Hamilton High School

Course Description Guide
2021 - 2022

This guide is available online at www.hamiltonisd.org.

HAMILTON HIGH SCHOOL

611 South College

Hamilton, Texas 76531

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Learn Today – Lead Tomorrow

Administration:

Clay Tarpley, Superintendent

Jennifer Zschiesche, Assistant Superintendent

Gina Poe, High School Principal

Mona Gloff, Middle School Principal

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Board of Trustees:

Millie Shinn, Pres.
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Purpose of Program Guide

Students and Parents of

Hamilton High School

Dear Students and Parents:

This year we are welcoming the classes of ‘22, ‘23, ‘24 and the new 9th grade class, Class of 2025! We are preparing to make your high school experience the very best possible. Together with the current student body and the excellent dedicated staff at Hamilton High School we will do just that!

You are holding in your hands one of the most important documents we have at Hamilton High School. Often we speak to our students about making good decisions, but we know that good decision-making depends more than anything else on reliable information. Information you can depend on is exactly what we believe our Curriculum Guide offers.

Making decisions about course selection, however, also depends on how you use this document. I suggest you start by considering how important the classes you take in high school are to your future, your options, and your competitive position among other candidates for future work and advancement. At Hamilton High School, “Learning Today, Leading Tomorrow,” we strive to make all of your classroom experiences gainful in relation to your future. If you embrace these classroom experiences with your future in mind, you are on your way toward success.

Graduation requirements make up only part of your choices. College entrance requirements will add more if that is your direction. Students, be sure to involve your parents and your counselor but most of all, look within yourself for the content knowledge and skills that make most sense to you.

It is important to note that not every course listed in this guide will be taught each school year. Additional courses may be added as they become necessary and/or available.

Students and/or parents who have questions are encouraged to contact Mrs. Betsy Killian, Counselor, or Mrs. Gina Poe, Principal, for additional information by calling (254) 386-8005.

Best wishes! Students, I hope your years as a Bulldog will be filled with positive learning experiences and that you will have a hopeful future by making high school your priority today.

Warmest Regards,

Gina Poe

Graduation Plans

Students graduating from a Texas high school must complete graduation requirements outlined by the state and receive a passing score on five End of Course (EOC) Exams including Algebra 1, Biology, U.S History, English 1, and English 2. Each student will graduate under one of the graduation plans. All students automatically start under the FHSP with Endorsement. High school courses taken in middle school will earn credit toward graduation.

The state legislature amended the current admission eligibility requirements for students applying to any four-year public education institution. Only applicants who have completed the Foundation Plan with Endorsement or Distinguished Level of Achievement are eligible to apply for admission to a four-year Texas institution. This also applies to students eligible for automatic admission by graduating in the top ten percent of their class. In addition, this law further states that institutions of higher learning shall admit any applicant who is the child of a public servant killed or having sustained a fatal injury in the line of duty. Applicants need to meet the minimum requirements of the institution.

If a student wants to graduate under the Foundation High School plan without an endorsement, the student must attend a meeting with the counselor and a parent/guardian to discuss post-secondary impacts.

High School Graduation Requirements

Foundation High School Plan (FHSP) – 22 credits
(4) English
(3) Math - including Algebra and Geometry
(3) Science - including Biology and Chemistry, Physics or IPC
(3) Social Studies - including US History, Government and Economics and either World Geography or World History
(2) Languages Other Than English - Level 1 and II of the same language
(1) Fine Arts
(1) Physical Education – PE class or Marching Band, Drill Team, Cheerleading can substitute for PE
(5) Electives

Foundation High School Plan (FHSP) with Endorsement – 26 credits
(4) English
(4) Math - including Algebra and Geometry
(4) Science - including Biology and Chemistry or Physics
(3) Social Studies - including US History, Government and Economics and either World Geography or World History
(2) Languages Other Than English - Level 1 and II of the same language
(1) Fine Arts
(1) Physical Education – PE class or Marching Band, Drill Team, Cheerleading can substitute for PE
(7) Electives

Foundation High School Plan (FHSP) with Endorsement and Distinguished Level of Achievement – 26 credits
(4) English
(4) Math - including Algebra, Geometry and Algebra 2
(4) Science - including Biology and Chemistry or Physics
(3) Social Studies - including US History, Government and Economics and either World Geography or World History
(2) Languages Other Than English - Level 1 and II of the same language
(1) Fine Arts
(1) Physical Education – PE class or Marching Band, Drill Team, Cheerleading can substitute for PE
(7) Electives

** Foundation High School Plan (FHSP) is the minimum requirements to graduate from a Texas High School. Students may not consider this plan until both their 16th birthday and the completion of 10th grade.*
*** Some endorsements require more than the credits listed above. For more information on endorsements and performance acknowledgements see pages 3-4*

A Hamilton Independent School District graduate will be expected to:

Demonstrate success in college or further study and for employment in a global society

- Initiate independent learning
- Understand world issues and current events
- Understand and use effective learning techniques to acquire and apply knowledge

Demonstrate social awareness

- Develop and maintain positive relationships
- Know and appreciate cultural and linguistic diversity
- Exhibit an appreciation of the arts and humanities
- Commitment to service

Exhibit strong personal qualities

- Identify personal goals
- Demonstrate value of self
- Understand and engage in activities that promote intellectual, physical, and emotional balance
- Demonstrate integrity and take personal responsibility

Communicate effectively

- Express ideas and information confidently and effectively in a variety of modes of communication
- Work in collaboration with others

Use technology as a tool

- Select appropriate tools and procedures
- Use technology to access, analyze, organize, and process information

Exhibit creative thinking, critical thinking, and problem solving

- Explore ideas and issues for understanding
- Draw well-reasoned conclusions and solutions
- Analyze and evaluate thinking with a view to improve it

Hamilton High School Course Guide	Graduation Requirements	
Graduating Requirements for Students Entering 9th Grade in 2014-2015 or After		
GRADUATION YEARS: 2018+		
	Core Curriculum	**Enrichment Curriculum**
FOUNDATION HIGH SCHOOL PLAN	Mathematics (3 Credits) * Algebra I * Geometry * Math Models OR Algebra II	Physical Education or Alternative (1 Credit) * Athletics or PE
	Science (3 Credits) * Biology * IPC or Advanced Science * Advanced Science	Languages Other Than English (2 Credits) * Spanish I * Spanish II
	English Language Arts (4 Credits) * English I * English II * English III * English IV or Advanced English	Fine Arts (1 Credit) * Art * Band
	Social Studies (3 Credits) * World Geography or World History * U.S. History * Government (1/2 Credit) * Economics (1/2 Credit)	Electives (5 Credits) * Ag * Business * FCCLA * 2 Endorsement Area Credits
	Total Credits: 22	
WITH ENDORSEMENT	Math (1 additional credit for a total of 4) * Advanced Math	Electives (2 additional credits for a total of 7) * Endorsement Area Credits * "Free" Elective Credits
	Science (1 additional credit for a total of 4) * Advanced Science	
	Total Credits: 26	

Students must also pass STAAR End of Course Exams for Algebra I, Biology, English I, English II, and U.S. History.

Graduating Requirements for Students Entering 9th Grade in 2014-2015 or After

GRADUATION YEARS: 2018+

All incoming freshmen beginning with the 2014-2015 school year, will be required to complete graduation requirements under the Foundation Plan and select an endorsement area for additional credits. This new program offers students flexibility in planning their path to graduation. Students will be required to meet with their counselors to determine their own Personal Graduation Plan.

Endorsement Options:

To earn an endorsement, students complete a sequence of courses in an area of interest within one of the five endorsement groupings:

Arts and Humanities Endorsement:
Students who choose to pursue the Arts and Humanities endorsement may be interested in a variety of areas such as political science, world languages, cultural studies, English literature, history, and fine arts. The Arts and Humanities endorsement offers students many opportunities for coursework in areas of interest including: Sociology & Psychology, Government & Politics, Performing Arts, Visual Arts, and World Languages,

Endorsement Requirements:
4 math credits
4 science credits
A sequence of one of the following
- o 4 years of Band or Art
- o 4 years of Spanish
- o 5 Social Studies Credits including World Geography and World History

Business and Industry Endorsement:
Students who choose to pursue the Business and Industry endorsement may be interested in a variety of areas such as accounting, architecture, construction, audio/video production, culinary arts, computer maintenance, management, welding, HVAC, marketing, sales, and more. The coursework required in this endorsement allows for flexibility based on the student's area of interest.

Endorsement Requirements:
* 4 math credits
* 4 science credits
* A coherent sequence of courses from no more than TWO of the following areas
o Agriculture, Food, and Natural Resources
o Arts, Audio/Visual Technology,
o Hospitality and Tourism
o Marketing and Finance

Public Services:
Students who choose to pursue the Public Services endorsement may be interested in a variety of areas such as education, law enforcement, culinary arts, hospitality, law, and government.

Endorsement Requirements:
* 4 math credits
* 4 science credits
* A sequence of one of the following:
  - o Cosmetology I & II

Science, Technology, Engineering & Mathematics (STEM) Endorsement:
Students who choose to pursue the STEM endorsement may be interested in a variety of areas such as health sciences, computer programming, graphic design, architecture, information technology, engineering, automotive technology, and more. The coursework required in the STEM endorsement emphasizes advanced science and mathematics.

Endorsement Requirements:
* One of the following sequences:
o 5 math credits including Algebra II and two advanced math courses.
o 5 science credits including Chemistry and Physics and an additional advanced science course.

Multidisciplinary Endorsement:
Students who choose to pursue the Multidisciplinary endorsement may be interested in more than one area of study. This endorsement allows a student to earn credits in a variety of advanced courses from multiple content areas. Students may select courses from the curriculum of each endorsement area. The purpose of this endorsement is to allow students to pursue a broad-based education which includes advanced classes and prepares students for postsecondary education and/or the workforce.

Endorsement Requirements:

*4 credits in each of the core subject areas including Chemistry and/or Physics
* A combination of four advanced courses from the following areas
* Advanced Placement Courses (not Pre-AP)
* Dual Credit Courses

Performance Measures:
Students have the option of earning a Performance Acknowledgement, which is noted on the official high school transcript. This is not a graduation requirement, but allows students to obtain an acknowledgement for outstanding performance in different areas including:
* Dual Credit courses
* Associate Degree earned as HS student
* Advanced Placement (AP) courses
* International Baccalaureate (IB) courses
* ACT and SAT scores
* Language acquisition
* Earning a state or nationally recognized certificate or license

Distinguished Level of Achievement:
Students taking Algebra II and Chemistry or Physics qualify the student for the Distinguished Level of Achievement diploma. This can translate to additional opportunities after graduation, automatic college admission, and increase eligibility for financial aid.

