Physics, Biology, Earth Science and Chemistry). The course also emphasizes important science skills (scientific method, measurement and data analysis) and academic preparation (critical thinking and problem solving). The course requires the student to keep an organized notebook and journal, to participate fully in all activities, and to complete all assigned work to a satisfactory level. Reading assignments and homework are geared to the general level student.

**HS14004,
HS24004 Biology I (10 – 12)**

Two semesters/1 Credit

Prerequisites: Integrated Science I with a "C" or higher in both semesters and/or teacher recommendation OR completion of Integrated Science I and II.

This inquiry-based science course uses a thematic approach in learning the concepts of biology. Major sub-themes of study include homeostasis, matter and energy, continuity, growth and development, diversity and patterns of change. This course has a state mandated End of Course Biology 1 exam.

**HS14005,
HS24005 Advanced Biology I (9-12)**

Two semesters/1 Credit

Prerequisites: Integrated Science I with a "B" or higher in both semesters and/or teacher recommendation OR completion of Integrated Science I and II. Entering 9th graders must achieve a satisfactory score on the Science placement test. Students who do not pass the Science Placement test may take Integrated Science (online) during summer school and earn a passing grade.

Advanced Biology I focuses deeply on the concepts and skills that have maximum value for college and career. This course concentrates on the core areas of ecological systems, cellular systems, evolution, and genetics. Rather than understanding content

topics in isolation, students will make meaningful connections between the structures, processes and interactions that exist across biological systems - from cells to ecological communities. In Advanced Biology I, students will; be active participants in analyzing real world phenomena, apply science practices to construct and revise their knowledge, and regularly collaborate with their peers in dialogue, investigations, and problem solving. This inquiry-based science course uses a thematic approach in learning the concepts of biology. Major sub-themes of study include homeostasis, matter and energy, continuity, growth and development, diversity and patterns of change. This course has a state mandated End of Course Biology 1 exam. This course is taught at an accelerated pace and is designed to prepare students who will be taking the AP Biology course.

HS14016,

HS24016 Chemistry I (10 – 12)

Two semesters/1 Credit

Prerequisites: Biology and a “C” or higher in both semesters of Algebra I or Algebra B with a “C” or higher in both semesters and/or instructor approval. This course may be taken concurrently with Biology I with instructor’s approval. Sophomore students may take concurrently with instructor approval and a passing grade on the Science placement test.

Students in this course will study the relationship between matter and energy, the atomic theory, the structure and behavior of atoms, the kinetic theory of matter, periodic trends, chemical nomenclature, writing chemical formulas, predicting reaction products, the mole and stoichiometry, acids and bases, the gas laws and the impact of chemistry and technology on society.

HS14032, Human Anatomy and Physiology (11 –
HS24032 12)

Two semesters/1 Credit (W)(H)

Prerequisites: Biology I and Chemistry I

This college preparatory course involves the study of the structure and function of the human body. A variety of methods of study will include laboratory activities such as dissection of preserved specimens, the study of anatomical models and the study of microscopic tissue slides. Discussion and evaluation of current research, technology and issues related to the health field will also be included. This course is a weighted level science course.

HS14036,

HS24036 Physics (11 – 12)

Two semesters/1 Credit (W)(H)

Prerequisites Chemistry I with a “C” or better

Physics is an advanced level course that will investigate the transformation of matter and energy through the fundamental quantities of mass, length, and time. Methods of study will include problem solving, demonstrations and laboratories. Investigations will cover standard measurement, nature of motion, nature of waves, optics, and electricity and magnetism. This course is a science course.

HS14012,**HS24012 AP Biology (11 – 12)****Two semesters/1 Credit (W*)(H)**

Prerequisites: Recommended Biology I, Chemistry I and instructor's approval. AP Contract signed by student and parent. Contracts will be submitted to the department and actual admittance into course is dependent upon dept approval.

This course is designed to be the equivalent of a college introductory biology course. It will provide students with the conceptual framework, factual knowledge and analytical skills necessary to deal with the rapidly changing science of biology. Students use the national AP Biology curriculum and upon completion of the course take the AP Biology exam to possibly earn college credit. This course is weighted if the AP exam is taken at the end of the course

**HS14051, Engineering Essentials PLTW (10 –
HS24051 12)****Two semesters/1 Credit (H)**

Prerequisites: Must have completed Algebra 1 and either be enrolled in or have completed Chemistry.

Students explore the breadth of engineering career opportunities and experiences as they solve engaging and challenging real-world problems. Explore how engineers make a difference and improve lives, while using modern engineering tools, such as geographic information systems, 3-D solid modeling software, and prototyping equipment. Work on your own and as part of a team to develop solutions to community and global challenges that the next generation of engineers will face like creating a natural relief center system or creating a solution to improve the safety and well-being of citizens.

**HS14052, Introduction to Engineering Design PLTW (10 –
HS24052 12)****Two semesters/1 Credit(H)**

Prerequisites: Must have completed Algebra 1 and either be enrolled in or have completed Chemistry.

Introduction to Engineering Design (IED) is a high school engineering course in the PLTW Engineering Program. In IED, students explore engineering tools and apply a common approach to the solution of engineering problems, an engineering design process. Utilizing the activity-project-problem-based (APB) teaching and learning pedagogy, students' progress from completing structured activities to solving open-ended projects and problems that require them to plan, document, communicate, and develop other professional skills.

Social Studies Enrollment Guidelines

How many credits are required for graduation?

- All students are required to have three credits of Social Studies for graduation.
 - Students who are graduating Magna or Summa Cum Laude must have four credits of Social Studies, which must include at least one honors course.
 - Required social studies courses are World History, Government and United States History.

What if a student failed a semester or year of Social Studies?

- Students must repeat the same semester that they did not successfully complete in order for the credit to count towards graduation.
- Students may continue to advance through the social studies sequence even if they have failed the previous year. They should, however, also be enrolled in the class that they have failed. For example, a sophomore who has failed American History should be enrolled in both U.S. Government and the semester(s) of American History that they did not complete.

**HS13001,
HS23001 World History (9 – 12)**

Two semesters/1 Credit

Prerequisites: None

This course provides a survey of Western Civilization from Renaissance to the present. The content will be studied with respect to how past events impact our lives today. To fulfill these objectives skills in comprehension, cause and effect, and critical thinking will be developed.

