

2023-2024

High School Course Selection Guide



Handbook prepared by the High School Course Selection Guide Committee

MISSION

Montgomery ISD, in partnership with families and the community, will grow and develop future generations of leaders and productive citizens by offering innovative academic programs responsive to every student's individual needs. The district will prepare all students for the college, career, or military opportunity of their choice and will educate the whole child by addressing student social and emotional well-being. The workplace culture of Montgomery ISD will be one of positivity, collaboration, and trust.

Montgomery ISD will accomplish this mission through an unwavering commitment to increasing academic outcomes for all students; providing safe school environments where productive academic instruction can occur; exercising fiscal transparency while being responsible fiduciaries of taxpayer dollars; offering world class educational tools, resources and facilities; recruiting, hiring, growing, and retaining high-quality educators and employees; and engaging in clear and consistent communication with parents, staff, and stakeholders.

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GENERAL INFORMATION

The material in this guide is intended to provide students with essential information concerning Texas graduation requirements, as well as Montgomery Independent School District curriculum and course descriptions. The guide also includes academic policies and procedures. Students who plan to attend college after graduation should also research and consider the requirements outlined by that institution when selecting courses.

In addition to the comprehensive information in this booklet, counselors will make every effort to provide students and parents with additional information concerning graduation requirements, career choices, post-secondary education, universities, technical schools, military service and financial aid. Parent orientations and workshops are provided for college admissions and for financial aid, high school graduation requirements and registration. Research information, computer technology and assistance are also available through the College and Career Center. It is ultimately the responsibility of the student with the assistance of his/her parents to become familiar with the graduation programs, select the program that best meets his/her post-secondary goals and meet those related requirements.

We are pleased to assist with questions or concerns during the high school years. Contact the appropriate campus' Counseling Center and College & Career Center at:

Counseling Center	Montgomery High School	Lake Creek High School
College & Career Center	(936) 276-3030	(936) 276-4029
	(936) 276-3037	(936) 276-4036

While every effort has been made to make the information provided in this Guide as detailed and accurate as possible, there is no guarantee that it is 100% error-free, nor does it supersede established policies and rules as set forth by Montgomery ISD. Contact the counseling department for questions or clarifications. The information provided here is current as of December 2022. A copy of this entire guide and catalog is available on the district website (www.misd.org) which will have corrections and the most recent updates of this handbook.

PUBLIC NOTIFICATION OF NONDISCRIMINATION IN CAREER AND TECHNICAL EDUCATION PROGRAMS. It is the policy of Montgomery ISD not to discriminate on the basis of race, color, national origin, gender, or handicap in its vocational programs, services or activities as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973, as amended. Montgomery ISD will take steps to assure the lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs. For information about your rights or grievance procedures, contact the Title IX Coordinator, Denise Miner (936) 276-2000 and/or the Special Education/ Section 504 Coordinator Alayna Siemonsma, (936)276-2464, 20774 Eva St., Montgomery, Texas 77356.

Es politica de Montgomery ISD no hacer ningun tipo de discriminacion por raza, color, lugar de origen, genero, o discapacidad, respecto de sus programas, servicios o actividades vocacionales, tal como lo exige el Titulo VI de la Ley de Derechos Civiles de 1964, segun enmienda; el Titulo IX sobre Emmiendas Educativas, de 1972, y la Seccion 504 de la Ley de Rehabilitacion de 1973, segun enmienda. Para mayor informacion sobre sus derechos o los procedimientos para poner una queja, comuniquese con el Coordinador del Titulo IX, Denise Miner (936) 276-2000 y/o el Educacion Especial/ Coordinador de la Seccion 504, Alayna Siemonsma (936) 276-2464, 20774 Eva St., Montgomery, Texas 77356.

Please Note: A course fee should not discourage students from taking a course if financial aid is needed and whom to contact if assistance is needed.

Section I

Academic Guide

GRADUATION PROGRAMS

FOUNDATION HIGH SCHOOL PROGRAM (FHSP) WITH ENDORSEMENT*	
ENGLISH	4
English I, II, III, and an additional English course	
MATHEMATICS	4
Algebra I, Geometry, and 2 additional math courses	
SCIENCE	4
Biology, Chemistry or IPC, and 2 additional science courses	
SOCIAL STUDIES	3
World History or World Geography, U.S. History, Government/ Economics	
PHYSICAL EDUCATION	1
Physical Education or state approved alternatives (athletics, marching band, etc.)	
FINE ARTS	1
WORLD LANGUAGES	2
Must consist of 2 levels in the same language	
ELECTIVES	7
4 of the 7 elective credits in the FHSP must be chosen from the five endorsement categories of STEM, Business & Industry, Arts & Humanities, Public Services, and/or Multidisciplinary Studies. 2 Electives must be chosen from CTE courses for FHSP without endorsement.**	
TOTAL FHSP CREDITS 26	

*To graduate without an endorsement you must have committee approval.

**The following requirements apply to students first entering 9th grade in the Fall of 2021 and thereafter.

ENDORSEMENTS
<p>All students are required to declare an endorsement in writing. Students will be permitted to change their endorsement with written notification. The endorsement and the career areas to which they correspond are as listed below:</p> <p>STEM – Science (including environmental science), Technology (including computer engineering); Engineering (PLTW), advanced Math, and Robotics</p> <p>BUSINESS & INDUSTRY – database management, information technology, communications, accounting, finance, marketing, graphic design, architecture, construction, welding, culinary arts and hospitality, automotive technology, and agricultural science</p> <p>PUBLIC SERVICES – health sciences and medical occupation, education and training, military service in the armed forces (to include the Coast Guard and National Guard), and law enforcement</p> <p>ARTS & HUMANITIES – political science, world languages, cultural studies, English literature, history, and fine arts</p> <p>MULTIDISCIPLINARY STUDIES – Allows a student to select courses from the curriculum of each endorsement area and earn credits in a variety of advanced courses from multiple content areas sufficient to complete the distinguished level of achievement.</p>

RECOGNITIONS
<p>DISTINGUISHED LEVEL OF ACHIEVEMENT <i>(Eligible for Automatic College Admissions)</i></p> <ul style="list-style-type: none"> • 4 credits of Math, including Algebra II • 4 credits of Science • completion of curriculum requirements for at least 1 endorsement <p>PERFORMANCE ACKNOWLEDGEMENT A student may earn a performance acknowledgement on their transcript for-</p> <ol style="list-style-type: none"> 1. outstanding performance <ul style="list-style-type: none"> • in a dual credit course • in bilingualism and bi-literacy • on an AP exam or IB exam • on the PSAT, the ACT-Plan, the SAT, or the ACT 2. earning a nationally or internationally recognized business or industry certification or license

STATE ASSESSMENT PERFORMANCE
<p>In addition to the credit requirements listed above, students must meet passing standards on the following STAAR End-of-Course Exams:</p> <ul style="list-style-type: none"> • English I, English II , Algebra I , Biology , and United States History

ACADEMIC COURSE GUIDE

Students are required to graduate with at least 26 credits.
Foundation Requirements + Endorsement Pathway

English 4 Credits

- English I
- English II
- English III, DC, AP Language
- English IV, DC, AP Literature, Debate III, Film as Literature, College Readiness English IV

Math 4 credits

- 1st: Algebra I
- 2nd: Geometry
- 3rd and 4th: (select two or more)
 - Algebra II
 - AQR
 - Pre-Calculus
 - AP Statistics
 - AP Precalculus
 - AP Calculus AB
 - AP Computer Science
 - Algebraic Reasoning
 - College Readiness Math (12th only)
 - Digital Electronics (CTE)
 - Dual Credit College Algebra
 - Dual Credit Math for Business & Social Sciences
 - Dual Credit Calculus for Business
 - Dual Credit Statistics
 - Financial Math (CTE)
 - Math Models

Social Studies 3 credits

- World Geography or AP Human Geography
- World History or AP World History
- US History, AP US History, or DC (11th grade)
- Government/Economics or DC (12th grade)