Course Requests / Schedule Changes

Course requests will be final August 10, 2021. After this time, requests for changes may be considered based upon course availability. Students who are concerned about any course request should sign up to see a counselor prior to the June 11 deadline. A request to change a course/drop a level will likely change the student's entire schedule. We do not overload classes to make schedule changes. If we need to switch multiple courses to keep them balanced, we will do that.

Transfer Students

A student transferring into the District from a TEA accredited school (or an American school located outside the country) will receive the numerical grade earned in courses from that school. Weighted courses will be honored and converted to match our system. Students from other countries will receive Ps for passing in appropriate courses. Letter grades will be converted as follows:

A+ = 100	A = 95	A- = 90
B+ = 89	B = 85	B- = 80
C+ = 79	C = 77	C- = 75
D+ = 74	D = 72	D- = 70
	F = 69	

Credit by Exam/Correspondence

Credit by acceleration is offered during the summer through HISD. Registration begins in the spring and is free to all students. Students must earn at least an 80 to receive credit for the course. Testing is also available during the school year but is scheduled individually. High school students who desire to take a credit by exam during the school year should contact their campus counselor to complete the registration process. Credit for recovery is available any time during the year. This expense is incurred by the student. Students must earn at least a 70 to recover credit for a course. All credits earned over the summer must be turned into the high school counseling office before the first day of classes in order to make sure students are enrolled in the correct course for the year.

Correspondence courses are available through Texas Tech University. All costs are incurred by the student. Students are responsible for enrolling and ordering all their own materials. Tests can be proctored in the counseling office, but a time must be scheduled ahead of time.

Summer School

Courses are offered in the summer for advancement and for recovery, due to failure of a course or not meeting compulsory attendance requirements. Tuition is set by the district and paid for by the student. Free and reduced prices are offered. Details about summer school are released in late spring each year. Contact your counselor to make sure you are signing up for courses you need for graduation.

Minimum Course Load

All students are required to enroll in eight classes (or equivalent) each semester with the following exceptions: Seniors may take a total of two periods of no credit (i.e., no class, aide, etc.) If students choose to have no class one period it must either be 1st or 8th period.. Juniors may take only one period of no credit and that must be a student aide period.

Working During School Hours

Students may be employed during school hours only if enrolled in a career preparation program. Because employment is a required component of the programs, these programs are only open to juniors and seniors. Career preparation training programs are designed to provide occupationally specific training. The training is planned and supervised cooperatively by the school and employers. A student is required to work 15 hours per week. If not scheduled for a class, the student must be off campus.

Algebra II Graduation Notification

In accordance with Texas Education Code 28.02123, we are providing the following notification regarding certain high school graduation requirements to all parents and guardians of students in grades 9-12. Students are not required to complete Algebra II to graduate under the foundation high school program; however, there are potential consequences when students do not complete this course including the following: (1) Automatic college admission for eligible students (2) Eligibility for financial aid under Title 3 including: TEXAS grant program and The Texas Educational Opportunity Grant Program.

NCAA (National Collegiate Athletic Association)

Bylaw 5-1-(j) -- Students entering NCAA Division I, II institutions as freshmen who wish to receive financial aid and wish to practice and compete on an intercollegiate level must be certified by the Eligibility Center. To be certified by the Eligibility Center, students must (1) apply for certification in your junior year of high school. The Eligibility Center will issue a preliminary certification report when you have had all your materials submitted. After you graduate, the Eligibility Center will review your final transcript to make a final certification decision according to NCAA standards. Apply for certification at www.eligibilitycenter.org (2) earn a grade-point average of at least 2.00* (on a 4.00 scale) in a core curriculum of at least 16 academic courses which were successfully completed during grades 9 through 12. Only courses that satisfy the NCAA definition of a core course can be used to calculate your NCAA GPA (3) have a core-course GPA and a combined score on the SAT Verbal & Math sections or a sum score on the ACT based on the qualifier index scale. The qualifier index can be found at www.eligibilitycenter.org (4) receive certification of amateur status. When registering for the Eligibility Center, you must complete the Amateurism Survey found at www.eligibilitycenter.org (5) traditional school credits are the only credits accepted by NCAA. Correspondence, credit by exam, credit recovery and night school are not accepted.

Dropping a Class with a Failing Grade – UIL Eligibility

As stated in the TEA & UIL Side-by-Side, dropping a class with a grade lower than 70 at the end of a grading period causes a student to lose eligibility until 7 calendar days after the end of the 3-school week evaluation period. Dropping an advanced class which is exempted from “no pass, no play” does not cause loss of eligibility at any time unless full time status is affected.

Courses with Additional Entry Requirements

Remedial Course Criteria

1) Student has scored below grade level on standardized achievement test; OR 2) Student has failed to master one or more areas of the most recent EOC; OR 3) Student is recommended by teacher, counselor, or principal for this course

Honors Classes

All Honors courses are open to any student wishing to pursue rigorous academic challenges. These courses are considered upper level, advanced courses. Students should expect that the workload will be greater than a regular course in that discipline. Only students wishing to challenge their academic and intellectual boundaries should enroll in Honors classes. Outside projects will be required and emphasis will be on critical thinking skills.

Dual Credit Courses

Dual credit courses are courses in which students may earn both high school and college credit simultaneously. Candidates for dual credit courses must be in their sophomore, junior or senior year and meet CTC eligibility requirements, including successful testing on the TSI. More information on eligibility can be obtained by contacting Hamilton CTC Coordinator, Jeff Rankin, at 386-8009. Please note that there may be required fees for tuition and/or books. Dual credit courses are delivered in a variety of manners including: during the school day by staff employed through CTC and HISD, online during the school day and monitored by HISD staff, evenings and/or summer CTC courses. Classes taught during the school day are 2 semester courses unless otherwise noted in the course description. Additional dual credit classes are sometimes available through Central Texas College. These classes must be scheduled through both the CTC counselor and the Hamilton High School counselor.

English/Language Arts

1st English Credit Options

English I - (1 credit)

Course Number: 1004

Prerequisite: None

In English I, students strengthen skills in reading analysis and communication. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze text, write in multiple modes, research, listen, and speak. This course focuses on literature that highlights the theme of Coming of Age. Building on their knowledge of literary elements in traditional literary genres, students study the relationship between narrative voice and style, while also analyzing literary and stylistic elements in film and literature. They develop persuasive writing skills by using rhetorical appeals. Performance and oral interpretation of literature build students' speaking and listening skills. Research continues to play an important role as students evaluate social, cultural, and historical influences on texts. Through the use of multiple learning and instructional strategies, students acquire not only the knowledge they need but also the confidence in their own abilities to learn and to communicate effectively in real-world situations. This course will require an End of Course Exam.

Honors English 1 - (1 credit)

Course Number: 1105

Prerequisite(s): teacher recommendation and completion of summer work

This course is an introduction to and the analysis of literature. Students will study the process writers go through in creating various works of literature. As they take on the literature as active, involved readers, they will go through the same process it takes to write an essay, only in reverse. They will begin with finished products and take them apart to see how each writer met the challenges of his or her piece. In doing so, the student will increase understanding of the options available to them for presentation of their own ideas, at which point they will begin to use the tools they have studied to create their own works in a variety of forms. Students enrolling in Honors English 1 are expected to already understand and use standard English grammar effectively. This course will require an End of Course Exam.

Basic English 1 - (1 credit)
Course Number: 1002
Basic English classes facilitate those students with learning disabilities in reading and writing skills. The curriculum focuses on vocabulary development, reading comprehension, and writing. Skill and grade levels may vary for each class and is guided by the student's Individual Educational Plan. This course will require an End of Course Exam.
***Admission to this class is by placement only determined by an ARD committee**.*

English for Speakers of Other Languages ESOL I - (1 credit)
Course Number: 0014
Prerequisite: Language Proficiency Placement Test, LPAC Recommendation
English for Speakers of Other Languages I (ESOL I) is designed for beginning to intermediate fluency level students coping with a new language and a new culture. Basic skills are introduced in a simple, easy to- understand framework helping to bridge the gap between ESOL and other academic subjects. ESOL provides opportunities for students to practice listening, speaking, reading and writing skills as they develop independence and confidence in the use of English. The course includes the study of phonics, vocabulary, grammar, reading, and writing.

2nd English Credit Options

English II - (1 credit)
Course Number: 1010
Prerequisite: English I or equivalent
In English II, students strengthen skills in reading analysis and communication. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze text, write in multiple modes, research, listen, and speak. This course focuses on the concept of culture and community, and examines how these influences shape identity and perspective. Students read and analyze works of world literature, with emphasis on analysis of how stylistic choices and rhetorical elements shape tone in persuasive and argumentative texts, both print and non-print. Students deconstruct writing prompts and write a synthesis essay that incorporates perspectives from multiple sources. Students develop their independent learning skills as they respond to opportunities for self-evaluation. Through the use of multiple learning and instructional strategies, students acquire not only the knowledge they need but also the confidence in their own abilities to learn and to communicate effectively in real-world situations. This course will require an End of Course Exam.

Honors English 2 - (1 credit)
Course Number: 1110
Prerequisite: Honors English I or teacher recommendation
Honors English II engages students in learning all the essential knowledge and skills of English II while providing greater depth. This enhanced curriculum continues to build the tools necessary to succeed in Honors/Dual Credit Language and Literature classes. Independent reading in Honors courses is structured to support students' interaction with a text through the application of close reading analysis with reading strategies, leading to an ability to independently analyze any new text. Students are confronted with increasingly challenging texts, both classic and contemporary, fiction and nonfiction. Students are challenged by complex writing tasks in persuasion, argumentation, literary analysis, and synthesis in order to build capacity to write effectively in these rhetorical modes. With exposure to various strategies, prompts, nonfiction texts, and varied writing tasks, students will exit the program equipped with the kind of higher-order thinking skills, knowledge, and behaviors necessary to be successful in Honors classes and post-secondary education. This course will require an End of Course Exam.

Basic English II - (1 Credit)
Course Number: 1009
Basic English classes facilitate those students with learning disabilities in reading and writing skills. The curriculum focuses on vocabulary development, reading comprehension, and writing. Skill and grade levels may vary for each class and is guided by the student's Individual Educational Plan. This course will require an End of Course Exam.
***Admission to this class is by placement only determined by an ARD committee**.*

3rd English Credit Options

English III - (1 credit)
Course Number: 1015
Prerequisite: English II or equivalent
In English III, students strengthen skills in reading analysis and communication. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze text, write in multiple modes, research, listen, and speak. This course focuses on American fiction and nonfiction, using literary and other texts to present the iconic idea of the American Dream. Students research historical and contemporary texts as they articulate the origins and impact of the ideas and realities of the American Dream on life today and on personal thinking. Students are expected to articulate personal convictions and propose solutions to social issues. Writing in a variety of modes - personal essays, opinions and editorials, credos, reflective self-evaluation, speeches, dramatic scripts, surveys, literary analysis, and research projects - students expand their skills in communicating well through written language.