**HS13010,
HS23010 American History (10 – 12)**

Two semesters/1 Credit

Prerequisites: None

American History is designed for students to examine the United States from Reconstruction to Reaganomics in order to understand the development of the United States and its economic, political and social institutions. A unit on Missouri history and government is included. Activities involving research, cause and effect skills, summarization and chronological order will be included.

**HS12998,
HS22998 American Government (11 – 12)**

Two semesters/1 Credit

Prerequisite: None

The study of American Government will help the student understand the foundations of democracy and help them function as a responsible and productive citizen in society. Students will study the three branches of government, the rights and responsibilities of citizenship and how those rights and responsibilities affect our lives. Students will study the U.S. Constitution and will be able to explain the relevance and connection of constitutional principles in the United States. Geography activities will be integrated that will include location, place, movement, regions and their relationship and changes to society and the environment. Map interpretation and identification will be included. This course has a state mandated End of course Government exam.

HS13028 Dual Credit American Hist 106 (10 – 12)

**One semester/.5 Credit
(W)(H)**

Prerequisites: Students must have a minimum score of 18 on the Reading subtest of the ACT and a minimum GPA of 3.0 and meet the requirements of Dual Credit. This course will require a tuition fee (approx. \$180) Students who take this course without purchasing the college dual credit will be required to purchase the college textbook required for this course (approx. \$90-100)

This is a dual credit course offered through Crowder College. It is a 3-credit hour course. The course covers United State history from 1492 to 1877 and is a survey of the United States from colonial times to 1877. This course will satisfy half of the American History requirement for the Sophomore year.

HS23029 Dual Credit American Hist 107 (10 – 12)**One semester/.5 Credit
(W)(H)**

Prerequisites: Students must have a minimum score of 18 on the Reading subtest of the ACT and a minimum GPA of 3.0 and meet the requirements of Dual Credit. This course will require a tuition fee (approx. \$180) Students who take this course without purchasing the college dual credit will be required to purchase the college textbook required for this course (approx. \$90-100)

This is a dual credit course offered through Crowder College. It is a 3-credit hour course. The course covers United State history from 1877 to present and is a survey of the economic, social and political development of the United States from 1877 to present. This course will satisfy half of the American History requirement for the Sophomore year.

HS13058 Dual Credit Western Civilization 101 (10 – 12)**One semester/.5 Credit
(W)(H)**

Prerequisites: Students must have a minimum score of 18 on the Reading subtest of the ACT and a minimum GPA of 3.0 and meet the requirements of Dual Credit. This course will require a tuition fee (approx. \$180) Students who take this course without purchasing the college dual credit will be required to purchase the college textbook required for this course (approx. \$90-100)

This is a dual credit course offered through Crowder College. It is a 3-credit hour course. In this history of Western Civilization from ancient times to the end of the Renaissance/ Reformation era, the culture and institutional developments of the early civilizations and classical Europe are stressed. ***With successful completion of this course a student will earn .5 social studies credits, but that credit does not fulfill the graduation course requirement for World History, American History or American Government credit.***

HS23058 Dual Credit Western Civilization 102 (10 – 12)**One semester/.5 Credit
(W)(H)**

Prerequisites: Students must have a minimum score of 18 on the Reading subtest of the ACT and a minimum GPA of 3.0 and meet the requirements of Dual Credit. This course will require a tuition fee (approx. \$180) Students who take this course without purchasing the college dual credit will be required to purchase the college textbook required for this course (approx. \$90-100)

This is a dual credit course offered through Crowder College. It is a 3-credit hour course. Cultural developments and the growth of social and political institutions of the post-Renaissance/Reformation Western world are stressed. HIST 102 is a foundation course for understanding contemporary world problems. ***With successful completion of this course a student will earn .5 social studies credits, but that credit does not fulfill the graduation course requirement for World History, American History or American Government credit.***

**HS13018,
HS23018 AP United States Government (11 - 12)**

**Two semesters/1 Credit
(W*) (H)**

Prerequisites: World and American History with a grade of B (85%) or better and teacher approval. AP Contract signed by student and parent. Contracts will be submitted to the department and actual admittance into course is dependent upon department approval. Students who have not previously taken government must take an online summer school course for elective credit in preparation for the AP course.

United State Government and Politics is an intensive study of the formal and informal structure of government and the processes of the American political system, with emphasis on policy making and implementation. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of government and politics. Students will become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes in government and politics. Additionally, students will be able to analyze and interpret basic data relevant to U.S. Government and Politics. The concepts and specific topics examined in this course are those that may appear on the AP exam. This course will satisfy the US Government requirement for the sophomore year. Juniors and seniors may take AP US Govt as a social studies elective. Students who pass the AP exam will be eligible to credit at most colleges. To receive weighted credit students must take the AP exam at the end of the course. Students will take the state required End of Course exam if taking it to meet the Govt graduation requirement.

HS13054 Intro to Psychology (11 – 12)

One semester/ .5 Credit

Prerequisites: None

This class will study human behavior and how that behavior is affected by intellectual ability, biological functions, emotions, environment, and groups. Methods of instruction will include lecture, class discussion, cooperative learning, authentic assessment, projects and research and audio-visual aids.

HS23042 Sociology (11 – 12)

One semester/.5 Credit

Prerequisites: None

Sociology is the Social Science specifically associated with the study of people in interaction. Those people can number as few as two, or we can observe a large group. Whatever the size, the subject of Sociology is interested in what happens when people come together – what keeps people in line, what values do Americans believe in, or what kind of “self” do we present to others. In this course we will be developing understanding, and applying the principles of sociology. The goal is to understand human society, social behavioral and social interaction.

HS13022 Current Events (11 – 12)

One semester/.5 Credit

Prerequisites: None

Students will study and summarize current events using various media. Students will understand why and how current events affect them. Students will have the opportunity to learn civic responsibility in current events and expand their vocabulary.

HS23025 Ancient History (11 – 12)

One semester/.5 Credit

Prerequisites: None

This course will focus on the ancient civilizations of man with an emphasis on the influence of religious beliefs and its impact on the civilizations' government, traditions, culture and relationships among people and places. The study will be divided between eastern and western civilizations. Under the western civilizations a study of Judaism, Christianity, and Islam are included. Under the eastern civilizations a study of Hinduism, Buddhism, and Confucianism are included.