Electives

7 credits to include courses for the Endorsement Pathway

World Languages
2 credits of the same language

Science 4 credits

- 1st: Biology
- 2nd: Chemistry or IPC
**Please note that Chemistry is required for STEM endorsement*
- 3rd and 4th: (select two or more)
 - Advanced Animal Science (CTE)
 - Anatomy & Physiology (CTE)
 - AP Biology or DC Biology
 - AP Chemistry
 - AP Environmental Science
 - AP Physics 1, 2
 - Aquatic Science
 - Astronomy
 - Chemistry
 - Engineering Design & Problem Solving (PLTW)
 - Environmental Science
 - Forensic Science (CTE)
 - Pathophysiology (CTE)
 - Physics
 - Plant and Soil Science (CTE)
 - Principles of Engineering (PLTW)

PE 1 credit

- Lifetime Fitness and Wellness Pursuits
- Lifetime Recreation and Outdoor Pursuits
- Skill-Based Lifetime Activities
- Athletics (4 credits max)
- MJROTC (4 credits max)
- Off campus PE (meet requirements and guidelines)
- Dance Team (1 credit only)
- Marching Band (2 credits)
- Cheerleading (1 credit only)

Fine Arts 1 credit

- Art
- Band
- Choir
- AP Art History
- Dance
- Floral Design (CTE)
- Theater

ENDORSEMENT PATHWAYS

Business and Industry

- Agriculture, Food, and Natural Resources
 - Animal Science
 - Plant Science
 - Applied Agricultural Engineering
- Architecture and Construction
 - Architectural Design
- Arts, Audio/Video Technology, and Communications
 - Digital Communications
 - Design Multimedia and Arts
- Business, Marketing, & Finance
 - Accounting and Financial Services
 - Business Management
 - Marketing and Sales
- Hospitality and Tourism
 - Culinary Arts
- Manufacturing
 - Advanced Manufacturing and Machinery Mechanics
- Journalism (English Electives)

Public Services

- Education and Training
 - Teaching and Training
- Health Science
 - Healthcare Therapeutic
- Human Services
 - Family and Community Services
 - Cosmetology
- Law and Public Service
 - Law Enforcement
 - Emergency Services
 - Legal Studies
- JROTC

Science, Technology, Engineering, and Math (STEM)

- Science, Technology, Engineering and Math (STEM)
 - Cybersecurity
 - Engineering
- Math
- Science

Arts and Humanities

- Art
- Theater
- Dance
- Spanish
- Choir
- Band
- Humanities

Multidisciplinary Studies

- 4 Advanced credits from within one or more Endorsement Areas or
- 4 credits in each of the Foundation subject areas; to include English IV & Chemistry and/or Physics; or
- 4 Advanced Placement (AP) or Dual Credit (DC) courses in the following; English, Math, Science, Social Studies, Economics, Language Other Than English (LOTE) and/or Fine Arts

A student completing and passing three or more 19 TAC Chapter 126 (C), 127 (B) or 130 CTE courses for a total of four or more credits within a program of study, including one level three or level four course from within the same program of study will be considered a CTE Completer.

If you would like further information about the available graduation plans, visit the link below to the TEA Website for clarification. <http://tea.texas.gov/graduation-requirements/hb5.aspx>

GRADE LEVEL CLASSIFICATION

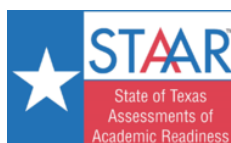
A student is classified according to the number of credits earned at the beginning of the school year. A student beginning the school year as a freshman WILL NOT be reclassified at midterm; however, a repeat sophomore or junior who earns the required number of credits by the spring semester WILL BE RECLASSIFIED. A fourth year junior will be reclassified to senior status immediately upon earning the required 18 credits.

Grade Level Classification			
Grade	Classification	Credits	Year in High School
9th	Freshman	0 - 5.5	1st year in high school
10th	Sophomore	6 - 12.5	2nd year in high school
11th	Junior	13 - 17.5	3rd year in high school
12th	Senior	18 - 25.5	4th year in high school

HIGH SCHOOL GRADUATION TESTING REQUIREMENTS

State Of Texas Assessments Of Academic Readiness (STAAR)

Beginning with the Freshman class of 2011-2012, a student must earn passing scores on 5 End-of-Course (EOC) exams, in addition to earning all required course credits for their graduation plan, to earn a diploma. Students must meet all graduation course credit requirements and EOC requirements to be eligible for graduation. A student electing to substitute an assessment for graduation purposes must still take the corresponding EOC assessment required under the TEC, §39.023(c), at least once for federal accountability purposes. If a student sits for an EOC assessment, a school district may not void or invalidate the test in lieu of a substitute assessment.



English Language Arts	Math	Science	Social Studies
English I English II	Algebra I	Biology	US History

There are three testing windows during the year in which a student may take an EOC assessment, which will occur during the fall, spring, and summer months. If a student does not receive a passing score, the student will have additional opportunities to retake the assessment. In limited circumstances, a student who fails to demonstrate proficiency on two or fewer of the required assessments may still be eligible to graduate, if an Individual Graduation Committee (IGC), formed in accordance with state law, unanimously determines that the student is eligible to graduate.

STAAR-Alternate 2 is available for eligible students receiving special education services who meet certain criteria established by the state as determined by the student's ARD committee. An ARD committee for a student receiving special education services will determine whether successful performance on the EOC assessments will be required for graduation within the parameters identified in state rules and the student's personal graduation plan. An ARD committee for a student receiving special education services will determine whether successful performance on the EOC assessments will be required for graduation within the parameters identified in state rules and the student's personal graduation plan (PGP).

STAAR EOC Performance Standards

To find the most recent STAAR EOC Performance Standards, visit the TEA website at:

<http://tea.texas.gov/student.assessment/staar/performance-standards>

AWARD OF CREDIT

Per board policy, when a student earns a passing grade in only half of a course and the combined grade for both halves is lower than 70, the District shall award the student credit for the half with the passing grade.

SUMMER SCHOOL

Summer school courses may be used for acceleration/remediation or retrieval of credit depending on the offering institution. Courses offered should be comparable to the same courses taught during the regular school semester(s) in content and achievement standards. Grades earned in this manner are not included in the GPA and not used for ranking purposes, nor do they replace grades earned during the regular school year on the AAR. Lone Star Community College courses offered for original credit in the summer will be included in the GPA. Students should see their assigned counselor for additional information.

DISTANCE LEARNING AND CORRESPONDENCE COURSES

In addition to course offerings, the district provides other options for earning high school credits. Distance learning and correspondence courses include courses that encompass the state-required essential knowledge and skills but are taught through multiple technologies and alternative methodologies such as mail, satellite, internet, video-conferencing, and instructional television. The distance learning opportunities that the district makes available to district students is through the Texas Virtual School Network (TxVSN). If a student wishes to enroll in a correspondence course or a distance learning course that is not provided through the Texas Virtual School Network (TxVSN), in order to earn credit in a course or subject, the student must receive permission from the principal prior to enrolling in the course or subject. If the student does not receive prior approval, the district may not recognize and apply the course or subject toward graduation requirements or subject mastery. Credits earned through credit by examination, correspondence, CLEP, summer school, junior high and virtual school are not included in the GPA and are not used for ranking purposes nor do they replace grades earned during the regular school year on the Academic Achievement Record. The following information should be helpful to students and parents who wish to consider these options.

CORRESPONDENCE COURSES

State-required credits for graduation may be earned through correspondence courses. Courses must be taken from the University of Texas Extension Division or the Extension Division of Texas Tech University. The student is responsible for fees and books required for correspondence courses.

- **Correspondence Courses for Initial Credit:** A student may take a maximum of four (4) semesters (2 credits) through correspondence. Information for correspondence courses is available through the Counseling Center.
- **Correspondence Courses for Retrieval of Credit:** Information for correspondence courses for retrieval of credit is available through the Counseling Center.

Correspondence grades must be received by May 1st if the grades are necessary for graduation. Students will not be allowed to use these grades for purposes of participating in the graduation exercise after this date. Grades earned in this manner are not included in the GPA and not used for ranking purposes nor do they replace grades earned during the school year on the AAR.