Through the use of multiple learning and instructional strategies, students acquire not only the knowledge they need but also the confidence in their own abilities to learn and to communicate effectively in real-world situations.

Basic English III - (1 credit)
Course Number 1022
Basic English classes facilitate those students with learning disabilities in reading and writing skills. The curriculum focuses on vocabulary development, reading comprehension, and writing. Skill and grade levels may vary for each class and is guided by the student's Individual Educational Plan.
***Admission to this class is by placement only determined by an ARD committee**.*

4th English Credit Options

English IV - (1 credit)
Course Number: 1020
Prerequisite: English III or equivalent
In English IV, students strengthen skills in reading analysis and communication. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze text, write in multiple modes, research, listen, and speak. This course capitalizes on the confidence and expertise students have gained as interpreters and analyzers of texts by introducing them to multiple lenses through which to view text. Students are asked to broaden their understanding and their interpretive skills by thinking deeply about themes and ideas from multiple perspectives. Using Historical, Cultural, Feminist, Marxist, and Archetypal Criticism, students learn to view texts through some of the filters that result in multiple interpretations of the same text or media story. Students apply the theories of criticism to their own reading and interpretation of both fiction and nonfiction texts. Through the use of multiple learning and instructional strategies, students acquire not only the knowledge they need but also the confidence in their own abilities to learn and to communicate effectively in real-world situations.

Basic English IV - (1 credit)
Course Number: 1023
Basic English classes facilitate those students with learning disabilities in reading and writing skills. The curriculum focuses on vocabulary development, reading comprehension, and writing. Skill and grade levels may vary for each class and is guided by the student's Individual Educational Plan.
***Admission to this class is by placement only determined by an ARD committee**.*

College Prep for English Language Arts and Reading - (1 credit)
Course Number: 1024
12th grade only
Prerequisite: Counselor Recommendation
The purpose of the College Readiness English Language Arts and Reading course is to provide high school students an opportunity to gain and demonstrate the necessary college readiness skills to be successful in college-level, credit-bearing courses without the need for remedial or developmental coursework. This course is designed for 12th grade students whose English coursework, End of Course examinations in English, and college readiness examination scores indicate that a student is not ready to perform entry-level college coursework in composition and literature. The performance- based course integrates basic academic reading skills and basic writing skills and is designed to develop students' critical reading and academic writing skills through extensive instruction emphasizing skills in vocabulary, grammar, comprehension, paragraph elements, essay structure, and critical analysis. Students will demonstrate comprehension of varied texts through written responses, progressing from advanced paragraphs to well-developed, academic essays. The course fulfills TSI requirements for reading and writing. Entry into this course requires counselor recommendation, and may count for the fourth English Language Arts credit. There are not Principles or Applied courses for College Readiness courses.

3rd and 4th English Credit

Central Texas College Dual Credit English Credit Options
Dual Credit English (III or IV): ENGL 1301 Composition I – (1/2 credit)
Course Number: 1019
11th-12th grade
Prerequisite: English II (when replacing English III) or III (when replacing English IV) and meet eligibility requirements
Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices,including audience, purpose, arrangement, and style. Focus on writing the academic essay as avehicle for learning, communicating, and critical analysis. Lab required. Prerequisite: Meet TSI college readiness standard for Reading and Writing; or equivalent. 3 credit hours. This course fulfills ½ credit for either English III (for 11th graders intending to take ENGL 2332 and ENGL 2333 in the 12th grade year) or English IV (for 12th graders). It should be paired with ENGL 1302 in the second semester to grant a full credit of high school English. Please note that 11th graders taking ENGL 1301 and 1302 to complete the 3rd English Credit must plan to take ENGL 2332 and ENGL 2333 to complete the fourth English credit).

Central Texas College Dual Credit English (III or IV): ENGL 1302 Composition II – (1/2 credit)
Course Number: 1021
11th-12th grade
Prerequisite: ENGL 1301, and meet eligibility requirements
Intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions. Lab required. Prerequisite: ENGL 1301. 3 credit hours. This course fulfills ½ credit for either English III (for 11th graders intending to take ENGL 2332 and ENGL 2333 in the 12th grade year) or English IV (for 12th graders). It should be paired with ENGL 1302 in the second semester to grant a full credit of high school English.

Central Texas College Dual Credit English IV: ENGL 2332 World Literature I – (1/2 credit)
Course Number: 1025
12th grade
Prerequisite: ENGL 1302 and meet eligibility requirements
A survey of world literature from the ancient world through the sixteenth century. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. 3 credit hours. This course satisfies ½ credit for the Advanced English high school credit (English IV) and should be paired with ENGL 2333 in the second semester.

Central Texas College Dual Credit English IV: ENGL 2333 World Literature II – (1/2 credit)
Course Number: 1027
12th grade
Prerequisite: 2332 and meet eligibility requirements
A survey of world literature from the seventeenth century to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. Prerequisite: ENGL 1302 or ENGL 2311. 3 credit hours. This course satisfies ½ credit for the Advanced English high school credit (English IV) and should be paired with ENGL 2332 in the first semester.

English Electives and Support Courses for English Skills

Creative and Imaginative Writing - (1/2 credit)
Prerequisite: English I or equivalent
The study of creative writing allows high school students to earn credit while developing versatility as a writer. The forms and standards of writing are addressed in a varied format. Many pre-writing techniques will be used, including multimedia, discussion reading, journal, and personal experience. Writing for comedy, persuasion, drama, and narration will be included in this class. Students are expected to demonstrate an understanding of the recursive nature of the writing process, effectively apply the conventions of usage and mechanics of written English. The students' evaluation of their own writing as well as the writing of others ensures that students completing this course are able to analyze and discuss published and unpublished pieces of writing, develop peer and self-assessments for effective writing, and set their own goals as writers.
Reading I, II, III – (1 credit each)
Prerequisite: Counselor Recommendation
Reading is a course for students who struggle with basic reading competencies. Emphasis is placed on using specific reading strategies to increase skills in comprehension, vocabulary development, fluency and reference usage. Instruction is differentiated and tailored to the individual needs of each student. The model includes experiences in whole and small group instruction, independent reading, and technology-based learning. This course is intended for remediation in reading.

Journalism/Yearbook 1
Course Number: 1035
Students are expected to plan, draft, and complete written and/or visual communications on a regular basis, carefully examining their copy for clarity, engaging language, and the correct use of the conventions and mechanics of written English. Students will plan, organize, and prepare a project. Students will be responsible for the preparation and publication of the high school yearbook.
In order to enroll in this class, students must meet with the instructor to discuss the position desired on the staff. A letter of recommendation from a previous teacher is requested. The letter and the meeting should be completed by the beginning of May.
*****See course instructor for more information about the class and about the letter of recommendation.***

Journalism/Yearbook 2
Course Number: 1036
Students are expected to plan, draft, and complete written and/or visual communications on a regular basis, carefully examining their copy for clarity, engaging language, and the correct use of the conventions and mechanics of written English. Students will plan, organize, and prepare a project. Students will be responsible for the preparation and publication of the high school yearbook.
In order to enroll in this class, students must meet with the instructor to discuss the position desired on the staff. A letter of recommendation from a previous teacher is requested. The letter and the meeting should be completed by the beginning of May.
****See course instructor for more information about the class and about the letter of recommendation.***

Creative Writing Independent Study:
See Counselor before registering for this course.
Creative Writing, a rigorous composition course, asks high school students to demonstrate their skill in such forms of writing as fictional writing, short stories, poetry, and drama. All students are expected to demonstrate an understanding of the recursive nature of the writing process, effectively applying the conventions of usage and the mechanics of written English. The students' evaluation of their own writing as well as the writing of others ensures that students completing this course are able to analyze and discuss published and unpublished pieces of writing, develop peer and self-assessments for effective writing, and set their own goals as writers

Fine Arts

Music History/Literature
Course Number: 7105
Music History is a college level course, using a college textbook. The student will study music history from 1200 AD to the present. Music memory is required by all students. The course covers all major musical styles from the Medieval to present day. The main focus of the course is classical, although the last nine weeks of the year are spent on the 20th Century. *Grades 11 & 12

High School Band
Band I - Course Number: 7000
Band II - Course Number: 7005
Band III - Course Number: 7010
Band IV - Course Number: 7020
(Enrollment is with director approval.) The first year that a student participates in band, the course will be counted as the fine art requirement, if needed. Additional years of band participation will count as elective credits. For students who wish to earn physical education requirements, the student must participate in the fall marching band. Each semester of marching band will count as 1/2 PE units.

Requirements for HS Band: The student must have been in band the prior year in order to enroll in the high school band. If enrolling from outside the district, the student must have been in band within the past two years and must have at least a full year of band experience. The Hamilton High School Band is a competing organization. Performances are required as part of the curriculum and is the basis for the class grade. Any student who has previously dropped from band participation will not be allowed to re-enroll. (Students who cannot meet the above criteria MAY have an opportunity to gain enrollment through participation in the Applied Music course with director approval)

Band III or IV Honors
Band III Honors Course Number: 7015
Band IV Honors Course Number: 7025
Students who wish to enroll in Band as honors are NOT required to complete the honors course form. They must, however, indicate that they wish to be considered for honors on the pre-registration form. The director will approve student requests for honors band. All students who are in honors band are required to compete in solo/ensemble contest, compete in district, region and area auditions, and perform at community performances beyond those required by regular band members. Honors band students must also write a research paper at the end of the second semester on a topic approved by the band director.

Successful completion of all course requirements will result in honor points awarded for GPA purposes (see GPA/class rank page for more info). All honors band requests must be for the full year of participation.

Applied Music/Band Sectionals
Applied Music I Course Number: 7030
Applied Music II Course Number: 7035
This class is designed to develop musical pedagogy both on the student's band instrument, as well as in music theory. The class provides one on one instruction to help prepare students for District, Region and Area Band auditions, solo and ensemble as well as music school auditions for college. This class is also designed to help students gain the necessary skills so that they may join the High School band program.