Fine Arts

**HS15050,
HS25050 Art I (9 – 12)**

Two semesters/1 Credit

Prerequisites: None

This is an introductory class with hands-on experience in two dimensional and three-dimensional areas. The core curriculum includes drawing, design, painting, calligraphy, three-dimensional construction, color, and art history. All these experiences develop the students' awareness of art in the world around them. Students will produce works of art both functional and aesthetic in nature.

**HS15055,
HS25055 Advanced Art (10 – 12)**

Two semesters/1 Credit

Prerequisites: Art I with a grade of "B+" (87%) or better and/or approval of the teacher.

The advanced art class is concerned with more complex, larger, and professional looking work. This course includes painting, design, relief, collage, pottery and ceramics, assemblage and sculpture in order to prepare students to enter the professional workforce.

**HS15058,
HS25058 Drama (9 – 12)**

Two semesters/1 Credit

Prerequisites: None

Students will be exposed to the history of drama, character development, readers theater, play production, and all areas of technical theater. The students will observe, study, identify and perform dramatic works. Students are required to attend and assist at BOTH the fall and spring play. Students are required to purchase supplies for projects throughout the year (not to exceed \$30 total).

**HS15062,
HS25062 High School Band (9 – 12) Two semesters/1 Credit**

Prerequisites: Audition required

High School band students will learn more advanced and complex elements of music performance including marching band and concert band. Students gain experience through daily rehearsals, home practice, and performance as a large group, small ensemble and as individuals.

**HS15064,
HS25064 Jazz Band (9 – 12) Two semesters/1 Credit**

Prerequisites: Concurrent enrollment in High School Band and audition required

This class is designed for the advanced musician who desires a more extensive training on their instrument. Study includes playing in a classic jazz style, swing and basic improvisational skills.

**HS15065,
HS25065 Music Appreciation (9 – 12) Two semesters/1 Credit**

Prerequisites: None

Music Appreciation is an introductory course to music. Students will explore musical elements and practices in order to gain understanding and appreciation for all types of music throughout history.

**HS15069,
HS25069 Mixed Chorus (9 – 12) Two semesters/1 Credit**

Prerequisites: None

This course employs all fundamental singing skills in a nonperformance class. The course is open to any student who would like to improve vocal technique. Students will have the option of singing with concert choir.

**HS15070,
HS25070 Show Choir/Seneca Starstruck (9 – 12) Two semesters/1 Credit**

Prerequisites: Audition required, \$200 costume fee (\$100 is due the first week of school), and limited number of mandatory summer rehearsals.

This course is designed for the advanced music student and is auditioned before acceptance. Emphasis will be in performance of a variety of music and will include extensive choreography costuming and staging. Activities will include Winter and Spring concerts, District/State Honor Choir auditions, District/State Music Contest, area show choir contests and clinics, and other school and community events as scheduled throughout the year.

**HS15076,
HS25076 Stagecraft (9 – 12) Two semesters/1 Credit**

Prerequisites: None

Stagecraft is a course designed to introduce students to the fundamental elements and principles of technical theater. Through hands-on learning, students will explore theatrical production facilities, operations and technologies. They will relate these practices to professional, amateur, and educational theater settings. Key areas include the history of theatrical stages, roles within the theater hierarchy, scenic construction, theatrical lighting, sound technologies and stage management.

Speech

**HS11046,
HS21046 Speech (11 – 12)**

One Semester/.5 Credit

Prerequisites: None

Speech emphasizes oral interpersonal communications, public speaking, small group discussions and job interviewing skills. Students receive instruction and guided practice through various types of formal speaking: Informative, persuasive, demonstration, entertaining, and special occasions.

**HS11047,
HS21047 Contest Debate (9 – 12)**

Two semesters/1 Credit

Prerequisites: Teacher recommendation and approval required.

This course is a highly selective contest debate course. Students will spend their time learning how to properly debate, give extemporaneous speeches, and write/perform original oratories for competition. Students in this class must compete in speech and debate competitions. This course may also be substituted for the Speech course required for graduation. Students must compete in a minimum of 2 contests in speaking events to earn the speech credit. If this is not attained the credit will be earned as an elective credit. Credit will be earned based on the recommendation of the Contest Debate sponsor.

Health

**HS16023,
HS26023 Health (9)**

One semester/.5 Credit

Prerequisites: None

Health is a one semester course that prepares students in understanding personal wellness with cornerstones focusing on mental, social and physical aspects of health. A special emphasis is placed on the body systems as related to prevention of disease, tobacco use, drug and alcohol abuse, nutrition, physical activity and health maintenance.

TPC

**HS11090,
HS21090 TPC - Transitions (9)**

One semester/.5 Credit

Prerequisites: None

TPC stands for Tradition ~ Pride ~ Class and is a one-semester course designed to help incoming freshman to prepare for their high school years and beyond. Students will be involved in a project-based curriculum that will help them identify their own learning style and develop skills in test taking, communication, decision making, tolerance and time management. Students will also learn how to manage money and become business savvy.

Foreign Language

**HS11064,
HS21064 Spanish I (9 – 12)**

Two semesters/1 Credit

Prerequisites: None

Students will study Spanish in the present tense, learning a large amount of vocabulary words and basic grammar constructions. Emphasis will be placed upon beginning listening, speaking, reading and writing skills. Students will broaden their knowledge of the Hispanic world and its culture and geography, learning to respect the similarities and differences which lie between our worlds.

**HS11066,
HS21066 Spanish II (10 – 12)**

Two semesters/1 Credit

Prerequisites: Spanish I

Students will explore the language in greater depth, adding much more vocabulary and more complicated grammar constructions to the skills acquired in Spanish I. Students will begin to study preterite and imperfect tenses. Listening, speaking, reading and writing skills will be encouraged. Studying the culture of the Hispanic world will continue.

**HS19972,
HS29972 Spanish III (11 – 12)**

Two semesters/1 Credit (H)

Prerequisites: Spanish I, Spanish II with a grade of at least a "C-" (70%) or better

Students will continue studying the grammar and vocabulary of the language. They will study the present, preterite, imperfect, future, conditional, present perfect, past perfect and future perfect tenses, as well as the command of verbs. More emphasis will be placed on speaking and listening, reading for comprehension, and creative writing skills. Cultural studies will continue. This class is for serious students who have a desire to further their knowledge of the Spanish language.

HS11070,

HS21070 Spanish IV (12)

Two semesters/1 Credit (H)

Prerequisites: Spanish I, Spanish II, Spanish III with a grade of at least a “C-” (70%) or better

Students will review all previously learned concepts and add to them the subjunctive mood of the language. More emphasis will be placed on reading comprehension, creative writing, and speaking. Literature, including novels and poetry will be explored.