DISTANCE LEARNING

The Texas Virtual School Network (TxVSN) has been established by the state as one method of distance learning. A student has the option, with certain limitations, to enroll in a course offered through the TxVSN to earn course credit for graduation. The Superintendent or designee shall establish procedures for students to enroll in courses provided by the Texas Virtual School Network (TxVSN). Enrollment in courses through the TxVSN shall not be subject to limitations the district may impose for other distance learning courses. Montgomery ISD will deny requests by students to take a course through TxVSN if our district already offers a substantially similar course.

CREDIT BY EXAMINATION (CBE)

The exams offered by the district are approved by the district's board of trustees and state law requires the use of certain exams. The College Board Advanced Placement (AP) exams and College Level Examination Program (CLEP) tests, examinations developed by Texas Tech University and The University of Texas at Austin, and examinations developed by the school district can be used for CBE. The dates on which exams are scheduled are published on the district's website. During each testing window provided by the district, a student may attempt a specific exam only once. **Student athletes must be aware that the NCAA does not recognize the credits earned through Credit by Exam.*

Credit by Exam Without Prior Instruction (For Acceleration)

A student will be permitted to take an exam to earn original credit for an academic course or subject area for which the student has had no prior instruction to accelerate to the next grade level. There is no fee for examinations for acceleration. Students may not attempt more than two times to receive credit for a particular subject on the basis of an examination for credit in that subject.

Performance Criteria for Acceleration:

1. A three or higher on a College Board advanced placement examination that has been approved by the board for the applicable course;
2. A scaled score of 50 or higher on an examination administered through the College-Level Examination Program (CLEP) and approved by the board for the applicable course; or
3. Eighty percent or above on any other criterion-referenced test approved by the board for the applicable course.

Granting and Recording Credit: If credit is granted, the examination score will be entered on the student's transcript and the student is not required to take an end-of-course assessment instrument for that subject. Test scores will be posted to the AAR and credit will be awarded for satisfactory performance. No advanced course designations will be given. CBE grades will not be computed in the GPA and/or used for ranking purposes.

Credit by Exam With Prior Instruction (For Verification)

Eligible students have the opportunity to earn credit in courses for which they have had prior instruction through CBE. See the counselor for specific information about courses and requirements. The high school CBE for verification program is for students who participated in homeschooling, attended a non-accredited school or had a non-traditional academic background. Students may not attempt more than two times to receive credit for a particular subject on the basis of an examination for credit in that subject.

Performance Criteria for Verification:

1. A three or higher on a College Board advanced placement examination that has been approved by the board for the applicable course;
2. A scaled score of 50 or higher on an examination administered through the College-Level Examination Program (CLEP) and approved by the board for the applicable course; or
3. Seventy percent or above on any other criterion-referenced test approved by the board for the applicable course.

Granting and Recording Credit: Test scores will be posted to the AAR and credit will be awarded for satisfactory performance. No advanced course designations will be given. CBE grades will not be computed in the GPA and/or used for ranking purposes.

JUNIOR HIGH COURSEWORK

High school courses taken in junior high school will earn credit toward the 26 credits required for graduation. However, it is strongly suggested that students complete four (4) math credits in high school for college readiness. Grades earned in junior high are not included in the GPA and not used for ranking purposes nor do they replace grades earned during the regular school year on the AAR.

FOREIGN EXCHANGE STUDENTS

The purpose of a foreign exchange program is for cultural and social enrichment. Foreign exchange students are not eligible to graduate from MISD nor will they be issued a diploma. MISD cannot complete I-20 forms for any foreign exchange student because Texas law does not allow school districts to charge these students to attend school. This

form requires that the District acknowledge the acceptance of tuition from students who attend District schools but aren't residents of the United States.

A student that enrolls in MISD as a foreign exchange student must have approval from the District by August 1 of the school year he/she wishes to enroll and will only be accepted in the fall; there is no mid-term enrollment for a foreign exchange student. The host family must reside within MISD's attendance zone. Additional courses to complete the schedule should enhance the cultural and social experience of the exchange. If an exchange student wishes to enroll in mathematics or science, he/she must, upon enrollment in MISD, provide recommendations for the level of math and/or science that is best matched for his/her success. A foreign exchange student must meet the prerequisites, guidelines and level changes as all other MISD students. Regardless of the year in school in their home country, a foreign exchange student is classified as an eleventh grade student. A foreign exchange student will be required to take STAAR EOC assessments for courses in which he/she is enrolled. A foreign exchange student is encouraged to participate in clubs, activities and athletics while enrolled in high school, as well as present information about their home country to the MISD community.

INTERSCHOLASTIC COMPETITION ELIGIBILITY

Students in grades 7 through 12 may participate in extracurricular activities on-campus or off-campus at the beginning of the school year only if they have earned the cumulative number of credits in state-approved courses as indicated below, with the exception of special education students whose status is defined by the ARD committee and their own IEP's.

- 1) Beginning in Grade 7 and continuing through Grades 8 and 9: must have been promoted from previous grade, not placed.
- 2) Beginning in Grade 10 or the second year of high school (Grades 9 through 12): must have earned five (5) state credits.
- 3) Beginning in the third year of high school: must have earned ten (10) state credits or must have earned five (5) state credits during the preceding 12 months.
- 4) Beginning in the fourth year of high school: must have earned 15 state credits or must have earned five (5) state credits during the preceding 12 months.

Credits earned in summer school, distance learning or in correspondence may be used to determine eligibility.

At the end of a grading period, a student who receives a grade below 70 (grade below 65 in an Advanced Placement, or an advanced or a dual credit course in English/Language Arts, mathematics, science, social studies, economics, or a foreign language) in any academic class may not participate in extracurricular activities for at least three school weeks. The student becomes ineligible seven (7) days after the last day of the grading period. For example, if the grading period ends at 2:35 p.m. on Friday, October 4, the suspension would take effect at 2:35 p.m. on Friday, October 11.

A student regains eligibility seven calendar days after the school's three-week evaluation period, if the student is passing all courses on that last class day. The student's work is evaluated from the first class day of the new grading period to the end of the three school week evaluation period. If the student has at least a minimum grade of 70 on a scale of 70 -100 for work done since the end of the previous grading period, the student may regain eligibility seven calendar days later at the time the regular school day ends. Parents and students are encouraged to consult the coach/sponsor if there is a question.

**Please Note: Schools taking breaks of one week or more are reminded that those weeks do not count as part of this period. All students are eligible during this time.*

Students who assist the sponsor or coach, such as student managers, must meet all academic eligibility requirements even though they do not participate in the performance or contest. Students must also be in attendance at least one half-day prior to competition or practice to be eligible for either practice or activity. Lastly, a student receiving a course grade of "I" (Incomplete, pending completion of required work) is considered ineligible until the "I" is replaced with a passing grade for that grading period.

Courses Exempted From No Pass / No Play

Below is a list of advanced courses to be exempted for No Pass - No Play purposes, as per SB 1517, section 33.081 Education Code. For the purpose of determining student eligibility in extracurricular activities on-campus or off-campus, a grade below 65 in any of these classes will make a student ineligible for those extracurricular activities for at least three school weeks. Refer to "Interscholastic Competition Eligibility" for additional explanation.

Advanced Debate II-IV
Advanced English I-II
AP English Language & Composition
AP English Literature & Composition
Advanced World Geography
Advanced World History: Modern History
AP European History
AP Human Geography
AP Macroeconomics
AP Psychology
AP US Government & Politics
AP US History
AP World History
AP Music Theory

AP 2-D Art and Design
AP 3-D Art and Design
AP Drawing
Advanced Spanish II-III
AP Spanish Language
AP Spanish Literature
Advanced Algebra I-II
Advanced Geometry
Advanced Pre-Calculus
AP Calculus AB
AP Statistics
Advanced Biology
Advanced Chemistry
AP Biology

AP Chemistry
AP Environmental Science
AP Physics 1
AP Physics 2
AP Computer Science A
AP Computer Science Principles
All Dual Credit & Dual Credit CTE courses
All year-long Project Lead the Way courses
AP Art History
AP Seminar
AP Research
Pre-Calculus
AP Pre-Calculus
World Languages IV-VI

GIFTED & TALENTED ACADEMIC SUPPORT

Students identified to receive Gifted and Talented services are predominantly served through Advance Level and Advanced Placement courses at the 9th and 10th grade levels and by Dual Credit and Advanced Placement courses at the 11th and 12th grade levels. Students not enrolled in these courses receive differentiated instruction to meet their educational needs.