Art I - (1 credit)
Course Number: 7110
Prerequisite: None
Art I is an introductory course in which students will learn how to use the elements and principles of art to create a variety of two and three dimensional art (art production). Media explored will include but will not be limited to, drawing, painting, printmaking, sculpture, ceramics, and fibers. Students will also be introduced to the historical and cultural influences on art (art history). They will explore the philosophical nature of art (aesthetics) and students will learn to make critical judgments about art (art criticism). Art 1 is a yearlong course in which first semester skills are needed to be successful in semester two. Students are required to purchase a specific list of supplies. Supplies must be purchased during the first 2 weeks of school to remain in the class.

Art II - (1 credit)
Course Number: 7111
Prerequisite: Art I
Art II offers instruction in a variety of media and techniques and builds on the skills and information learned in Art I. Emphasis is on skill building and creative problem solving; however, art history, aesthetics, and art criticism will also be addressed. Art II is an intensive year long course in basic drawing, design, and painting with some three dimensional work designed to challenge the students who are planning to take advanced art classes. First semester skills are needed to be successful in semester two. Students are required to purchase a specific list of supplies. Supplies must be purchased during the first 2 weeks of school to remain in the class.

Art III - (1 credit)
Course Number: 7113
Prerequisite: Art II
Art III is an intensive year long course that continues instruction in a variety of media and techniques and is designed for the student who is seriously interested in the practical experience of art. Emphasis is on skill building and creative problem solving however, art history, aesthetics, and art criticism will also be addressed. The course is oriented toward exhibitions and competitions and the development of individual artistic strengths and interests. Emphasis is on skill building and creative problem solving however, art history, aesthetics, and art criticism will also be addressed. First semester skills are needed to be successful in semester two.

Floral Design - (1 credit)
Course Number: 8387
Prerequisite: None
This is an activity-based course structured to prepare students in the production of specialized floral designs, identify and classify plants and flowers, and use artistic elements of design to create personal floral arrangements. Students will develop knowledge and skills that enable them to understand the business practices used in the floral design industry as well as providing the opportunity for students to expand their leadership skills in the FFA organization. A materials fee is required for this course and successful completion of both semesters of this course may fulfill the fine arts credit required for graduation. This course provides the necessary training and instruction for students to participate in testing for the Texas State Florist's Certification. Materials fee may be required for this course. This course may count as a Fine Arts credit.

Advanced Floral Design - (1 credit)
Course Number:8392
Prerequisite: None
This is an activity-based course structured to prepare students in the production of specialized floral designs, identify and classify plants and flowers, and use artistic elements of design to create personal floral arrangements. Students will develop knowledge and skills that enable them to understand the business practices used in the floral design industry as well as providing the opportunity for students to expand their leadership skills in the FFA organization. A materials fee is required for this course and successful completion of both semesters of this course may fulfill the fine arts credit required for graduation. This course provides the necessary training and instruction for students to participate in testing for the Texas State Florist's Certification. Materials fee may be required for this course. This course may count as a Fine Arts credit.

Theatre Arts

Theatre Arts I - (1 credit)
Course Number: 7120
Prerequisite: None
General areas of study include but are not exclusive to the following: performance skills of improvisation, pantomime, mime, voice and diction, stage movement and acting. Additional areas explored are history of the theatre and careers in theatre. Technical aspects discussed are design concepts of lighting, sound, scenery, props, makeup, costumes and publicity. Students will be involved in many performance projects each grading period and written and visual projects throughout the year. Students are required to purchase a specific list of supplies determined by the program director. Some required aspects of this course may occur outside of the school day. Intermediate Theatre Arts I - (1 credit) Prerequisite: Middle School Theatre and teacher recommendation Intermediate Theatre Arts I may be substituted for Theatre Arts I. It is an intensive course in acting styles, stage composition, voice and diction, script analysis, theatre history, and technical theatre designed to challenge the student having 2-3 years of middle school theatre arts credit. Students will be involved in many performance

projects each grading period and written and involved visual projects throughout the year. Some required aspects of this course may occur outside of the school day. Please check with the campus program director for enrollment details pertaining to this class. Students are required to purchase a specific list of supplies determined by the program director.

Theatre Arts II - (1 credit)
Course Number: 7122
Prerequisite: Theatre Arts I and teacher recommendation
Theatre Arts II is a continuation of Theatre Arts I with special emphasis on advanced acting styles and techniques and critical analysis of scripts and characters. Students will also continue their study of improvisation as it enhances character analysis, pantomime, mime, voice and diction, audition techniques and production techniques. Some required aspects of this course may occur outside of the school day. Students are required to purchase a specific list of supplies determined by the program director.

Theatre Arts III - IV - (1 credit)
Theatre Arts III Course Number: 7124 - Prerequisite: Theatre Arts II
Theatre Arts IV Course Number: 7126 - Prerequisite: Theater Arts III
Prerequisite: Theatre Arts II and teacher recommendation
Areas of study in Theatre Arts III and IV rotate each year so that all are covered by end of the 4- year and include such as contemporary and classical acting styles and techniques, exploration and analysis of representative plays from each period of history, history of film, puppetry, dance and masked theatre, playwriting and other specialize production techniques. All students will be involved in many performances, written and visual projects throughout the year. This class is designed for the student who wishes to seriously study and apply the theory of acting. Primarily students enrolled in this class are the same ones who comprise a large percentage of the acting companies of the departmental productions. Some required aspects of this course may occur outside of the school day. Students are required to purchase a specific list of supplies determined by the program director.

Foreign Language

Spanish 1 - (1 credit)
Course Number: 6000
Prerequisite: None
Students in Spanish I will be able to express meaning in simple contexts and understand sentence length information. Students may be generally understood by people accustomed to dealing with language learners. Students will acquire and discover the target language through speaking, listening, reading, and writing activities. This course will lay the framework for continuing in the target language and will introduce students to the target language cultures. The majority of this course is conducted in the target language.

Spanish II - (1 credit)
Course Number: 6005
Prerequisite: Spanish I
Students in Spanish II will be able to express meaning in straightforward and personal contexts and understand information from simple connected statements. Students are generally understood by people accustomed to dealing with language learners. Students will continue to acquire and discover the target language through speaking, listening, reading, and writing activities. This course allows the students to begin communicating in a target language environment. The majority of this course is conducted in the target language.

Dual Credit Spanish 3 and 4 (1 credit each)
Spanish III Course Number: 6011
Spanish IV Course Number: 6016
These courses are taught online through Central Texas College and are proctored by Hamilton High School employees. Each of these classes are taught as a one semester course. * Students must meet CTC requirements.

American Sign Language I - (1 credit)
Course Number: 6020
Prerequisites: none
ASL I introduces students to the language and culture of the Deaf. In this course, students will build their receptive and expressive communicative foundation. The focus of this course is developing a novice-mid proficiency. This course is conducted in ASL (without voice) a significant amount of time.

American Sign Language II - (1 credit)
Course Number: 6022
Prerequisites: ASL I
ASL II continues to introduce the language and culture of the Deaf. In this course, students continue to develop their expressive and receptive communicative abilities. Students will gain a deeper appreciation and understanding of American Deaf Culture. The focus of this course is developing a novice-high proficiency. This course is conducted in ASL (without voice) a significant amount of time. I

Mathematics

Applied Mathematics
Students who are identified by an ARD committee as needing the services of special education are allowed to register for Applied Math. The student's ARD committee will determine the placement and the student's IEP will state which course the student will be taking. The sequence for students in the applied math sequence will be:

Applied Math 1: Grade 9
Applied Math 2: Grade 10
Applied Math 3: Grade 11
Applied Math 4: Grade 12

Students will be taught at the ability level specified in the Individualized Education Plan. Students taking this sequence of courses will be required to take four years of math.

The student in Applied Math 1 will typically study the concepts of Algebra including using addition, subtraction, multiplication and division to solve equations, finding squares and square roots, using the distributive property, graphing, factoring polynomials, solving rational expressions, and finding the probability of an event.

The student in Applied Math 2 will typically solve real-life problems; interpret information from graphs; and solve problems involving taxes, budgeting and deductions.

The student in Applied Math 3 will typically study Geometry including the study of two and three dimensional figures. The student will continue with the study of algebraic concepts.

The student in Applied Math 4 will study the concepts from Algebra II. The student will continue with the study of algebraic concepts and perceive the connections between algebra and geometry.

1st Math Credit Options (8th grade Math Prerequisite)

Strategic Learning for High School Math Students - Pre-Algebra (1 credit)

Course Number: 2002

This course is intended to create strategic mathematical learners from underprepared mathematics students. The basic understandings will stimulate students to think about their approach to mathematical learning. These basic understandings will include identifying errors in the teaching and learning process, input errors, physiological concerns, and key cognitive skills. The essential knowledge and skills will foster a deeper understanding of the task of learning mathematical concepts. Use of personal data and statistical analysis will establish relevance and aid in creation of individualized learning plans (I.L.P.'s)

Algebra I (1 credit)
Course Number: 2005
Prerequisite: 8th Grade Math
In Algebra I, students will build on the knowledge and skills for mathematics in Grades 6-8, which provide a foundation in linear relationships, number and operations, and proportionality. Students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Students will connect functions and their associated solutions in both mathematical and real-world situations. Students will use technology to collect and explore data and analyze statistical relationships. In addition, students will study polynomials of degree one and two, radical expressions, sequences, and laws of exponents. Students will generate and solve linear systems with two equations and two variables and will create new functions through transformations. This course will require an End of Course Exam.

Honors Algebra 1 (1 credit)
Course Number: 2011
Prerequisite: Advanced Math
The purpose of Honors math courses is to better prepare students who plan to take the more rigorous math courses, whether that is in high school or college. Honors courses help develop the skills necessary for Honors Calculus or Honors Statistics. Students will study the concepts taught in regular Algebra with more depth in the study that will require more work on the part of the student. The problems will be more challenging and will involve more complex algebra than in regular Algebra. In addition, there may be additional projects assigned.

2nd Math Credit Options (Algebra I Prerequisite)

Algebra I (1 credit)
Course Number: 2005
Prerequisite: Pre-Algebra
In Algebra I, students will build on the knowledge and skills for mathematics in Grades 6-8, which provide a foundation in linear relationships, number and operations, and proportionality. Students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Students will connect functions and their associated solutions in both mathematical and real-world situations. Students will use technology to collect and explore data and analyze statistical relationships. In addition, students will study polynomials of degree one and two, radical expressions, sequences, and laws of exponents. Students will generate and solve linear systems with two equations and two variables and will create new functions through transformations. This course will require an End of Course Exam.