Practical Arts

Computer Technology ~ Agriculture ~ Family and Consumer Science ~ Industrial Arts

Computer Technology / Business

**HS16103,
HS26103**

Computer Applications (9 – 12)

Two Semesters/1 credit

Prerequisites: None

This course is designed to help students gain skills in the areas of word processing, spreadsheet applications, presentation software, internet usage, and an introduction to database management. Microsoft Office and Google will be utilized in this class along with exploring other applications.

**HS16010,
HS26010**

Introduction to Business (9 – 12)

Two Semesters/1 Credit

Prerequisites: None

This course is designed to prepare students for college level business courses and to develop the qualities, knowledge and skills necessary for entry level business employment. Students will gain a basic understanding of multiple business fields through hands on interactive projects and activities. Areas of study include: personal finance; marketing and advertising; sales; business communication; business management; business law and entrepreneurship. Students will have the opportunity to develop leadership qualities through projects and voluntary participation in Future Business Leaders of America activities.

**HS15098,
HS25098**

(Business Leadership) (9 – 12)

Two semesters/1 Credit

Prerequisites: Active or previous involvement in FBLA (NOTE: Membership in FBLA is a requirement for this course - \$15 membership dues)

This course is project based and is closely tied with FBLA and all students are strongly encouraged to participate in FBLA competition. Students will acquire an understanding and appreciation of the need for leadership in their school and community. Students will work on several projects throughout the year. Course content includes: leadership traits and styles, business communication, business presentations, financial literacy, business computer applications, business ethics, and more. Also, students will research a career, prepare a resume, complete a job application, participate in a mock interview and write a thank you letter following the interview.

**HS11030,
HS21030**

Publications (10-12)

Two Semesters/1 Credit

Prerequisites: A minimum cumulative GPA of 3.0, three (3) teacher recommendations, and sponsor approval.

Publications is a practical art course that is designed as a workshop for producing the school yearbook. Students learn organization skills, creativity, and the basics of yearbook design. Students are required to sell advertising and work before and after school to maintain the production schedule. This course does not count toward the Communication Arts graduation requirement; however, students who enroll in this course for two years will receive a Fine Arts credit for the completion of the second year.

Agriculture

Beginning with the graduating class of 2023, students may earn a Science credit by taking 3 agriculture credits. This will count as one of the 2 additional science credits needed for graduation. However, this credit will not count as a college prep science course nor will it count as an NCAA course. Students must take Agriculture 1, Agriculture 2 and 1 upper level Agriculture class. Students must have a 70% or higher at the end of each semester for all courses to be eligible to substitute ag courses for 1 credit of science.

HS16019, HS26019 Agriculture Science I (9 – 12)

Two semesters/1 Credit

Prerequisites: None

This course is designed for instruction in animal science, agriculture mechanics, agricultural products, careers, leadership and supervised agricultural experience.

HS16020, HS26020 Agriculture Science II (10 – 12)

Two semesters/1 Credit

Prerequisites: Agriculture Science I

This course is designed for instruction in plant and crop sciences, soils, entomology, horticulture, forestry, and additional instruction in agricultural mechanics, careers, leadership and supervised agricultural experiences.

HS16022, HS26022 Agriculture Construction I & 2 (11 – 12)

Two semesters/1 Credit

Prerequisites: Agriculture Science I & 2

This course develops skills in planning and construction of major metal and wood shop projects related to agriculture. Students are required to select and build an approved project in this class.

HS16021, HS26021 Greenhouse (11 – 12)

Two semesters/1 Credit

Prerequisites: Agriculture Science I & 2

This course develops a basic understanding of greenhouse techniques. The production of greenhouse crops will be used to demonstrate procedures such as plants started from cuttings, seeds, grafts, and layering. Students will manage their own crop as a greenhouse project. This course also includes the production, arrangement and retailing of flowers. It includes fresh, silk or dried flowers to be used in the design of corsages, wedding bouquets, table flower arrangements and seasonal holiday decorations. The Missouri Record book for Secondary Students (SAE) and FFA will be continued in this class.

**HS16031, Agriculture Cooperative Education (11 –
HS26031 12)**

Two semesters/1 Credit

Prerequisites: Must have completed Agriculture Science I. Concurrent enrollment in another agriculture class and teacher recommendation is required.

This is a cooperative program which provides paid, on-the-job experience in the agriculture field. An agriculture class must be taken in conjunction with the work experience. The credit awarded for the on-the-job training will be one credit per school year for 10 hours of employment per week and two credits per school year for 20 hours of employment per week. Teacher's signature required.

**HS16018,
HS26018 Advanced Livestock & Crop Production**

Two semesters/1 Credit

Prerequisites: Must have completed Agriculture Science I and Agriculture Science II

This course focuses on a study in animal production, management, marketing, nutrition, breeding, production records, selection, animal health, waste management and biotechnology. It may also include units in growing systems, plant selection, production practices, harvesting, storing, marketing, fertilization, soils, conservation, chemicals, integrated pest management, water quality and biotechnology.

**HS16058,
HS26058 Food Science and Technology (11 – 12)**

Two semesters/1 Credit

Prerequisites: Must have completed Agriculture Science I and Agriculture Science II and teacher recommendation is required.

This course introduces the areas of food chemistry and nutrition, food additives, food packaging and labeling, evaluation of foods, food microbiology, food processing, food fermentation, principles of sanitation and quality control. Students in this class will take the state recognized ICR/TSA (test) in Food Science.

Family and Consumer Science

**HS16040,
HS26040 Intro to FACS (9-12)**

Two semesters/1 Credit

Prerequisites: None

This course is designed to help prepare students for multiple roles as individuals and family members. Emphasis is placed upon values clarification, decision making, consumer skills, personal and family relationships, parenting, nutrition and health, career exploration and entrepreneurship. Students should begin to develop leadership skills for family career and community life.

HS16042 Nutrition and Wellness I (9– 12)

One Semester/.5 Credit

Prerequisites: None

A course that prepares individuals to understand the principles of nutrition; the selection, preparation and care of food; meal management to meet individual and family food needs and patterns of living; food economics and ecology; optimal use of the food dollar; and application of related math and science skills. Student leadership (FCCLA) may be an integral part of this course. This class is paired with International Foods.