Gifted and Talented students are required to participate in experiences that result in the development of sophisticated products and/or performances that are targeted to an audience outside the classroom, which are provided through gifted and talented curricula. These experiences include, but may not be limited to the following opportunities and/or courses;

- Travel and Study Abroad (Summer Semester)
- Student Leadership
- AP Seminar (10-11 Grade)
- AP Research (11-12 Grade)
- Gifted-Talented Interdisciplinary Studies Seminar I, Seminar II, Seminar III, Seminar IV
- Engineering Design Development (PLTW - Seniors)

Information regarding testing for Gifted and Talented services may be obtained by contacting the campus counseling office.

COLLEGE CREDIT COURSES

Students in grades 9-12 have opportunities to earn college credit through the following methods:

- Advanced Placement (AP) Courses and/or Dual Credit (DC) Courses taught in conjunction and in partnership with Lone Star Community College, which may be offered on the high school campus, the Lone Star Campus, or online;
- Enrollment in an AP or dual credit course through the Texas Virtual School Network (TxVSN);
- Enrollment in courses taught at other colleges or universities; and certain high school CTE courses
- The MISD Board of Trustees shall approve courses for which high school credit shall be granted.

ADVANCED PLACEMENT (AP) COURSES

The Advanced Placement (AP) Program is a program of college-level courses and exams for secondary students provided on the high school campus. The Advanced Placement Program is administered by the College Board and is a national program. For students who are willing and able to apply themselves to college-level studies while in high school, the program enriches both the secondary and post-secondary educational experience. It also provides the means for colleges to grant credit, placement or both to students who have attained a high level of mastery on an AP Exam. Approximately 2,200 colleges receive these grades and use them as the basis for granting credit and/or placement to entering students whose scores meet their requirements. Colleges may award credit based on the score of the AP Exam. All students enrolled in AP courses will be required to take the AP exam and will pay for the exam(s) at the beginning of the school year. The approximate cost of the exam is \$97. The approximate cost for AP Capstone Exams (AP Seminar and AP

Research) is \$145. Financial assistance is available for students that qualify, based on their enrollment in the Federal Free and/or Reduced Lunch Program. If a payment plan is required, contact the school administration.

MISD offers these Advanced Placement courses:

- 0532 AP Language and Composition
- 0542 AP Literature and Composition
- AP Precalculus
- 1063 AP Calculus AB
- 1071 AP Statistics
- 1523 AP Biology
- 1533 AP Chemistry
- 1542 AP Physics I
- 1543 AP Physics II
- 1562 AP Environmental Science
- 2013 AP Human Geography
- 2023 AP World History:Modern
- 2024 AP European History
- 2032 AP U.S. History
- 2042 AP U.S. Government & Politics
- 2053 AP Macroeconomics
- 2062 AP Psychology
- 4042 AP Spanish Language
- 4043 AP Spanish Literature
- 4372 AP Music Theory
- 4562 AP 2-D Art and Design
- 4563 AP 3-D Art and Design
- 4564 AP Drawing
- 4565 AP Art History
- 5816 AP Computer Science Principles
- 5812 AP Computer Science A
- 4902 AP Seminar*
- AP Research*

**Please note: Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing will receive the AP Capstone Diploma™. Students who earn scores of 3 or higher in AP Seminar and AP Research but not on four additional AP Exams will receive the AP Seminar and Research Certificate™.*

Advanced & Advanced Placement (AP) Criteria

Advanced and AP classes in Montgomery Independent School District are designed to challenge students beyond level coursework. All willing and academically prepared students have the opportunity to participate in AP. Students who opt in to advanced academic coursework should demonstrate mastery on their most recent course related assessments. While we expect students to be successful in all advanced academic coursework, a close look at the student's total course load and commitments to other activities should also be considered when choosing how many advanced academic courses to take. The decision to enroll in advanced academic courses ultimately rests with the parents and the students.

Please note:

- An Advanced/AP Agreement must be submitted along with the course registration form.
- A grade of 65 or above in an Advanced/AP/DC class meets UIL eligibility standards. However, a grade of 65-69 is not considered a passing grade in regard to satisfactory progress.
- A student who enrolls in an AP class will be required to take the AP exam associated with the class. Payment for the AP exam is due at the end of the first semester. Failure to pay for the AP exam will result in the removal of the student from the AP class.

Advanced & Advanced Placement (AP) Exit Guidelines

Students may exit an Advanced/AP course with parent approval within the first 5 school days or at the end of the 1st grading period of the first semester if they have an average below 75 or they may exit at the end of the first semester. If there is no level course for students to exit to, then the student must remain in the class. When a student transfers from an Advanced/AP course, the grades for that student will transfer to the course in which the student enters. If a student moves at the end of the 1st grading period, the grade transfers to the level class and to a level grade. If a student moves at the end of the semester, the semester grade will receive advanced grade points.

COURSES THAT STUDENTS MAY NOT EXIT AS NO EQUIVALENT LEVEL COURSE IS AVAILABLE:

- 0572 Advanced Debate II
- 0573 Advanced Debate III
- 0574 Independent Study In Speech / Debate IV Advanced
- AP Pre-Calculus
- 1063 AP Calculus AB
- 1071 AP Statistics
- 1523 AP Biology
- 1533 AP Chemistry
- 1543 AP Physics II
- 1562 AP Environmental Science
- 2024 AP European History
- 2053 AP Macroeconomics
- 2062 AP Psychology
- 4042 AP Spanish Language
- 4043 AP Spanish Literature
- 4372 AP Music Theory
- 4562 AP 2-D Art and Design
- 4563 AP 3-D Art and Design
- 4564 AP Drawing
- 5812 AP Computer Science A
- 5816 AP Computer Science Principles
- 4565 AP Art History
- 4902 AP Seminar
- AP Research

DUAL CREDIT (DC) COURSES

Dual credit allows a student to earn high school credit while completing a college course. Dual credit is part of the Lone Star College System, designed specifically for high school students ready for college-level instruction. A dual credit world language course is available for sophomores with successful completion of both Spanish I & II and qualifying scores. Students who demonstrate college readiness on a placement exam can earn college and high school credits simultaneously by attending classes at their high school or at Lone Star College. Many of the classes are transferable to

public colleges or universities in Texas, and some are accepted by out-of-state and private colleges.

<https://www.lonestar.edu/MONTGOMERYDUALCREDIT>

- Dual credit courses are college level academic or technical courses taken by high school students for which they receive high school credit and college credit concurrently.
- Typically, courses are open to students in grades 11-12 (including summer of the sophomore and junior year) who are in good academic standing.
- Students successfully completing an Academic dual credit course will receive weighted GPA points.
- A college or university awards credit for a dual credit course immediately after a successful completion of the course.
- Dual credit courses require high school students to pay tuition and fees, including books and supplies.
- Dual credit courses may be offered in one of the following ways:
 - The course may be taught on the college campus by a college instructor.
 - The course may be taught on a high school campus by a college instructor.
 - The course may be taught on a high school campus by a qualified high school teacher, or the course delivered by a qualified instructor from another ISD via distance learning capabilities.
 - Online refers to a course that is delivered 100% via web-based instruction.