Geometry (1 credit)
Course Number: 2020
Prerequisite: Algebra I
In Geometry, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I to strengthen their mathematical reasoning skills in geometric contexts. Students will explore concepts covering coordinate and transformational geometry; logical argument and constructions; proof and congruence; similarity, proof, and trigonometry; two- and three-dimensional figures; circles; and probability. Due to the emphasis of probability and statistics in the college and career readiness standards, standards dealing with probability have been added to the geometry curriculum to ensure students have proper exposure to these topics before pursuing their postsecondary education. Students will also learn definitions, postulates, and theorems that help describe geometric relationships.

Honors Geometry (1 credit)
Course Number: 2105
Prerequisite: Honors Algebra I
The purpose of Honors math courses is to better prepare students who plan to take the more rigorous math courses, whether that is in high school or college. Pre-AP courses help develop the skills necessary for Honors Calculus or Honors Statistics. Students will study the concepts taught in regular Geometry with more depth in the study that will require more work on the part of the student. The proofs will be more challenging, and problems will involve more complex algebra. There may be additional projects assigned.

Mathematical Applications in Agriculture, Food, and Natural Resources (1 credit)
Course Number: 8103
Prerequisite: None
Recommended prerequisite: a minimum of one credit from the courses in the Agriculture, Food, and Natural Resources cluster.
To be prepared for careers in agriculture , food, and natural resources, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics. Students should apply knowledge and skills related to mathematics, including algebra, geometry, and data analysis in the context of agriculture, food, and natural resources. To prepare for success, students are afforded opportunities to reinforce, apply, and transfer their knowledge and skills related to mathematics in a variety of contexts.

3rd Math Credit Courses

Algebra II (1 credit)
Course Number: 2030
Prerequisite: Algebra I
In Algebra II, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I to prepare students for 4th year math courses. This course is taught with a functional approach giving students a sound foundation for either technical or non-technical degrees in college. Students will broaden their knowledge of quadratic functions, exponential functions, and systems of equations. Students will study polynomials, logarithmic, square root, cubic, cube root, absolute value, rational functions, and their related equations. Students will connect functions to their inverses and associated equations and solutions in both mathematical and real-world situations. In addition, students will extend their knowledge of data analysis and numeric and algebraic methods.

Honors Algebra 2 (1 credit)
Course Number: 2110
Prerequisite: Honors Algebra I
Students will cover the same topics as covered in Algebra 2 but will go into more depth. Problems tend to be more challenging and there is more time spent on the introduction to trigonometry than in the regular Algebra 2 course. Students will use the logical thinking skills that were taught in geometry to reason through problems and figure out formulas on their own. This course is designed to prepare students for the study of calculus or higher level college math courses.

Geometry (1 credit)
Course Number: 2020
Prerequisite: Algebra I
In Geometry, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I to strengthen their mathematical reasoning skills in geometric contexts. Students will explore concepts covering coordinate and transformational geometry; logical argument and constructions; proof and congruence; similarity, proof, and trigonometry; two- and three-dimensional figures; circles; and probability. Due to the emphasis of probability and statistics in the college and career readiness standards, standards dealing with probability have been added to the geometry curriculum to ensure students have proper exposure to these topics before pursuing their postsecondary education. Students will also learn definitions, postulates, and theorems that help describe geometric relationships.

Honors Geometry (1 credit)
Course Number: 2105
Prerequisite: Honors Algebra I
The purpose of Honors math courses is to better prepare students who plan to take the more rigorous math courses, whether that is in high school or college. Pre-AP courses help develop the skills necessary for Honors Calculus or Honors Statistics. Students will study the concepts taught in regular Geometry with more depth in the study that will require more work on the part of the student. The proofs will be more challenging, and problems will involve more complex algebra. There may be additional projects assigned.

Mathematical Applications in Agriculture, Food, and Natural Resources (1 credit)
Course Number: 8103
Prerequisite: None
Recommended prerequisite: a minimum of one credit from the courses in the Agriculture, Food, and Natural Resources cluster.
To be prepared for careers in agriculture , food, and natural resources, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics. Students should apply knowledge and skills related to mathematics, including algebra, geometry, and data analysis in the context of agriculture, food, and natural resources. To prepare for success, students are afforded opportunities to reinforce, apply, and transfer their knowledge and skills related to mathematics in a variety of contexts.

4th Math Credit and Beyond Options (including Central Texas College Dual Credit Math Options)

Algebra II - (1 credit)
Course Number: 2030
Prerequisite: Algebra I
In Algebra II, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I to prepare students for 4th year math courses. This course is taught with a functional approach giving students a sound foundation for either technical or non-technical degrees in college. Students will broaden their knowledge of quadratic functions, exponential functions, and systems of equations. Students will study polynomials, logarithmic, square root, cubic, cube root, absolute value, rational functions, and their related equations. Students will connect functions to their inverses and associated equations and solutions in both mathematical and real-world situations. In addition, students will extend their knowledge of data analysis and numeric and algebraic methods.

Honors Algebra 2 - (1 credit)
Course Number: 2110
Prerequisite: Algebra I
Students will cover the same topics as covered in Algebra 2 but will go into more depth. Problems tend to be more challenging and there is more time spent on the introduction to trigonometry than in the regular Algebra 2 course. Students will use the logical thinking skills that were taught in geometry to reason through problems and figure out formulas on their own. This course is designed to prepare students for the study of calculus or higher level college math courses.

Honors Pre-calculus - (1 credit)
Course Number: 2115
Prerequisite: Algebra 1, Geometry, Algebra 2
This course covers basically the same course objectives as Pre-Calculus and is designed to be more challenging to the student. Only highly motivated and capable students of mathematics will be interested in this course. Upon completion, students should be prepared for an AP math class such Honors Calculus or Honors Statistics.

Honors Calculus - (1 credit)
Course Number: 2120
Prerequisite: Pre-Calculus
This course is a college-level course in calculus. Students must have completed Honors Pre-calculus. Only highly motivated students who enjoy math and who have performed very well in other math classes should consider enrolling in this course. Topics in basic differentiation and integration are studied. Upon completion of this course, students would be well prepared for calculus at the college level. The end of year Honors Calculus test is optional but strongly encouraged, and students who score at a high level may receive credit for college Calculus.

College Readiness for Mathematics - (1 credit; can be the 4th math credit) 12th grade
Course Number: 2130
Prerequisite: Counselor Recommendation
The purpose of the College Readiness Mathematics course is to provide high school students an opportunity to gain and demonstrate the necessary college readiness skills in mathematics to be successful in college-level, credit-bearing courses without the need for remedial or developmental coursework. This course is designed for 12th grade students whose coursework, End of Course examination in Algebra I, and college readiness examination scores indicate that a student is not ready to perform entry-level college coursework in mathematics. This course focuses on the study of relations and functions, inequalities, and algebraic expressions and equations including linear, polynomial, radical, and rational functions. Students will use these functions to model, interpret, and justify mathematical ideas and concepts using multiple representations. Upon successful completion this course students can fulfill TSI requirements in mathematics. Entry into this course requires counselor recommendation, and may count for the fourth mathematics credit. Students who may be candidates for athletic scholarships should be advised that this course may not meet minimum core requirements under NCAA guidelines. Note that not completing Algebra II prevents a student from graduating with the Distinguished Level of Achievement. Principles and Applied sections are not available for College Readiness courses.

CTC Dual Credit College Algebra (1 credit and 3 hours College Credit)
Course Number: 2012
Prerequisite: Algebra II and meet eligibility requirements
College Algebra is an in-depth study of polynomial, rational, exponential, logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. A graphing calculator is required. This course may qualify as 1 of the 4th high school math credit as well as 3 college credit hours.

CTC Dual Credit Math: Elementary Statistical Methods (1 credit and 3 hours College Credit)
Course Number: 2131
Prerequisite: Algebra II and meet eligibility requirements
Elementary Statistical Methods is the collection, analysis, presentation and interpretation of data and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Graphing calculator required. Lab required. This is a dual credit course and may qualify as 1 of the 4 high school math credits as well as 3 college credit hours.

Science

1st Science Credit Courses Biology - (1 credit)
Course Number: 3010
Recommended Prerequisite: None
Biology is a course designed around the study of living things. This course emphasizes a variety of topics such as functions of cells and viruses; growth and development of organisms; cells, tissues and organs; nucleic acids and genetics; biological evolution; taxonomy; metabolism and energy transfers in living organisms; ecosystems; living systems; homeostasis; ecosystems; and plants and the environment. Manipulative laboratory skills, skills in acquiring data, classification skills in ordering and sequencing data, oral and written communication skills, along with career exploration will be stressed in this course. This course will require an End of Course Exam.

Honors Biology (1 credit)
Course Number: 3045
This course covers all the material included in the regular Biology course with an in-depth approach. Students will complete several projects during the year including reading the novel "Silent Spring" and writing a formal research paper. This course is generally taken in 9th grade. This course will require an End of Course Exam.

2nd Science Credit Courses

Integrated Physics and Chemistry (IPC) - (1 credit)
Course Number: 3005
Recommended Prerequisite: None
Integrated Physics and Chemistry is a survey lab course that reinforces the foundational knowledge required for all subsequent physical science courses. Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry in the following topics: force, motion, energy, and matter.

Chemistry - (1 credit)
Course Number: 3015
Prerequisite: One unit of high school science and Algebra I
Recommended Co-requisite: Geometry
This course emphasizes a variety of topics that include: characteristics of matter, energy transformations during physical and chemical changes; atomic structure; the periodic table of elements; behavior of gases; bonding; nuclear fusion and nuclear fission; oxidation-reduction; chemical equations; solutes; properties of solutions; acids and bases; and stoichiometric relationships. Chemistry is a course that is oriented toward college preparation and is grounded in a laboratory approach to the study of the matter. Manipulative laboratory skills, skills in acquiring data, classification skills in ordering and sequencing data, oral and written communication skills, along with career exploration will be stressed in this course. Semesters must be completed in sequence (1st then 2nd).

Honors Chemistry - (1 credit)
Course Number: 3020
REQUIRED Prerequisite: One unit of high school science and Algebra I
Recommended Prerequisite: Geometry Recommended Co-requisite: Algebra II
This course extends the chemistry concepts and TEKS with an emphasis on preparing students to take AP Chemistry Pre-AP Chemistry will be a lab-oriented course designed for students exhibiting advanced achievement levels in the chemical sciences. This course shall exceed the content and depth of a standard Chemistry course both in the classroom and laboratory experiences. Pre-AP Chemistry will strive for higher levels of learning; creative thinking, and critical evaluation tenets such as analyzing, synthesizing, and formulating logical conclusions.