HS26056 International Foods (9 – 12)

One Semester/.5 Credit

Prerequisites: Nutrition and Wellness I

This International Cuisine course will broaden students outlook and includes the history, indigenous ingredients and impact of foods around the world; safety and food preparation methods used; and the ethnic and cultural relationships to the foods studied. While focusing on proper food preparation and procedures, students are introduced to international and ethnic specific cuisines. This includes instructions on the psychological, cultural, and social influences on food choices in world cuisine. Availability of foods due to food production, food supply, legislation and regulations are discussed. This instructional program includes the integration of leadership development through FCCLA membership and activities. This class is paired with Nutrition and Wellness 1.

HS16047,

HS26047 Fashion/Sewing I (9–12)

One Semester/.5 Credit

Prerequisites: Students will be required to purchase fabric and supplies.

This course prepares individuals to understand the psychological aspects of clothing and textiles, and introduces the students to: 1) basic clothing construction techniques, 2) clothing care and maintenance, 3) textiles information, and 4) consumer skills. Student leadership (FCCLA) may be an integral part of the course. This class is paired with Housing.

HS16049,

HS26049 Fashion/Sewing II (9–12) by arrangement

One Semester/.5 Credit

Prerequisites: Fashion/Sewing I and instructor approval. Students must purchase their own supplies for projects.

This course develops a more advanced knowledge and application of sewing skills. This course utilizes more advanced garment construction techniques, basic patternmaking/draping and expansion of applied textiles knowledge. Several garment and skill examples will be constructed during the semester. Self-initiative, motivation, time management, planning a, independent work, following directions and evaluating are crucial skills in this course where art, communication, mathematics, science and technology are applied. Students will be introduced to Family Career and Community Leaders of America which is the curricular career and technical student organization (CTSO) associated with Family and Consumer Sciences (FACS).

**HS16051,
HS26051 Housing (9–12)**

One Semester/.5 Credit

Prerequisites: None

This course introduces students to the behavioral, social, economic, functional and aesthetic aspects of housing, interiors, and other built environments. The course includes instruction in analyzing, planning, designing, furnishing, and equipping residential, work, and leisure spaces to meet user needs and the study of related public policies. The instructional program includes the integration of leadership development through FCCLA membership and activities. This class is paired with Fashion and Sewing 1 or 2.

HS16044 Child Development (11–12) 1st semester

One Semester/.5 Credit

Prerequisites: None

This course prepares individuals to understand children's physical, intellectual, emotional and social growth and development. This semester course will include study of child development theorists and theories, prenatal development, childbirth and development in the first year of life. Student leaderships (FCCLA) may be an integral part of this course. This course is paired with Family Living.

HS26046 Family Living (11–12) 2nd semester

One Semester/.5 Credit

Prerequisites: None

This course prepares individuals to understand the nature, function and significance of human relationship within the family/individual units. It includes instruction in the concepts and principles related to various family living conditions, including abuse prevention; the establishment and maintenance of relationships; the preparation for marriage, parenthood, and family life, and the socialization and developmental needs of individuals. The instructional program includes the integration of leadership development through FCCLA membership and activities. This course is paired with Child Development.

HS16053 FCCLA Leadership I (9– 12)

Two semester/1 Credit

HS26053

Prerequisites: FCCLA membership (approx. \$25)

This is a course that provides students with the opportunity to learn more about FCCLA, develop leadership potential, and assist with chapter service projects in the community. The purpose is to assist students in preparing for success in family, career and community life, promote personal growth, and develop leadership. Students will explore work, jobs, and careers related to family and consumer sciences and human services, solve problems that impact the family, and make decisions that support and strengthen the integration of multiple roles/responsibilities of individuals, family, career and community using FCCLA curriculum and programs. Participation in STAR Events, Power of Ones, Community Service, Competition and attendance at various events and meetings outside of class time are required components of this class.

HS16054 Career Development/Entrepreneurship (11 – 12)

One Semester/.5 Credit

Prerequisites: None

To assist Missouri citizens in acquiring career development/preparation and entrepreneurial skills, performance competencies in the Career Development/Entrepreneurship course taught in Family and Consumer Sciences Education programs enable students to: construct meaning related to career development/preparation and entrepreneurship; communicate effectively with employers and others related to work, career development/preparation and entrepreneurial information and skills; solve problems related to the development of entrepreneurship skills; and make responsible decision that impact career development and the establishment of entrepreneurial ventures.

Industrial Arts

HS16026,

HS26026 Wood Shop (9 – 12)

Two semesters/1 Credit

Prerequisites: None. Fee required. All students are required to pay for material for projects in advance.

This class is designed to teach the use of basic tools and develop skills necessary to woodworking technology. This exploratory class includes wood terminology and identification, measuring, layout, basic hand tools, and machine tools, joint construction, blueprint reading and finishing techniques. There will be opportunities for advanced students to work on more difficult projects at instructor's discretion. Fee required. All students are required to pay for material for projects in advance.

Personal Finance

HS16035,

HS26035 Personal Finance (11 – 12)

One Semester/.5 Credit

Prerequisites: None

The intent of this course is to inform students how individual choices directly influence occupational goals and future earning potential. Real world topics covered will include income, money management, spending and credit as well as saving and investing. Students will design personal and household budgets, utilize checking and savings accounts, gain knowledge in finance, debt and credit management, and evaluate and understand insurance and taxes. This course provides a foundation for making informed personal financial decisions.

Physical Education

HS15000,

HS25000 Boys PE (9)

Two semesters/1 Credit

Prerequisites: None

This class will be broken up into 2 sections. 1. Lifetime sports: Students learn teamwork and personal interaction through activities such as basketball, flag football, soccer, tennis, badminton, ultimate Frisbee and Ping Pong. Physical education develops knowledge and habits of a lifetime of physical fitness. 2. Personal Fitness: Students will work to improve their physical fitness level. This portion of the class will be adapted to the student's ability level with the goal of cardiovascular and muscular improvement throughout the year. We will spend weekly time in the weight room, among other activities, to help the student reach these goals.

HS15002,

HS25002 Girls PE (9)

Two semesters/1 Credit

Prerequisites: None

This class will be broken up into 2 sections. 1. Lifetime sports: Students learn teamwork and personal interaction through activities such as basketball, flag football, soccer, tennis, badminton, ultimate Frisbee and Ping Pong. Physical education develops knowledge and habits of a lifetime of physical fitness. 2. Personal Fitness: Students will work to improve their physical fitness level. This portion of the class will be adapted to the student's ability level with the goal of cardiovascular and muscular improvement throughout the year. We will spend weekly time in the weight room, among other activities, to help the student reach these goals.