MISD offers Academic Dual Credit in these Lone Star College Courses

MISD Instructor taught on campus	Online Course taken on high school campus
ENGLISH	CRIMINAL JUSTICE
ENGL 1301/1302 -Composition & Rhetoric I & II ENGL 2332/2311 -Survey of World Literature I & Technical & Business Writing	CRIJ 1301 -Intro To Criminal Justice (Fall) CRIJ 1306 -Court Systems & Practices (Spring)
HISTORY	ECONOMICS
HIST 1301/1302 -United States History I & II	ECON 2301 -Macroeconomics
MATH	GOVERNMENT
MATH 1314 -College Algebra MATH 1324 -Math for Business & Social Science MATH 1342 -Statistics MATH 1325 -Calculus for Business & Social Science	GOVT 2305 -Federal Government GOVT 2306 -Texas Government
SPANISH	HISTORY
*SPAN 2311 -Intermediate Spanish I	HIST 2301 -Texas History
<p>*Student must test into SPAN 2311 by one of the following:</p> <ul style="list-style-type: none"> ● Take the AVANT at LSC (\$25) ● Take a placement exam at high school provided and graded by LSC <p>If a student passes SPAN 2311 with a C or higher, the student will earn credit for SPAN 1411, 1412, & 2311.</p>	SCIENCE
	BIOL 1406 -Biology I for Science Majors (Fall) BIOL 1407 -Biology II for Science Majors (Spring) BIOL 1408 -Biology I for Non-Science Majors (Fall) BIOL 1409 -Biology II for Non-Science Majors (Spring)
<p><i>Dual Credit Courses may be offered by an MISD certified teacher, on Lone Star College campus with a LSC professor, or online. Online Dual Credit courses will be taken at the student's MISD high school campus and built in their schedule.</i></p>	SOCIAL & BEHAVIORAL SCIENCES
	PSYC 2301 -General Psychology SOCI 1301 -Principles of Sociology
	SPEECH
SPCH 1311 -Introduction To Communication SPCH 1315 -Public Speaking SPCH 1321 -Business and Professional Communications	

MISD offers Workforce Dual Credit in these Lone Star College Courses

Designed to allow high school students to enroll in LSCS credit workforce programs and receive high school credit for career and technical classes. Students who participate in these classes/programs will graduate with career skills and in many cases, a certification approving them for employment in their industry. Fees and supplies for these courses typically average between \$200 and \$300. These courses may not correspond with MISD school hours.

Courses taken at Lone Star College

AUTO TECHNOLOGY

AUMT 1405 -Introduction to Automotive Technology
 AUMT 1407 -Automotive Electrical Systems
 AUMT 1410 -Automotive Brake Systems
 AUMT 1416 -Automotive Suspension and Steering Systems

MACHINING

MCHN 1302 -Print Reading for Machine Trades
 MCHN 1343 -Machine Shop Mathematics
 MCHN 1338 -Basic Machine Shop I
 MCHN 1352 -Intermediate Machining I

WELDING

WLDG 1421 -Welding Fundamentals
 WLDG 1428 -Introduction to Shielded Metal Arc Welding
 WLDG 1417 -Introduction to Layout and Fabrication
 WLDG 1457 -Interm Shielded Metal Arc Welding
 WLDG 1430 -Intro-Gas Metal Arc Welding
 WLDG 1434 -Intro to Gas Tungsten Arc Welding
 WLDG 2447 -Advanced Gas metal Arc Welding
 WLDG 2451 -Advanced Gas Tungsten Arc Welding

Dual Credit Eligibility Requirements:

- The student has a current admissions application on file with LSCS.
- The student has an admission form with approvals from their high school dual credit coordinator, college designee, and parent/guardian.
- The student has taken an approved assessment-

LONE STAR COLLEGE DUAL CREDIT PLACEMENT QUALIFICATIONS

High school students can be waived from taking the TSIA2 by submitting approved placement scores, typically taken in the 10th grade, for 11th grade Dual Credit eligibility. A high school student may be exempt or waived from taking the TSIA2 by meeting one of the following requirements.

ASSESSMENT	ELAR	Composite	MATH
STAAR/EOC	English II: Scaled Score of 4000+ on Reading and Writing	NA	Algebra I: Scaled Score of 4000+ AND passing Algebra II HS Course
PSAT/NMSQT <small>*PSAT 8/9 does not qualify students for dual credit.</small>	460	NA	510
SAT	Evidenced-Based Reading and Writing 480	Not Required	530
ACT	19	23	19

Lone Star College TSIA2 Score Requirements for Dual Credit Placement

ASSESSMENT	ELAR	ESSAY	MATH
TSIA2	Score of 945+ or < 945 and 5 (Diagnostic)	Score of 5	Score of 950+ or 6 (ABE-M)

- Students shall notify the dual credit coordinator if there is a change in their status at the college/university.
- Credit shall not be awarded without the official presentation of the college transcript or grade report to the dual credit coordinator within ten school days of the grades being posted.

- Transportation is the responsibility of the parent and student. The district is not liable for injury occurring once the student leaves campus.
- If a student earns a D or below, the student will be dropped from the program and may no longer take dual credit courses.
- There is no guarantee of credits being transferred to other colleges or universities.
- The student may be eligible to enroll in workforce education dual credit courses in the eleventh and/or twelfth grade if the student achieves the workforce admissions standards.

Procedures for Withdrawing from Dual Credit:

- Meet with dual credit coordinator
- Complete Lone Star College drop form
- Apply for credit refund in accordance with Lone Star’s drop and withdrawal schedule

Concurrent Credit – Juniors or Seniors who meet entrance requirements of a college/university and who have approval from the MISD dual credit coordinator may take other classes at a college or university that will count for college credit but not for high school credit.

COMPARING ADVANCED PLACEMENT AND DUAL CREDIT

Knowing the differences between Advanced Placement and Dual Credit courses will assist you in planning for both high school and college courses.

Program	Dual Credit	Advanced Placement
Description	College-level courses taken to receive college and high school credit at the same time	College-level courses offered in high school designed by committees of college faculty members and AP teachers
Courses	Academic & Workforce Courses	Academic Courses
Instructor	Course taught by college faculty or college-approved high school instructors meeting the same standards and requirements of regularly employed college faculty	Course taught by high school-approved teachers meeting AP course evaluation and professional development requirements
Location	Courses may be taught in one of the three methods: <ul style="list-style-type: none"> • On MISD campus • On LSC campus • Online 	Courses are taught on the high school campus
Exam	Approved College Placement exam*	College Board exam
Cost	\$26 per credit hour students must pay fees and textbooks	Payment for College Board exam - \$97
Impact on High School GPA	Courses are weighted in the high school GPA	Courses are weighted in the high school GPA
Credit	Credit automatically applied to college transcript	Apply for credit with an advisor
Criteria to Receive College Credit	Student receives credit and a grade reflective of their class performance Academic courses that fulfill the core curriculum are guaranteed to transfer to any other public institution of higher education in Texas. However, these courses may not count toward a specific degree program or transfer to an out-of-state university. See individual colleges for their policy.	Passing score on exam, typically a 3 or higher Many institutions of higher education, including nationwide, accept credit. However, colleges dictate the minimum AP score acceptable for credit at their institution and the specific course credit awarded for the tests taken. See individual colleges for their policy.

	https://www.tccns.org/	https://apstudents.collegeboard.org/getting-credit-placement/search-policies
Transferability	Most academic courses will transfer to any public Texas college or university when a student earns a "C" or better	Acceptance of credit depends on the institution and exam grade
Academic Benefit	Earn Performance Acknowledgements on high school diploma and transcript with grade equivalent of 3.0 or higher	Earn Performance Acknowledgements on high school diploma and transcript with a score of 3 or higher on College Board advanced placement examination
Employment Benefit	Some skills applicable to work	Some skills applicable to work
<p><i>*Scores must meet Dual Credit Eligibility and/or Texas Success Initiative standards. Refer to the Lone Star College Dual Credit Placement Qualifications chart for details.</i></p>		

SCHEDULE CHANGES

Administrators select and hire teachers and create the master schedule based on the courses requested by students. After selecting required courses, students should choose electives and alternates carefully. Those decisions are binding. As a result, schedule changes within the first 5 school days are subject to availability of courses.