3rd/4th Science Credit Courses (Most Commonly)

Physics - (1 credit) Recommended
Course Number: 3030
Prerequisite: Geometry Recommended Co-requisite: Algebra II
Physics is designed to provide a laboratory-oriented approach to the study of matter and energy. The course provides for the development of understanding of the physical laws and devices that govern the world around us. Topics of study include motion, forces, energy, momentum, thermodynamics, waves, and modern physics. This course emphasizes the use of mathematics to solve problems.

Honors Physics
Course Number: 3031
Prerequisites: Geometry and Algebra 2
Honors Physics 1 is equivalent to the first semester of a typical introductory, algebra-based college physics course. Topics of study include Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Emphasis is placed on student-centered, inquiry-based instructional practices to develop scientific critical thinking and reasoning skills.

Science + CTE Credit Courses

Anatomy/Physiology of the Human Body - (1 credit, CTE)
Course Number: 3025
Recommended Prerequisite: Biology and a second science credit
Anatomy and Physiology is a college preparatory and a laboratory-oriented course that will provide opportunities for the student to observe anatomical structures and examine physiological systems. Acquiring, classifying, and sequencing data; experiences in oral and written communication; and career explorations are skills that will be addressed in this course. Students in this course may choose to take courses in Health Science Technology.

Advanced Animal Science (1 credit, CTE)
Course Number: 8388
Prerequisites: 2 of 4 courses - Equine Science, Livestock Production, Small Animal Management, or Wildlife, Fisheries & Ecology Management
To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. This course may qualify as a science credit.

Advanced Plant and Soil Science - (1 credit, CTE)
Course Number: 8389
Prerequisite: Biology, IPC/Chemistry, Horticultural Science or Landscape Design & Management
This course provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. Investigations, laboratory practices, and field exercises will be used to develop an understanding of current plant and soil science. This course is designed to prepare students for careers in the food and fiber industry. Students will learn, reinforce, apply, and transfer their knowledge in a scientific setting. Materials fee may be required for this course. This course may qualify as a science credit.

Research & Design - (1 credit, CTE)
Course Number: 3060
R&D is a project based course designed to help prepare students to enter into the workforce in the fields of technology and engineering. A project such as designing and building a rocket that will carry a one pound payload to an altitude of one mile is used to help the students learn about research, design, organization, team work, oral and written presentations, and other aspects of research and design that may be encountered by engineers. In the first semester the students study forces, fluids, and electrical systems. They use this knowledge to successfully construct and launch small model rockets. In the second semester the students research and design the project rocket. The rocket is launched at the end of the semester

Research and Design 2 - (1 credit, CTE)
Course Number: 3062
Prerequisites: Research and Design 1
Much like R&D 1, R&D 2 is also a project based course that will help prepare students to enter into the workforce in the fields of technology and engineering. The project for this course is to research, design, and build a rocket that will break the sound barrier without exceeding an altitude of 13,000 feet. The first part of the course is a thorough study of the history of rocketry. The students then create a flight profile of the rocket's flight from launch to landing. This profile will be taken to Houston and presented to NASA Engineers at the Johnson Space Center. In the second semester the students will design and construct the rocket. Near the end of the school year the rocket will be test launched.

Research and Design 3- (1 credit, CTE)
Course Number: 3064
Prerequisites: Research and Design 1 and 2
The course has the components of any rigorous scientific or engineering program of study from the problem identification, investigation design, data collection, data analysis, formulation, and presentation of the conclusions. These components are integrated with the career and technical education emphasis of helping students gain entry-level employment in high-skill, high-wage jobs and/or continue their education.

Food Science (1 credit, CTE)
Course Number: 8065
Prerequisites: Biology and Chemistry
In Food Science students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Food Science is the study of the nature of foods, the causes of deterioration, the principles underlying food processing, and the improvement of foods for the consuming public. This is a course designed to help students understand and integrate the knowledge, skills and practices of the Food Science industry through the application of the biochemistry of food and nutrition. Materials fee may be required for this course. This course may qualify as a science credit.

Social Studies

1st Social Studies Credit Courses:
World Geography (1 credit)
Course Number:4010
Prerequisites: None
Geography is a study of the world. Students will locate places, see how people have interacted with their environment, and apply the five themes of geography. Students will also look at real life issues in the world. The world is studied in the context of human and physical geography. Students will learn the tools of geography and how to use them. World Geography covers the world according to continents.

Honors World Geography (1 credit)
Course Number: 4014
This course covers all the material included in the regular World Geography course, but with an in-depth approach.

2nd Social Studies Credit Courses
Dual Credit World History Western Civilization I – (SEM 1 - .5 high school credit/3 college hours)
Course Number: 4045
Students must meet CTC eligibility
A survey of the social, political, economic, cultural, religious, and intellectual history of Europe and the Mediterranean world from human origins to the 17th century. Themes that should be addressed in Western Civilization I include the cultural legacies of Mesopotamia, Egypt, Greece, Rome, Byzantium, Islamic civilizations, and Europe through the Middle Ages, Renaissance, and Reformations.

Western Civilization II – (SEM 2 - .5 high school credit/3 college hours)
Course Number: 4046
Students must meet CTC eligibility
A survey of the social, political, economic, cultural, religious, and intellectual history of Europe and the Mediterranean world from the 17th century to the modern era. Themes that should be addressed in Western Civilization II include absolutism and constitutionalism, growth of nation states, the Enlightenment, revolutions, classical liberalism, industrialization, imperialism, global conflict, the Cold War, and globalism.

2nd/3rd Social Studies Credit Courses
United States History
Course Number: 4005
The regular US History course covers the historical periods between 1850 and the present. This includes learning the impact of domestic and foreign events, knowing the geographical significance and impact of major events, learning the value and influences created by economic, social, political and cultural movements of our nation, and researching sources relative to certain eras and periods and being able to extend thoughts into words in a descriptive manner. This course will require an End of Course Exam.

Dual Credit US History - (SEM 1 - .5 high school credit/3 college hours)
Course Number: 4004
Students must meet CTC eligibility
The first semester focuses on English colonization, the Revolution, adoption of the Constitution, growth of nationalism, cotton and the slavery problem, civil war, and reconstruction. This is followed by the second semester consisting of new social and industrial problems, rise of the progressive movement, United States' emergence as a world power, World War I, reaction and the New Deal, World War II, and contemporary America. This course will require an End of Course Exam.

Dual Credit US History - (SEM 2 - .5 high school credit/3 college hours)
Course Number: 4006
Students must meet CTC eligibility
The first semester focuses on English colonization, the Revolution, adoption of the Constitution, growth of nationalism, cotton and the slavery problem, civil war, and reconstruction. This is followed by the second semester consisting of new social and industrial problems, rise of the progressive movement, United States' emergence as a world power, World War I, reaction and the New Deal, World War II, and contemporary America. This course will require an End of Course Exam.

3rd/4th Social Studies Credit Courses

Government - (.5 credit)
Course Number: 4025
This course studies how society enforces and makes its public policies. Students will become familiar with:

1. The foundations of American government;
2. How the state and local governments function;
3. political behavior.

Economics - (.5 credit)
Course Number: 4026
Economics is the social science of how society answers the three basic economic questions which are:

1. What to Produce?
2. How to Produce?
3. For Whom to Produce?

The student will also become familiar with the economic structure of Texas and Hamilton County.

Dual Credit Government - (.5 high school credit/3 college hours)
Course Number: 4021
Students must meet CTC eligibility
An introductory, survey course on various United States, Texas, and local government topics. This course includes study of the U.S. and Texas constitutions, federalism, local governments, national elections (state and local), civil liberties, interest groups, and political parties.

Dual Credit Economics - (.5 high school credit/3 college hours)
Course Number: 4026
Students must meet CTC eligibility
Introduction to economic analysis, price-level changes, the creation of money, the Federal Reserve System and monetary policy, the national accounts, the consumption function, taxation, fiscal policy, public debts, the theory of economic growth and population problems, and foreign economic policy. *one semester course offered online during the day*

Dual Credit Texas Government - (.5 high school credit/3 college hours)
Course Number: 4050
Students must meet CTC eligibility
A survey of Texas from the Spanish exploration to the present.

Vocational Education

Year 1: Aviation

Launching into Aviation (Semester 1 - .5 Credit)

Course Number: 8110

The ninth-grade course will provide the foundation for advanced exploration in the areas of flying, aerospace engineering, and unmanned aircraft systems. Students will learn about engineering practices, problem-solving, and the innovations and technological developments that have made today's aviation and aerospace industries possible.

Students will look at the problem-solving practices and innovative leaps that transformed space exploration from the unimaginable to the common in a single generation. Students will also gain historical perspective, starting from the earliest flying machines and leading to the wide variety of modern aircraft and the integral role they play in making today's world work.

Exploring Aviation and Aerospace (Semester 2 - .5 Credit)

This core aerospace and aviation course provides the foundation for both pathways. It is designed to give students a clear understanding of career opportunities in aviation and aerospace and the critical issues affecting the aviation system.

Students will also begin to drill down into the various sectors of aviation and the elements that make up the aviation and aerospace ecosystem. They will discover how advances in aviation created a need for regulation and will learn about the promulgation of civil aviation oversight.

Students will explore modern innovations and develop their own innovative ideas to address real-world challenges facing the aviation industry. They will be exposed to a variety of career options in aviation and aerospace and take an in-depth look at the opportunities available. For schools offering multiple pathways, this course will allow students to begin to define their individual interests.

Year 2 Aviation

Introduction to Flight (Semester 1 - .5 Credit)

Course Number: 8112

In the Introduction to Flight Course, students pursuing the pilot and UAS tracks will take a closer look at the aircraft they may one day operate. Students will begin with an exploration of the types of aircraft in use today before going on to learn how aircraft are made and how they fly. Students will understand how aircraft are categorized, be able to identify their parts, and learn about aircraft construction techniques and materials. They will gain an in-depth understanding of the forces of flight—lift, weight, thrust, and drag—including how to make key calculations. They will then touch on aircraft design, looking at stability, aircraft controls, and maneuvering flight. The course will conclude with a focus on career skills related to these topics.

Aircraft Systems and Performance (Semester 2 - .5 credit)

In the Aircraft Systems and Performance course, students in the UAS and Pilot tracks will take an in-depth look at the systems that make manned and unmanned aircraft work as well as the instrumentation powered by those systems. Beginning with aircraft powerplants and fuel systems, students will learn about the different options available and how they affect aircraft design and performance. They will go on to explore other key aircraft systems, including electrical, pitot-static, and vacuum systems. Throughout, they will learn about the flight instruments associated with each system and how to identify and troubleshoot common problems. This unit also covers airplane flight manuals, the pilot's operating handbook, and required aircraft documents. Finally, students will learn about the factors that affect aircraft performance and how to determine critical operating data for aircraft.