HS15017, Lifetime Activities (10 –
HS25017 12)

Two semesters/1 Credit

Prerequisites: None

Lifetime Activities develops knowledge and habits for a lifetime of physical fitness. Students will learn a variety of rules, skills, fundamentals and strategies in a variety of individual and dual sport activities. Safety and sportsmanship will be

emphasized. Activities include but are not limited to: badminton, pickleball, basketball, softball, ultimate Frisbee, table tennis and other individual and dual sports. District mandated fitness gram will be administered in pre and posttest form.

**HS14996B,
HS24996B,
HS14996G,
HS24996G Athletic Weights (9-12) Two semesters/1 Credit**

Prerequisites: Students must be involved in at least one interscholastic sport.

The purpose of this class is to expose the student to a number of different methods of strength training. After completion of the course, students will be independently capable of organizing, initiating, and continuing a weight-training program. The purpose of this course is to develop strength and fitness through weight lifting.

**HS14997,
HS24997 Boys Strength & Conditioning (9-12) Two semesters/1 Credit**

Prerequisites: None

Strength & conditioning provides students with a basic weight training program. This class is focused on improving your physical fitness with workouts focused on both your muscular and cardiovascular systems. This is a “WORKOUT CLASS” and you will be expected to WORKOUT every day. You will be evaluated on daily participation and improvements made throughout the year. Strength & Conditioning helps students develop skills and knowledge to maintain a lifetime of physical fitness.

**HS14998,
HS24998 Girls Strength & Conditioning (9-12) Two semesters/1 Credit**

Prerequisites: None

Strength & conditioning provides students with a basic weight training program. This class is focused on improving your physical fitness with workouts focused on both your muscular and cardiovascular systems. This is a “WORKOUT CLASS” and you will be expected to WORKOUT every day. You will be evaluated on daily participation and improvements made throughout the year. Strength & Conditioning helps students develop skills and knowledge to maintain a lifetime of physical fitness.

HSS4999 Advanced PE for Summer School (9-12) Two semesters/1 Credit

This is a SUMMER SCHOOL course and is listed here for informational purposes only in helping you decide about fulfilling the PE credit. It is NOT a course you would list at a requested course for the school year.

Students will participate in a variety of advanced physical education activities including fitness testing, learning a variety of skill sets and rules for recreational activities, learn proper warm up and cool down exercises and identify/use major muscle groups that are engaged during specific exercises and activities. The goal of this class is to develop muscular strength, speed, agility, and flexibility along with the required skills for a healthy active lifestyle. In order to earn a ½ (.5) credit for the course, students must attend a minimum total of 60 hours in the Advanced PE course for the summer session. Every student who completes the course work will receive a ½ credit to go towards the high school graduation requirements. If the PE requirement is already fulfilled the courses will be counted as an elective credit. Students may also choose to take the course for no credit.

Additional Electives

HS16060,

HS26060

Cadet Teaching (12)

One semester/ .5 Credit

Prerequisites: Students must have a signed A+ agreement on file and be in good standing as an eligible A+ student including the qualifications of 95% overall attendance, GPA of 2.5, and good citizenship with no major infractions. Space is limited, so please intend to use the A+ funds after high school. The A+ Coordinator's signature is required. A written essay must be submitted with specific academic and career goals to be considered for the second semester of cadet teaching.

Cadet teaching is a program designed to interest and help high school students who are considering a career in education. It is an elective course that gives seniors the opportunity to work in a classroom under experienced, enthusiastic teachers in order to gain an understanding of what teaching involves. A limited number of positions are available based on the number of cooperating teachers within the school district. This course will meet the A+ requirement for 50 hours of tutoring/mentoring. Students who take a second semester will also be required to tutor for an additional 50 hours. First semester is shorter than second semester, so qualifying hours may not be obtained without job shadowing on your own time.

HS16066,

HS26066

Office/Library Assistant (12)

Two semesters/1 Credit

Prerequisites: Students must have a minimum cumulative GPA of 3.0, 95% attendance, and have approval from the office. Please check your transcript for the qualifying criteria.

This course allows students to be an assistant in the main office or the library. Students will be assigned as needed each hour. Students should check their qualifying GPA and attendance then get a signature from the main office staff or the library staff on the enrollment form. Students will assist in the everyday activities including delivering messages, making copies, running errands, and other duties as assigned.

**HS17066,
HS27066**

FLEX WORK (11 &12)

Two semesters/1 Credit

Prerequisites: Application required with qualifying criteria

FLEX is a program for students who would like to pursue employment and/or college enrollment during the school day. The requirements are the following: 1) Must be a student in grades 11 or 12. 2) School hours available for FLEX are 1st or 7th hours for Juniors and 1st and 2nd hours OR 6th and 7th hours for Seniors. 3) Students must be in good standing in regard to timely graduation and pursue regular requirements for a diploma. 4) Provide evidence of enrollment and attendance at a college or technical school OR provide evidence of employment that is aligned with the student's "career academic plan." 5) Maintain a 95% cumulative attendance rate. 6) Avoid suspension or expulsion while in the program.

Students will earn elective credit. Students who lose their job or are unable to maintain their Flex Work Status may be given community service obligations with local area organizations to fulfill their Flex Work obligations. Students who cannot fulfill those obligations will be placed back in the regular education setting and will receive an "F". Students will not be eligible for Academic Letter. Students who do not fulfill their Flex requirements may jeopardize their graduation ceremony participation. Paystubs and/or work calendars signed by a supervisor must be turned in to the counseling office after every pay period or at a minimum every two weeks. Failure to do so could result in failing FLEX. A written career academic plan must be in place for each participating student, setting forth specific graduation and career objectives. Students may receive pay for their employment. Off-campus programs must be well-planned and adequately supervised by school personnel to ensure the school districts' eligibility for state funds and to justify the awarding of high school credit.

**HS16065,
HS26065**

Technology Assistant (12)

Two semesters/1 Credit

Prerequisites: Students must have a cumulative GPA of 3.0, 95% attendance and have approval from the Director of Technology and Principal.