Schedules are determined by course selections; therefore, schedule changes will ONLY be made if:

- Senior not enrolled in a class REQUIRED for graduation
- Student scheduled for a class for which he/she already has credit
- Student is scheduled into a class for which the student does not have the prerequisite
- Student not enrolled in an application/audition course for which they were approved
- Students may request a schedule change from an advanced/AP class under the following two conditions:
 - 1) A grade of "74" or below after the first grading period
 - 2) At the conclusion of the 1st semester

**Please Note: Grade points are awarded for courses at semester. If a student moves at the end of the 1st grading period, the grade transfers to the level class and to a level grade. If a student moves at the end of the semester, the semester grade will receive the advanced grade points.*

Campus schedule changes will occur in the event of:

- Scheduling error
- Balancing of class sizes
- Needs to add a course to be a full time student/has an incomplete schedule
- Changes from any extracurricular program (within the deadline)
- IEP/504 Committee decision
- Not scheduled in elective pathway

How to handle a schedule concern:

**Please note: If your schedule reflects those courses and alternates requested on your course selection form, you should have no schedule concern.*

- Follow campus counseling department procedures.
- Until your concern is addressed, you MUST follow your current schedule

The following schedule change requests will not be approved:

- Requests for a teacher change
- Requests for a lunch change
- Requests for an elective change
- Requests to drop a course after the drop deadline
- Requests to add a course after the add deadline
- Requests to drop an advanced course after the drop deadline
- Requests for a period change

EARLY RELEASE/LATE ARRIVAL

Early release and late arrival are for seniors only. Credits, grades, attendance, and discipline are all taken into consideration. In order to have early release and/or late arrive the following criteria must be met:

- On track for graduation
 - All STAAR EOCs must be completed and passed
 - Met college and/or career readiness standards
-

IMPORTANT INFORMATION FOR SENIORS

Pass / Fail Courses

Guidelines and conditions for selecting a course to be taken on a PASS/FAIL basis: MISD shall permit a fourth year student who has reached senior status to take, during each semester, up to two courses not required for graduation credit under the student's graduation program. Grades earned as pass/fail will not count toward class rank. The following terms and conditions apply. PASS/FAIL PERMISSION FORMS are available in the Counseling Center.

The student shall:

1. Have passed all sections of their state-mandated testing requirements for graduation.
2. Be required to have written parental permission.
3. Be required to take concurrently at least four courses for traditional grades.
4. Declare pass/fail status at the time of course selection or no later than the tenth day the class meets for the semester in which the course will be taken. Once pass/fail status has been selected by the student, it cannot be changed back during that semester.
5. The student will be given a numerical grade each grading period. At the end of the semester, a grade of pass/fail will be placed on the report card. Final exemption guidelines for senior exemptions set out in the student handbook shall apply to pass/fail courses.
6. The student and parent are responsible for verifying with any college or university to which the student plans to apply that pass/fail courses will be accepted for credit.
7. In order to maintain eligibility in extracurricular activities while taking courses on a pass/fail basis, a student shall be required to make a passing grade each grading period.

Honor Graduates for cohorts 2023, 2024, 2025 and 2026

Valedictorian: The four-year graduate with the highest GPA holds the honor of valedictorian. A three-year graduate with a GPA as high as or higher than the highest four-year graduate shall be considered tied for valedictorian honors, and salutatorian status will not be affected. In order to be eligible for valedictorian, a student must be in attendance for four consecutive semesters of his/her final two school years.

Salutatorian: The four-year graduate with the second highest GPA holds the honor of salutatorian. A three-year graduate with a GPA as high as or higher than the second-highest four-year graduate but less than the valedictorian will be considered tied for salutatorian honors. In order to be eligible for salutatorian, a student must be in attendance at MISD four consecutive semesters of his/her final two school years.

State of Texas Top 10% Graduates: This group of students consists of both three-year and four-year graduates that fall among the top 10% of the graduating class at the time of official rankings. They are eligible for automatic admission to any public university in Texas, except the University of Texas based upon their sixth semester GPA and ranking. To be eligible for automatic admission, a student must:

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

State supported colleges and universities may limit the number of first-time freshmen admitted under this policy if the number of first-time freshmen eligible for admission exceeds, by more than 10%, the average size of the first-time freshmen classes admitted the previous two years.

Honor Graduates:

Per board policy, for the purpose of determining honors to be conferred during graduation activities, the District shall calculate class rank at the start of the spring semester of the senior year. To be recognized as an honor graduate, a student must rank in the top ten percent of the graduating class and must have been enrolled in the District high school for his or her entire last two semesters of high school. The semester average shall earn grade points according to the District's weighted grade point scale. GPAs shall be rounded to the fourth decimal place, and final GPAs for graduates shall be calculated at the start of the spring semester of the senior year.

For the purpose of applications to institutions of higher education, the District shall also calculate class ranking as required by state law. The District's eligibility criteria for local graduation honors shall apply only for local recognitions and shall not restrict class ranking for the purpose of automatic admission under state law. [See EIC(LEGAL)]

Texas Public University / College Automatic Admission

To qualify for this automatic admission, students must complete one of the following two criteria:

1. Complete the Texas Foundation High School with an Endorsement Graduation Plan.
2. Satisfy the College Readiness Standards.

College Readiness Standards			
ACT Score	SAT Score	TSIA Score	TSIA2 Score
English 18**	EBRW 480	Writing: 340 with 4 on essay***	
Reading 22	-	Reading: 351≤	ELAR 945 ≤ and essay score of at least 5 or ELAR <945 and a Diagnostic level of 5 or 6 and an essay score of at least 5
Mathematics 22	Math 530	Mathematics: 350≤	Math: 950 < or Math <950 and Diagnostic level 6
Science 23	-	-	

** Lone Star College requires a composite score of 23 on the ACT with at least a 19 in Reading/Writing and at least a 19 in Math to be exempt from taking the TSIA. Scores must be less than 5 years old and achieved in one sitting.

*** A placement score of less than 340, and an ABE Diagnostic level of at least 4, and an essay score of at least 5.

Early Graduation

A student wanting to participate in graduation exercises and receive a diploma in less than four years shall make a written application to the counselor during his/her Sophomore year. The student will receive counseling regarding early high school graduation. Early graduation students will be ranked with the graduation class according to his/her GPA as addressed in the previous section on "Class Ranking." Valedictorian, salutatorian, State of Texas Top 10% and high school Honor Graduate designations are addressed in the previous section on "Honor Graduates."

**Please Note: Students may not graduate early on the Foundation High School Plan without an endorsement unless approved by the campus committee.*

College Admission Eligibility Requirements (House Bill 3826)

Effective September 1, 2007 and thereafter, this law 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 of higher learning.

Certificate Award / 4-Year Special Service Student (Senate Bill 673)

Students receiving special education services can opt to participate in the graduation ceremony after their fourth year of high school. A certificate of attendance will be issued instead of a diploma to allow students to participate in commencement exercises with their same age peer/class cohort. The statute limits student participation to only one graduation ceremony.

COLLEGE ENROLLMENT/FINANCIAL AID/SCHOLARSHIPS

Higher education and technical skills are important for most careers in our highly complex world. Information to aid in planning for post-secondary education, universities, technical schools or military service is available through the College and Career Center. Free information on college preparation for middle and high school students, easy-to-understand descriptions of the different types of student financial aid available, insights to popular careers, plus links to every college website in Texas are available at www.CollegeforAllTexans.com. Student and parent orientations are provided during registration to address high school course selection related to post-secondary education.

Some important information to consider when planning secondary (high school) coursework and post-secondary (college and technical school) entrance is listed below:

1. Traditionally students ranked in the top 6%-10% of their graduating class are eligible for automatic admission to most public universities in Texas. Specific requirements are addressed in the previous section on "Honor Graduates."
2. Colleges and universities have course entrance requirements that may be above those required for graduation from high school. Some colleges and universities in Texas now require students to graduate under the FHSP with Endorsement as an admission requirement.
3. SAT or ACT college entrance examinations are required for admission to four-year colleges and universities. Consult college catalogs and/or websites to determine which test to take and deadlines. Registration forms and prep materials are available in the Counseling Center, the MISD Advanced Academics website, or on the SAT/ACT websites. It is the student's responsibility to determine testing dates and registration deadlines, register for the test and pay any registration or related fees for the test. Students should take these exam(s) before January if they intend to apply for financial assistance. For information on SAT registration and deadlines, visit the College Board website at www.collegeboard.org. For information on accommodations, visit the College Board website at www.collegeboard.org/students-with-disabilities. For information on ACT registration and deadlines, visit the ACT website at www.act.org.