Year 3 Aviation

Introduction to Aerospace and Aviation

Course Number: 8114

Semester 1 - .5 credit

Semester 1 (for all students) This course is foundational for both manned and unmanned aviation, and will prepare students to take either of two Federal Aviation Administration tests: the Private Pilot Knowledge Test or the Part 107 Remote Pilot Knowledge Test. Topics include: pre-flight procedures, airspace, radio communications, aviation phraseology, regulations, airport operations, aviation safety, weather, cockpit management, and emergency procedures.

Semester 2 - .5 credit

(for pilot students)

This course will cover the remaining topics necessary for students to take the Federal Aviation Administration's Private Pilot Knowledge Test. Students will review regulations, cross-country flight planning, weight and balance, performance and limitations, human factors, chart use, night operations, navigation systems, and aeronautical decision making. At the end of this course, a school may choose to arrange for students to be signed off to take the Federal Aviation Administration's Private Pilot written exam.

Semester 2 - .5 credit
(for UAS Students)

This course will cover small unmanned aircraft performance, ethics, human factors, aeronautical decision-making and judgment, safety protocols, weight and balance, maintenance, aviation weather sources and effects of weather (micro-meteorology) on small unmanned aircraft performance, small unmanned aircraft loading and performance, emergency procedures, crew resource management, and preflight inspection procedures. Students will be provided the opportunity to participate in multiple practice examinations. Students will be prepared to complete the Federal Aviation Administration's Part 107 Remote Pilot Knowledge Test upon completion of this course.

Year 4 Aviation

Aviation Ground School

Course Number: 8116

Semester 1 - .5 credit
(Pilot Students)

After having prepared for the Private Pilot Knowledge Test and Part 107 Remote Pilot Test in the previous year, students will examine advanced aviation topics and aviation career options. Instrument flight, commercial aviation, and advanced aircraft systems begin the semester. Looking into the future, students then explore new horizons in the aerospace industry. What might aviation look like five, ten, or twenty years into the future? The focus then turns to business development opportunities in aviation. Finally, students learn about and conduct different types of research in preparation for their capstone project in the second semester.

Semester 1 - .5 credit
(UAS Students)

This course will cover UAS design concepts, sensor capabilities, communication and data links, ground control station, and sense-and-avoid systems. Practical applications of UAS operations including agriculture, public safety, photography, ethics, preventative maintenance, commerce, environmental studies, and other contemporary uses will be explored. Current limitations and future capabilities will be addressed through a review of unmanned aircraft systems case studies.

Semester 2 - .5 credit
(Pilot students)

The Pilot capstone course is the culmination of the student's learning experience throughout this pathway. The students will work as individuals or in small groups to study and report on an approved aviation topic of their choosing. The goal of this capstone course is to allow students to demonstrate an understanding of a contemporary topic in aviation as it relates to flying. The curriculum will include suggestions for research topics or projects that can be adapted to match available resources.

Semester 2 - .5 credit
(UAS Students)

The UAS capstone course is the culmination of the student's learning experience. Students will work as individuals or in small groups to study and report on an approved aviation topic of their choosing. The goal of this capstone course is to allow students to demonstrate an understanding of a contemporary topic in aviation related to unmanned aircraft operations. The curriculum will include suggestions for research topics or projects that can be adapted to match available resources.

Web Mastering (1 credit)
Course Number: 9105
Students in this course will communicate information in different formats and to diverse audiences. A variety of technologies will be used. The student will demonstrate proficiency in the use of a variety of electronic input devices such as keyboard, scanner, mouse, and voice/sound recorder. The student will demonstrate use of vocabulary related to Internet and web mastering and delineate between the Internet and Intranet. The course will summarize the technical needs of the World Wide Web.

Digital Graphics/Animation (1 credit)
Course Number: 9110
This course will offer the student the opportunity to use both graphic art and animation tools. Students will complete beginning projects using graphic and animation art, useful for both print and digital publishing media.

Business

Money Matters (1 credit)
Course Number: 9028
Students will investigate global economics with emphasis on the free enterprise system and its impact on consumers and businesses. Students apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to set long-term financial goals based on those options. Students will determine methods of achieving long-term financial goals through investment, tax planning, asset allocation, risk management, retirement planning, and estate planning.

Business Information Management 1 (BUSIM 1) (1 CTE Credit)
Course Number: 9010
Keyboarding is taught at the beginning of the course. A student in this course develops psychomotor skill in operating the keyboard as well as achieving acceptable speed and accuracy levels; provides for instruction information of basic documents for both personal and business use; provides opportunities for students to apply keyboarding skills in real-life situations; emphasizes mastery of touch control of keyboard characters, correct key stroking, and proper manipulations of operative parts and care of the machine; develops skill through a continuous program of selective practice based on diagnosis of individual needs; provides instruction in the production of letters, manuscripts, tabulations, business communications, reports and themes, and composition at the keyboard; and also includes skill development in proofreading, spelling, word division, punctuation, and correction techniques.

In addition, a student in this course develops technology skills with applications to personal or business situations focusing on an Office Suite that includes word processing, spreadsheets, databases, telecommunications, desktop publishing and presentation management.

Business Information Management 2 (BUSIM 2) (1 CTE Credit)
Course Number: 9016
Prerequisite: BUSIM 1
This course provides advanced technology skills required in the business environment; includes workplace technology standards in applications of word processing, spreadsheets, databases, telecommunications, desktop publishing, presentation management, networking, operating systems, and emerging technologies; and develops advanced level skills.

Principles of Business, Marketing, and Finance (1 CTE Credit)
Course Number: 9020
This course introduces the role of business in the lives of individuals, consumers, workers, and citizens; provides an overview of economic systems with emphasis on the free enterprise system, and the American economy; explores the characteristics of businesses; explores international business, government's role in business, technology in the business setting, and legal and ethical business issues; examines consumer issues regarding money and money management, banking system and services, paychecks and taxes relating to decisions, rights and responsibilities, and competencies of an individual; develops an awareness of the job market and opportunities including entrepreneurial; develops an understanding of the workplace and workforce, and assists in the development of a career plan based on self-inventory; and examines and develops employment skills needed when applying for a job.

Print and Imaging (1 CTE Credit)
Course Number: 9020
Careers in printing span all aspects of the industry, including prepress, press, and finishing and bindery operations. In addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the printing industry with a focus on digital prepress and digital publishing.

Family and Consumer Science

Principles of Human Services (1 CTE credit)
Course Number: 8010
This laboratory course will enable students to investigate careers in the human services career cluster, including counseling and mental health, early childhood development, family and community, and personal care services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers.

Child Development (1 CTE credit)
Course Number: 8025
This technical laboratory course addresses knowledge and skills related to child growth and development from prenatal through school-age children, equipping students with child development skills. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children.

Lifetime Nutrition and Wellness (.5 CTE credit)
Course Number: 8035
This laboratory course allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services, and health sciences.

Interpersonal Studies (.5 CTE credit)
Course Number: 8036
This course examines how the relationships between individuals and among family members significantly affect the quality of life. Students use knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers related to counseling and mental health services.

Dollars and Sense (1 CTE Credit)
Course Number: 8076
Dollars and Sense focuses on consumer practices and responsibilities, the money management process, decision-making skills, impact of technology, and preparation for human services careers.

Family & Community Services (1 CTE Credit)
Course Number: 8037
This laboratory-based course is designed to involve students in realistic and meaningful community-based activities through direct service experiences. Students are provided opportunities to interact and provide services to individuals, families, and the community through community or volunteer services. Emphasis is placed on developing and enhancing organizational and leadership skills and characteristics.

Agricultural Science

Principles of Ag, Food, and Natural Resources (1 CTE Credit)
Course Number: 8103
This is an introductory course designed to introduce the student to the basics of agriculture. Topics covered include the scope and history of agriculture, record keeping, leadership training, and basic shop skills. Additional topics include basic shop skills, animal science, soil science, and horticulture.
*****This course is recommended for entering 9th graders and is a full year one credit course.*****

Agricultural Mechanics and Metal Technologies (1 CTE Credit)
Course Number: 8222
This course is designed to introduce the student to basic mechanical skills. Topics include shop safety, arc welding, oxy-fuel cutting and welding, plumbing, and electrical wiring.

Food Technology and Safety (1 CTE Credit)
Course Number: 8065
This course teaches the basics of the food science industry. Topics include meat processing and products, poultry processing and products, dairy processing and products, and vegetable processing and products.

Horticulture Science (1 CTE Credit)
Course Number: 8265
This course is designed to teach the basics of horticulture. Topics include plant production, landscape design, greenhouse management, career opportunities, entrepreneurship skills, and employment skills.

Equine Science (1 CTE Credit)
Course Number: 8335
This course covers the basics of horses and their management. Topics include breeds, selection, health and nutrition, and equipment.

Agribusiness Management and Marketing (1 CTE Credit)
Course Number: 9012
This is a course where students learn the basic principles of business management and the marketing of products. Topics include the decision-making process, business recordkeeping, business reports, interpretation of business records and reports, and the marketing of products.

Wildlife, Fisheries, and Ecology Management (.5 CTE Credit)
Course Number: 8383
This course covers the topics related to wildlife and recreation management. Topics include wildlife species identification, management of wildlife species, history of wildlife management, laws and legislation regarding wildlife management.
Students may obtain their Hunter Education Certification in this class.

Range Management and Ecology (.5 CTE Credit)
Course Number: 8384
This course teaches the fundamentals of range management including range plants and their characteristics, determining the quality of range sites, soil science, and the management of range sites for the betterment of society.

Agricultural Facilities Design and Fabrication (1 CTE Credit)
Course Number: 8385
This course teaches the basics of construction of structures. Topics include carpentry, electrical wiring, and plumbing for wood or metal buildings.

Agricultural Power Systems (1 CTE Credit)
Course Number:8386
This is an agricultural industry course designed to prepare students to maintain, repair, and recondition agricultural vehicles and machinery. The course emphasizes basic principles of operation while introducing students to modern high-tech components, systems monitors, on-board computers, etc.

Principles and Elements of Floral Design (1 Fine Arts credit)
Course Number: 8387
This is a course designed to develop skills in the design and arrangement of flowers, foliage, and related plant materials for interior locations. In addition, this course is designed to examine floral design in relation to contemporary designs, business practices, specialty items, creativity, and careers in the floral industry.