Seniors who are interested in entering the Computer Technology field will assist in every day operations of the Technology Department. Duties include computer repair (hardware and software related), network maintenance and upgrades, and general technology-related tasks as assigned by the Director of Technology. Student assistants must sign a Confidentiality Agreement. Violation of this agreement would be immediate failure and withdrawal from the class. Must be able to climb a ladder and lift 20 pounds. Director of Technology's signature required.

**HS13020,
HS23020**

Civil Leadership (9-12)

Two semesters/1 Credit

Prerequisites: Appointment to Student Council, a minimum cumulative GPA of 2.5, 90% attendance and teacher approval.

This course is designed for Student Council members. The primary focus is to develop leadership skills and serve the student body at Seneca High School. Leadership development will occur through emphasis in these areas: Service learning, social activities, school spirit, and project planning. Students will also study aspects of the school system structure, current events and public policy to prepare them to be life-long leaders. Students will be required to participate in activities before, during and after school on a number of occasions.

Crowder College Technical Education Center

All students wishing to attend Crowder College Technical Education Center must complete an application and participate in an interview with CTEC faculty. Most programs at CTEC are two-year programs, so they may be repeated for credit. Students in their 2nd year at CTEC have the opportunity to receive “Embedded English and Embedded Math” credits upon completion of required assignments and projects given by the CTEC program. Students are awarded 1 English credit, 1 Math credit (cannot be used for the required Algebra requirement) and 1 Elective credit their senior year (if all requirements are met) in place of the 3 Practical Arts credits.

Because CTEC students are preparing for Certification in their programs, every school day and hours spent in the program are valuable. Students will sometimes be expected to attend CTEC when Seneca schools are not in session; this includes Monday attendance at CTEC.

Dual Credit through CTEC

Most junior and senior CTEC classes have the OPTION of earning dual credit, if they qualify. Students have the opportunity to graduate from high school with a Crowder College Certificate in most programs, as well as, pursuing additional college certificates or degrees after high school.

Crowder Technical Education Center strives to provide students with the opportunity to gain skills needed to pursue post-secondary education through dual credit and industry credentials. Depending on the course work for each program:

- High school students will be required to meet Accuplacer scores and prerequisites prior to enrolling in college classes, if applicable.
- High school students will have the opportunity to take Dual Credit Courses, if they are interested in doing so and meet the requirements.
- Students that participate in this program will be responsible for any and all fees incurred with their college coursework. Tuition fees are set by the college.

- Each student will be advised individually. The purpose of these programs is to meet the educational needs of students wishing to continue their college careers, or become career ready.
- All students have the ability to graduate with a National Career Readiness Certification.

All CTEC programs are ½ day meaning you will miss 3-4 courses at SHS depending on AM/PM scheduling availability at CTEC.

HS17117, HS27117

Advanced Manufacturing I (11)

Two Semesters/3 credits

HS17217, HS27217

Advanced Manufacturing II (12)

Two Semesters/3 credits

The Advanced Manufacturing Technology program prepares students for employment in industries with automated manufacturing processes. The program is built around a set of core courses designed to give students the basic skill set required for this industry coupled with specialty courses allowing students to focus on various related options. This program of study addresses Programmable Logic Controllers (PLC). The PLC certificate will provide general and advanced training in programmable logic controllers as they are used in industry to manage multiple automated processes. Successful graduates will possess the ability to perform entry level maintenance and repairs to industrial automated equipment. This certificate prepares students to enter a career in industrial technology with a basic skill set that will provide entry level knowledge of basic electricity, motor controls, and programmable logic controllers (PLC).

Dual Credit Opportunities:

Even Years

AMT 111 Introduction to Industrial Safety (1 credit hour)

AMT 102 Introduction to Industrial Electricity (3 credit hours)

AMT 104* Electrical Motor Controls (3 credit hours)

AMT 142* Manufacturing Mechanics (3 credit hours)

Odd Years

AMT 111 Introduction to Industrial Safety (1 credit hour)

AMT 204* Programmable Logic Controllers I (3 credit hours)

AMT 206* Programmable Logic Controllers II (3 credit hours)

HS17102, HS27102

Automotive Technology I (11)

Two Semesters/3 Credits

HS17202, HS27202

Automotive Technology II (12)

Two Semesters/3 Credits

The Automotive Technology program prepares students for employment in repair shops, auto parts stores and vehicle dealerships. The program is built around a set of courses designed to give students the basic skill set required for the automotive industry as well as allowing students to focus on other related options. This Program of Study addresses Braking System, Electrical Systems, Engine Control and Suspension and Steering. Students can earn a certificate in each of those areas. Successful graduates will

possess the ability to effectively work on various components of a vehicle. The class consists of hands on shop work and theory in the classroom, with the intent to provide students with the tools necessary to become successful in the automotive field.

Dual Credit Opportunities:

Fall Semester Odd Years

AUTO 225 Automotive suspension & Steering (5 credit hours)

Spring Semester Even Years

AUTO 115 Engine Repair (5 credit hours)

Fall Semester Even Years

AUTO 125 Automotive electrical Systems (5 credit hours)

Spring Semester Odd Years

AUTO 124 Automotive Braking Systems (4 credit hours)

HS17120, HS27120

Building Trades I (11)

Two Semesters/3 Credits

HS17220, HS27220

Building Trades II (12)

Two Semesters/3 Credits

The Building Trade program prepares students for entry-level employment in the construction industry. This program is built around a set of core skills and courses which are approved by NCCER (National Council for Construction Education and Research). The Program of Study addresses construction safety common hand/power tools, basic carpentry, framing/finishing, plumbing and residential wiring. Successful Graduates will possess the ability to perform entry level construction duties and the basic skill set necessary for a career in the construction industry. Students will be OSHA 10 certified and will receive their NCCER registration in each program module.

Dual Credit Opportunities:

Odd Years

CONS 105 Introduction to Construction Technology (3 credit hours)

Even Years

CONS 112 Carpentry Fundamentals (3 credit hours)

HS17107, HS27107

Computer Technology I (11)

Two Semesters/3 Credits

HS17207, HS27207

Computer Technology II (12)

Two Semesters/3 Credits

The Computer Technology program prepares students for a career in the Information Technology/Services field. The Program is built around a set of core courses designed to give students the basic skill set required for this industry, coupled with specialty courses allowing students to focus on various related options. The Program of Study addresses computer repair and maintenance and support both in theory and working hands on in the lab. Students will gain skills including: PC repair, troubleshooting, computer maintenance, basic electronics, and intro to coding and gaming design. Successful graduates will possess the ability to perform

maintenance, repair and support within the Information Technology area and are prepared to test for COMPTIA A+.