Students are encouraged to select their college early in their high school career. Once accepted by a college, students are generally notified of summer orientation programs. Students are encouraged to attend these orientations. Students attending Texas public colleges and universities can use the Apply Texas Application, which is available online at www.applytexas.org. Current information on specific college/university entrance applications and entrance requirements should be requested from the college or university. All students should fill out the FAFSA (Free Application for Federal Student Aid) during their senior year which is available online at <https://fafsa.ed.gov>. This must be on file in the financial aid office of the college or university you plan to attend to determine if you are eligible for state, federal or institution financial aid in the form of grants, scholarships and/or loans. Scholarship information is posted on the high school website. Parents are encouraged to contact their employers regarding scholarships they may offer to children of their employees.

Each student must do one of the following in order to graduate:

- complete and submit a free application for federal student aid (FAFSA)
 - complete and submit a Texas application for state financial aid (TASFA)
 - submit a signed opt-out form
-

FINANCIAL AID WAIVER

Financial Aid Application Opt-Out Form	
Financial aid applications inform postsecondary institutions' decisions about student eligibility for federal, state, and institutional funds. Financial aid awards can help students pay for their educational expenses after high school.	
Each high school senior in a Texas public school district or open enrollment charter school must complete and submit a Free Application for Federal Student Aid (FAFSA) or a Texas Application for State Financial Aid (TASFA) as a state requirement for graduation. Texas Education Code §28.0256 allows a student to opt out of the financial aid application graduation requirement by submitting a signed form that authorizes the student to decline.	
To authorize a student to opt out of the financial aid application graduation requirement, the Financial Aid Application Opt-Out Form must be signed by <u>one</u> of the following:	
OPTION I: A student age 18 years or older or emancipated minor under Chapter 31, Texas Family Code	
OPTION II: The student's parent or guardian and the student	
OPTION III: A school counselor, for good cause as determined by the school counselor, and the student	
<i>Students under 18 years of age may only be authorized to decline under OPTION II or OPTION III.</i>	
Student Printed Name:	Date of Birth:
District/Charter School:	Campus:

Submitting a Financial Aid Application Opt-Out Form does not prohibit a student from completing and submitting a financial aid application at any time in the future.

OPTION I: STUDENT AUTHORIZATION	
My signature below certifies that I am 18 years of age or older or an emancipated minor and am authorized to decline to complete and submit a financial aid application on my own behalf.	
Student Signature:	Date:
OPTION II: PARENT AUTHORIZATION	
My signature below authorizes my child to decline to complete and submit a financial aid application.	
Parent/Legal Guardian Signature:	Date:
Parent/Legal Guardian Printed Name:	
I am under the age of 18 and with my parent's authorization, I decline to complete and submit a financial aid application.	
Student Signature:	Date:
OPTION III: COUNSELOR AUTHORIZATION	
My signature below certifies that reasonable efforts to fulfill obligations to the student have been made, but for good cause I have authorized the student to decline to complete and submit a financial aid application.	
School Counselor Signature:	Date:
School Counselor Printed Name:	
I am under the age of 18 and with my counselor's authorization, I decline to complete and submit a financial aid application.	
Student Signature:	Date:

GRADE POINT SYSTEM

Note: The following provisions shall apply to students in the graduating class of 2022, 2023, 2024, and 2025.

Class ranking is determined by the student's GPA. The GPA is calculated by averaging semester grades earned in all high school credit courses taken in grades 9-12. The calculation of class rank and GPA excludes grades earned in or by: summer school; credit by examination, with or without prior instruction; night school; pass/fail courses; distance learning; student aide credits; and grades earned prior to grade 9 for high school credits.

MISD GRADE POINT SYSTEM					
GRADE	LEVEL [†]	ADVANCED [‡]	AP / DC [§]	LONE STAR/DUAL CREDIT	
100	4.0	4.5	5.0	A	4.5
99	3.9	4.4	4.9		
98	3.8	4.3	4.8		
97	3.7	4.2	4.7		
96	3.6	4.1	4.6		
95	3.5	4.0	4.5		
94	3.4	3.9	4.4		
93	3.3	3.8	4.3		
92	3.2	3.7	4.2		
91	3.1	3.6	4.1		
90	3.0	3.5	4.0	B	3.5
89	2.9	3.4	3.9		
88	2.8	3.3	3.8		
87	2.7	3.2	3.7		
86	2.6	3.1	3.6		
85	2.5	3.0	3.5		
84	2.4	2.9	3.4		
83	2.3	2.8	3.3		
82	2.2	2.7	3.2		
81	2.1	2.6	3.1		
80	2.0	2.5	3.0	C	2.7
79	1.9	2.4	2.9		
78	1.8	2.3	2.8		
77	1.7	2.2	2.7		
76	1.6	2.1	2.6		
75	1.5	2.0	2.5		
74	1.4	1.9	2.4		
73	1.3	1.8	2.3		
72	1.2	1.7	2.2		
71	1.1	1.6	2.1		
70	1.05	1.55	2.05		
<70	0.0	0.0	0.0		

[†] **Level Courses:** All eligible courses not considered Dual Credit, Advanced Placement, Advanced or Modified in content shall be categorized and weighted as Level Courses.

[‡] **Advanced Courses:** Eligible courses locally designated as advanced courses in the course selection guide shall be categorized and weighted as Advanced Courses.

[§] **Advanced Placement/Dual Credit:** All College Board recognized Advanced Placement and Dual Credit courses shall be categorized and weighted as Advanced Placement/Dual Credit.

GRADE POINT SYSTEM

Note: The following provisions shall apply to students beginning with the graduating class of 2026.

The District shall include in the calculation of class rank semester grades earned in high school credit courses taken in grades 9–12 only, unless excluded below. The calculation of class rank shall exclude grades earned in summer school, any course for which credit is earned outside the regular school day or regular school year, any course for which a pass/fail grade is assigned, any distance learning course, any local credit course, any course for which a pass/fail grade is assigned, or through credit by examination, with or without prior instruction.

The District shall categorize and weight eligible courses as dual credit/Advanced Placement (AP), advanced, and level content in accordance with provisions of this policy and designated in appropriate District publications. Eligible Advanced Placement (AP) and dual credit courses designated in the course selection guide shall be categorized and weighted as dual credit/AP courses. Eligible advanced courses designated in the course selection guide shall be categorized and weighted as advanced courses. All eligible courses that are not AP, dual credit, or advanced shall be designated as level courses.

The District shall convert semester grades earned in eligible courses to grade points in accordance with the following chart and shall calculate a weighted grade point average (GPA):

Grade Range	Letter Grade	AP/Dual Credit	Advanced	On-Level
90-100	A	6	5	4
80-89	B	5	4	3
70-79	C	4	3	2
Below 70	F	0	0	0

Grade Equivalent And Conversion Scale

TRANSFER GPA/CREDIT POLICY:

MISD accepts all grades and credits (including summer school, CBE and correspondence courses) required for graduation earned at any accredited public school within Texas.

Advanced, Advanced Placement (AP) and Dual Credit grade points will only be given for those advanced, AP and Dual Credit courses offered to MISD students. If the course isn't offered in MISD, the AAR will indicate the course as advanced, AP or Dual Credit, and it will carry level grade points.

Transcripts and coursework for students transferring from non-accredited schools (including home schooling) will be evaluated to verify if the content of courses for which the student has received instruction and/or earned credit meets the criteria approved by the SBOE for Grades 9 through 12 relating to TEKS. The campus principal or designee will determine if additional verification of course content mastery is necessary in order to award credit.

GRADES FROM OTHER SCHOOLS WILL BE CONVERTED TO THE MISD GRADING SCALE AS STATED IN THE FOLLOWING POLICY:

- If transfer grades from other schools are reported in letter grades or percentages with no conversion scale provided, grades will be converted to the state and MISD grade conversion scale as follows:
A+ = 99 B+ = 89 C+ = 79 D+ = 74 F = 69
A = 95 B = 85 C = 77 D = 72
A- = 92 B- = 82 C- = 75 D- = 70
- Numerical grades and award of credit will be accepted from other districts as they are printed on their official transcript. Transcripts must indicate Advanced/AP status to receive corresponding GPA weight. For numerical grades from districts where the passing standard is less than 70, a designation of "P" will be used to award credit. However, grade points will not be assigned. Numerical grades, which are not passing in the sending school, will not receive credit or grade points in high school for those courses.