Professional Standards in Agribusiness (.5 credit)
Course Number: 8376
Primarily focuses on leadership, communication, employer-employee relations, and problem solving as they relate to agribusiness. To prepare for careers in agribusiness systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to leadership development and the workplace, and develop knowledge and skills regarding agricultural career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

Professional Communications (.5 credit)
Course Number: 8100
blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research.

Video Production I (1 credit)
Course Number: 9008
Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the industry with a focus on pre-production, production, and post-production audio and video products.

Advanced Animal Science (1 Science credit)
Course Number: 8388
This course teaches students the basics of animal science including selection, health, anatomy and physiology, nutrition, and animal management.

Advanced Plant and Soil Science (1 Science credit)
Course Number: 8389

This is a course designed to examine the interrelatedness of human, scientific, and technological dimensions of crop production using the resources of land, soil, water, energy, and living organisms. Instruction is designed to expand one's knowledge of the scientific and technological dimensions of resources necessary for crop production.

WLDG1421 - Introduction to Welding Fundamentals (1 CTE Credit)
Course Number: 8248
An introduction to the fundamentals of equipment used in oxyacetylene and arc welding, including welding and cutting safety, basic oxy-acetylene welding and cutting, basic arc welding processes and basic metallurgy.

WLDG1428 - Introduction to Shielded Metal Arc Welding (1 CTE Credit)
Course Number: 8249
An introduction to shielded metal arc welding process. Emphasis placed on power sources, electrode selection, oxy-fuel cutting, and various joint designs. Instruction provided in SMAW fillet welds in various positions.

Certified Nurse's Aide - Earn a Business Industry Certification in CNA

The classes cover a broad range of topics, ranging from how to bathe a patient, to positioning a patient properly. You will learn about abuse and neglect, how to feed and dress a patient, proper body mechanics for lifting and turning patients. Also, topics such as recognizing depression, dealing with dementia, infection control issues, and catheter care. There is much to learn, and the classroom time is 60 hours that is partly lecture and part hands on skills training. The clinical aspect is 40 hours and that is where you will be working during shifts at a clinical site and mastering all the skills you were taught during your lecture and skills training.

At the end of clinical class, students who attain a passing grade will then be awarded the certificate of completion from Hamilton High School CNA program and then be allowed to sign up for the state exam to become licensed Certified Nurses Aides. The test will be administered to determine competency. This test consists of two parts, written and clinical. The written test is made up of basic care giving questions, all of which will be covered during class hours. The clinical test consists of performing five random nursing duties while a state examiner oversees your procedure. The duties you may be asked to perform can be anything from giving a bedpan to weighing a patient.

The important thing to remember, during this test and always, is patient dignity. Some of the things the person administering the test will be looking for is whether you wash your hands properly, and whether or not you remember patient dignity by knocking on the door, pulling the curtain for privacy, and explaining each procedure to the patient before performing it.

CNA (1 credit)
Course Number: 8000
Prerequisite: Must be in the 12th grade
There may be some Saturday clinicals.

Cosmetology - Earn a Business Industry Certification in Cosmetology

This program is a two year sequence that prepares students for careers in the field of cosmetology and the beauty industry. Learning opportunities for students include academic and professional knowledge and skills required in safety, sanitation, state laws, rules and regulations as well as skin, hair and nail diseases and disorders, hairstyling and cutting techniques, artificial hair and braiding, coloring, chemical relaxing, permanent waving, facial massage/skin care, facials, manicuring, pedicures, reception, customer service, sales, management interpersonal relations developments, employability skills as well as good work ethics. Students prepare to take the state license exam through the Texas Department of Licensing and Regulation upon completion of the two year, 1000 mandatory clock hours. Upon passing the state exam, students will be able to begin their exciting career in the beauty industry after graduation as a fully licensed cosmetologist.

Intro to Cosmetology (1 credit)
Course Number: 8090
No prerequisite
Can be taken as a 9th-12th grade student

Cosmetology 1 (3 credits)
Course Number: 8091
Prerequisite: Complete 9th and 10th grade
Mandatory before or after school
AM class begins at 7:30, 1st-3rd periods
PM class begins with 6th-8th periods and stay until 4:30

Cosmetology 2 (3 credits)
Course Number: 8092
Prerequisite: Cosmetology 1 the prior year and 500+ clock hours
Mandatory before or after school
AM class begins at 7:30, 1st-3rd periods
PM class begins with 6th-8th periods and stay until 4:30

Ranger College Dual Credit Welding - Earn a Business Industry Certification in Welding

WLDG1412 - Introduction to Flux Cored Arc Welding (2-4) 480508 (4 College Hours)
Semester 1 Course Number: 8250
Semester 2 Course Number: 8251
An overview of terminology, safety procedures, and equipment set-up. Practice in performing T-joints, lap joints, and butt joints using Flux Cored Arc Welding (FCAW) equipment.

WLDG1413 - Introduction to Blueprint Reading for Welders(2-4) 480508 (4 College Hours)
Semester 1 Course Number: 8253
Semester 2 Course Number :8254
A study of industrial blueprints. Emphasis placed on terminology, symbols, graphic description, and welding processes, including systems of measurement and industry standards. Interpretation of plans and drawings used by industry.

Career Preparation/Extended Career Preparation

CP I/CP II (3 credits per year)
CP I Course Number: 8505
CP II Course Number: 8510
Prerequisite: Complete 9th and 10th grades

This course provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. This instructional arrangement should be an advanced component of a student's individual program of study. Students are taught employability skills, which include job-specific skills applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

See rules that follow:

Program RULES:

1. Student must be employed for 15 hours per week, and 10 of the 15 hours MUST be during the school day.
2. Students may participate in ONE sport.
3. Students are expected to go to work as soon as their school day ends.
4. No more than 1 day off per week during the school week.
5. No employment by relatives unless approved by the school district.
6. Workstation must be approved by the course instructor.

CP is a three (3) credit course. Typically, the student will register for CP in three of the class periods in the class schedule. One period is the CP class, and 2 periods are for the work setting.

Students must complete a CP application form that is available in the high school counselor's office. Forms must be returned with registration materials.

Physical Education

PE (1 credit)
Course Number: 5001
The student will be required to participate in daily physical activity. The student will be challenged by physical activity. The student will be challenged physically, emotionally, and psychologically in the setting of strenuous activities. Students are expected to cover distances of up to two miles by jogging. They will begin and work up to advanced weight-lifting on a daily basis. Students will participate in and interact in team games, perform flexibility exercises and understand and progress into peer leadership roles which will require students to motivate less-mature and lesser-skilled students.

Athletics (1 credit per year)
Course Numbers:
Freshman Girls: 5055
Sophomore Girls: 5065
Junior Girls: 5075
Senior Girls: 5080

Freshman Boys: 5025
Sophomore Boys: 5030
Junior Boys: 5035
Senior Boys: 5051

The Hamilton High School Athletic Department's goal is to encourage and promote competition among all students. A variety of sports are offered: cross country, volleyball, football, basketball, powerlifting, golf, softball, baseball, track, and tennis.

In order to participate in the athletic program, the student must adhere to and abide by all Hamilton High School rules. Respect, attendance, and grades all are top priorities of the Athletic Department.

In order to enroll in athletics, the student must compete in a sport and complete the full season in that sport. If a student quits a sport before the end of the season and does not participate in another sport, that student will be removed from athletics by the athletic director. If a student does not participate in any athletic sport, the student may fail athletics. In order to sign up for the athletic class period, a student must provide on the registration form the appropriate class level {Freshmen Girls, Freshmen Boys, Varsity Girls, or Varsity Boys} and the sport(s) in which the student plans to participate for a full season the following year.

The off season program is a very important component of the athletic program. Underclassmen who plan to participate in a team sport the following year must complete the off season program.

Drugs, alcohol, and/or tobacco use by student athletes is strictly prohibited and will not be tolerated.

Other Electives

Student Aide (1 local credit)
Course Number: 6200
Prerequisite: Completed grades 9 and 10
Students will be assigned to work in school offices, libraries, or classrooms within the school district. Students must be trustworthy and able to handle working independently and treat business with confidentiality when appropriate.

Application for Admittance
Career Preparation

Career Preparation is an "innovative course" approved by the Texas Education Agency for state graduation elective credit. The students who enroll in the course will gain from two (2) to three (3) elective credits depending on the work schedule for the student. CP offers students the opportunity to train in businesses of different types during the afternoon, and to receive related training at school during the other part of the day. It is not a "work" program.

The student will take all of the regular courses needed for high school graduation. The student will have one period of the day scheduled as a CP 1 or CP 2 class and typically will have two class periods (afternoon) scheduled at the training station in order to receive a total of 3 credits. The student receives training and salary from the employer for work hours. *Students admitted into this program must be employable, industrious, honest, and willing to abide by school and employer's rules and regulations. Prior program performance may be considered in admission decisions.*

Admittance of students into the CP program is contingent upon:

1. Instructor and/or principal approval
2. Availability of suitable training stations
3. School attendance record - students who have a history of poor attendance and do not meet the requirements for compulsory school attendance may not be allowed into the CP program.
4. School discipline record - students who have ever been assigned to DAEP may be denied admittance into the CP program.
5. Students will have 10 school days from the start of the first day of school to be placed in a training station. Students who at the end of the 10 day period who do not have a training station will be dismissed from the program. Every effort will be made to assist the student in obtaining a training station but it cannot be guaranteed that the student will receive one.

Other program rules are:

1. Students should be employed during the school day.
2. Work an average of 15 hours of work each week, at least 10 of which are received Monday through Friday.
3. No employment by immediate relatives without approval by the school district.
4. Job changes only with proper notice to the employer and approval by school district.
5. If the student misses school, the student may not go to work that day. The student is required to report all absences to the school and notify employer.
6. Salary agreement must be completed and submitted to the instructor. (See Mrs. Crouch for information)

Violation of these and/or other program rules can result in dismissal from the program, loss of job, and loss of credits.

Please type or print in dark ink.

Name: _____ Grade: _____ Telephone #: _____

Parent/Guardian Name:_____

Type of Business for which you would like to be trained: _____

Name of Store/Business in which you would like to be trained: _____

Are you currently employed? _____ If yes, by whom/where?_____

What means of transportation will you use to get to your training station? _____

List two references: 1) _____ Phone #_____

2) _____ Phone #_____

Student Signature: _____Date:_____

Parent/Guardian Signature: _____Date:_____

For Office Use Only: ☐ Approved ☐ Not Approved

CP Instructor Signature:_____ Principal Signature:_____

The Hamilton I.S.D and its career and technology education program does not discriminate on the basis of sex, disability, race, color, age or national origin in its educational programs, activities or employment as required by Title IX, Section 504 and Title VI.