Dual Credit Opportunities:

Odd Years

CNS 111 PC Basics I (3 credit hours)

CNS 101 Intro to Electronics (3 credit hours)

Even Years

CNS 112 PC Basics II (3 credit hours)

HS17122, HS27122

Criminal Justice I (11)

Two Semesters/3 Credits

HS17222, HS27222

Criminal Justice II (12)

Two Semesters/3 Credits

The Criminal Justice program prepares students for employment in many areas of Law Enforcement. This program is built around a set of core courses designed to give students and overview of this career path coupled with specialty courses allowing students to focus on various related options. This Program of Study addresses law enforcement, the courts, corrections and crime scene investigation in a cadet style class room. Students will learn theory in the classroom and practical applications through hands on experiences. Successful graduates will possess the ability to perform entry level skills necessary in many of the career options in Law Enforcement and Criminal Justice field. Students will receive their Missouri Police Officers Association Certificate and Police One Certifications.

Dual Credit Opportunities:

Fall Semester of Odd Years

CJ 101 Introduction to Criminal Justice System (3 credit hours)

CJ 265 Ethics (3 credit hours)

Spring Semester Odd Years

CJ 103 Telecommunications (3 credit hours)

CJ 210 Criminal Procedures (3 credit hours)

Fall Semester Even Years

CJ 250 Criminal law (3 credit hours)

CJ 102 Crime Scene Processing (3 credit hours)

Spring Semester Even Years

CJ 280 Report Writing (3 credit hours)

CJ 190 Patrol Operations (3 credit hours)

HS17103, HS27103

Diesel Technology I (11)

Two Semesters/3 Credits

HS17203, HS27203

Diesel Technology II (12)

Two Semesters/3 Credits

The Diesel Technology program prepares students for employment within the Diesel Technology field. This program is built around a set of core courses designed to give students the basic skill

set required for this industry, coupled with specialty course allowing students to focus on various related options. This program of student addresses Brakes, Electrical Systems, steering and Suspension Engine Performance and preventative Maintenance for working in the Diesel industry. Successful graduates will possess the ability to effectively work on various components of Diesel vehicles.

Dual Credit Opportunities:

Fall Semester Odd Years

DIES 204 Diesel Powertrains (4 credit hours)

DIES 184 Diesel Electrical/Electronics I (4 credit hours)

Spring Semester Even Years

DIES 284 Diesel Electrical/Electronics II (4 credit hours)

DIES 164 Diesel Brake Systems (4 credit hours)

Fall Semester Even Years

DIES 124 Preventative Maintenance (4 credit hours)

DIES 144 Diesel Engines I (4 credit hours)

Spring Semester Odd Years

DIES 294 Diesel Engines II (4 credit hours)

DIES 224 Diesel Steering and Suspension (4 credit hours)

HS17114, HS27114

Health Sciences I (11)

Two Semesters/3 Credits

HS17214, HS27214

Health Sciences II (12)

Two Semesters/3 Credits

The Health Science program prepares students for employment in the health Care field. The program is built around a set of core courses, including health Science I and II. These courses are designed to give students the basic skill set to enter some areas of the Health Care Field. This Program of Study addresses Medical Terminology, anatomy, Physiology, CPR, First Aid, and Home Health during their junior year in Health Science I. The Program of Study in Health Science II addresses Phlebotomy, Pharmacology, and Certified Nurse Assistant, including hands on experience at clinical sites during their senior year. Successful graduates will possess the ability to perform entry level health Occupations such as Home health Aide and may test for their Phlebotomy and Certified Nurse Assistant Certifications.

Dual Credit Opportunities:

Junior Year

NURS 105 Medical Terminology (3 credit hours)

ACCH 130 Basic Pharmacology (3 credit hours)

Senior Year

CNA 101 CNA Techniques (5 credit hours)

CNA 105 CNA Clinical Experience (2 credit hours)

ALLH 106 Phlebotomy (3 credit hours)

HS17129, HS27129

Teacher Preparation I (11)

Two Semesters/3 credits

HS17229, HS27229

Teacher Preparation II (12)**Two Semesters/3 credits**

The Teacher Preparation Program prepares students to enter the field of Education within the K-12 environment. The program is built around a core set of courses designed to give students a head start on a career in Education, as well as an introduction to the classroom. This Program of Study allows students to have the opportunity to observe classrooms in the local school districts in a variety of grade levels and fine arts such as art, music, and physical education.

Dual Credit Opportunities:**Fall Semester Junior Year**

EDUC 125 Introduction to Education (3 credit hours)

Spring Semester Junior Year

EDC 103 Health, Safety, & Nutrition of Young Children (3 credit hours)

Fall Semester Senior Year

PSYC 101 General Psychology (3 credit hours)

Fall Semester Senior Year

EDUC 240 Education of Exceptional Learners (3 credit hours)

HS17106, HS27106**Welding Technology I (11)****Two Semesters/3 Credits****HS17206, HS27206****Welding Technology II (12)****Two Semesters/3 Credits**

The Welding Technology program prepares students for employment in the welding industry. The program is built around a set of core courses designed to give students the basic skill set required for the industry coupled with specialty courses allowing students to focus on various areas of welding. This Program of Study addresses learning multiple hands on welding techniques, blue print reading, and welding symbols. This includes but is not limited to ARC Welding, MIG Welding, and TIG Welding. Success graduates will receive their AWS Welding Certificate and their 10 Hour OSHA certification. This certificate prepares students with a basic skill set necessary for a career in the welding industry.

Dual Credit Opportunities:**Junior Year**

Weld 160 Plate Methods I (7 credit hours)

Fall Semester Senior Year

WELD 117 Blue Print Reading (2 credit hours)

Senior Year

WELD 165 Plate Methods II (7 credit hours)

Senior Only CTEC Programs

All programs are ½ day at CTEC

HS17211, HS27211

Commercial Truck Driving (12)

Two Semesters/3 credits

The one-year Commercial Truck Driving program prepares students for entry-level positions in the trucking, transportation, distribution, and logistics industries. Students have the opportunity to explore career opportunities and requirements of a professional tractor trailer driver. Upon completion of the program, student's will be prepared to obtain a Commercial Learner's Permit and/or CDL.