- If transfer grades from other schools are reported in letter grades or percentages, MISD will honor the conversion scale printed on the official transcript or provided in writing from an official of the sending school.
- If a student's transcript reflects a grading scale different from the circumstances stated above, every effort will be made to convert the grades as closely as possible to the MISD grading scale.

HIGH SCHOOL GRADES, FOR NCAA ELIGIBILITY CONSIDERATION, EQUATE TO THE FOLLOWING:

100-90	A (4.0 quality points)
89-80	B (3.0 quality points)
79-70	C (2.0 quality points)
69 or below	F (0 quality points)

ACADEMIC LETTER

An Academic Letter is awarded to students that have maintained a 3.5 GPA for four semesters. **The four semesters do not have to be consecutive.** Students that meet the requirements need to sign up with the registrar. Academic Letters are awarded in the spring.

CLASS RANKING

Senior Rankings are released each year in September, February and June. Final senior graduation rankings will be calculated after the Fall Semester of their senior year. The three-year graduate will be ranked with the graduating class according to his/her GPA.

Junior, Sophomore and Freshman rankings are released in February and June each year.

Students who have not completed attendance requirements by the date class ranks are computed will be ranked as credit attempted but no credit received. The class rank **will not** be recalculated at the time the credit is earned, but at the next scheduled time for the appropriate grade level.

NCAA FRESHMAN-ELIGIBILITY STANDARDS

Division I academic eligibility

To be eligible to compete in NCAA sports during your first year at a Division I school, you must graduate high school and meet ALL the following requirements:

1. Complete 16 core courses:
 - Four years of English
 - Three years of math (Algebra 1 or higher)
 - Two years of natural/physical science (including one year of lab science if your high school offers it)
 - One additional year of English, math or natural/physical science
 - Two years of social science
 - Four additional years of English, math, natural/physical science, social science, foreign language, comparative religion or philosophy
 - Complete 10 core courses, including seven in English, math or natural/physical science, before your seventh semester. Once you begin your seventh semester, you may not repeat or replace any of those 10 courses to improve your core-course GPA
2. Earn at least a 2.3 GPA in your core courses.
3. Earn an SAT combined score or ACT sum score matching your core-course GPA on the Division I sliding scale, which balances your test score and core-course GPA. If you have a low test score, you need a higher core-course GPA to be eligible. If you have a low core-course GPA, you need a higher test score to be eligible.

Division II Academic Eligibility *If you enroll BEFORE August 1, 2018*

To be eligible to compete in NCAA sports during your first year at a Division II school, you must meet academic requirements for your core courses, grade-point average (GPA) and test scores. You must graduate high school and meet ALL the following requirements:

1. Complete 16 core courses:
 - Three years of English.

- Two years of math (Algebra 1 or higher).
 - Two years of natural or physical science (including one year of lab science if your high school offers it).
 - Three additional years of English, math or natural or physical science
 - Two years of social science
 - Four additional years of English, math, natural or physical science, social science, foreign language, comparative religion or philosophy
2. Earn at least a 2.0 GPA in your core courses.
 3. Earn a SAT combined score of 820 or an ACT sum score of 68. Remember, if you took the SAT on or after March 2016 you need to compare your score on the College Board concordance table. The 820 score is after the concordance table is applied.

Division II Academic Eligibility *If you enroll AFTER August 1, 2018*

To be eligible to compete in NCAA sports during your first year at a Division II school, you must meet academic requirements for your core courses, grade-point average (GPA) and test scores. You must graduate high school and meet ALL the following requirements:

1. Complete 16 core courses:
 - Three years of English.
 - Two years of math (Algebra 1 or higher).
 - Two years of natural or physical science (including one year of lab science if your high school offers it).
 - Three additional years of English, math or natural or physical science
 - Two years of social science
 - Four additional years of English, math, natural or physical science, social science, foreign language, comparative religion or philosophy
2. Earn at least a 2.2 GPA in your core courses.
3. Earn an SAT combined score or ACT sum score matching your core-course GPA on the Division II sliding scale, which balances your test score and core-course GPA. If you have a low test score, you need a higher core-course GPA to be eligible. If you have a low core-course GPA, you need a higher test score to be eligible.

**Student athletes must be aware that the NCAA does not recognize the credits earned through Credit by Exam.*

For the latest information, on NCAA requirements and eligibility visit:

The NCAA Future Student Athlete page - <http://www.ncaa.org/student-athletes/future>

The NCAA Eligibility Center page - <http://www.eligibilitycenter.org>

Section II:
Course Catalog

READING LANGUAGE ARTS

0511	English I	9-12
0521	English II	10-12
0531	English III	11-12
0541	English IV	12

English courses explore the interconnected nature of listening, speaking, reading, writing, and thinking through the seven integrated strands of developing and sustaining foundational language skills; comprehension; response; multiple genres; author's purpose and craft; composition; and inquiry and research. Students will develop knowledge and skills with increased complexity and nuance in order to think critically and adapt to the ever-evolving nature of language and literacy. Our curriculum includes the four domains of language (listening, speaking, reading, and writing) and their application in order to accelerate the acquisition of language skills so that students develop high levels of social and academic language proficiency. Students will engage in academic conversations, write, read, with opportunities for cross-curricular content and student choice. As skills and knowledge are obtained in each of the seven strands, students will continue to apply previous knowledge with greater depth to increasingly complex texts in multiple genres as they become self-directed, critical learners who work collaboratively while continuously using metacognitive skills. ENG III offers a study of American Literature. ENG IV offers a study of British Literature.

Prerequisites - Courses to be taken sequentially

Term: Year **Credit:** 1.0 English State Credit

0512	Advanced English I	9
0522	Advanced English II	10

Advanced English courses explore the interconnected nature of listening, speaking, reading, writing, and thinking through the seven integrated strands of developing and sustaining foundational language skills; comprehension; response; multiple genres; author's purpose and craft; composition; and inquiry and research in greater depth and rigor. Advanced English courses are designed to help prepare students to be successful in AP English and Dual Credit English courses. Students must be prepared to devote considerable hours to independent readings and outside projects.

Prerequisites - See Advanced Criteria

Term: Year **Credit:** 1.0 English State Credit

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses. Purchase of novels may be required.

0532	AP Language and Composition	11
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The AP English Language and Composition course focuses on the development and revision of evidence-based analytic and argumentative writing, the rhetorical analysis of nonfiction texts, and the decisions writers make as they compose and revise. Students evaluate, synthesize, and cite research to support their arguments. Additionally, they read and analyze rhetorical elements and their effects in nonfiction texts—including images as forms of text—from a range of disciplines and historical periods.

Prerequisites - English II

Term: Year **Credit:** 1.0 English State Credit

This course receives AP/DC weighting in the GPA. See AP criteria.

0533	Dual Credit English III (Eng 1301/1302 for Juniors)	11
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First semester, students receive credit for ENGL 1301 at LSCS. Intensive study and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis. Second semester, students receive credit for ENGL 1302 at LSCS. 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.

Prerequisites - Passing Entrance Tests Scores As Determined By Lone Star College/Eng II

Term: Year **Credit:** 1.0 English State Credit

This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria. Students must pass both ENGL 1301 & 1302 to be awarded English III or English IV state credit.

0547	College Readiness English IV	12
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College Readiness English IV is an overlay course taken in conjunction with ENG IV. This course is made up of 2 stages. Stage 1 is composed of the foundational material for success in entry-level English college courses including introduction to college reading and writing, identifying main ideas, discovering implied meaning, interpreting bias, and analysis through definition. All students are required to reach the target score of 90 in stage 1, after which they will need to achieve a passing grade on the required essay. Stage 2 is composed of the remaining English skills that put students on a solid foundation for matriculation to Texas post-secondary institutions including learning across disciplines, exploring comparative elements, informed opinions through causal chains, applied critical analysis, and using sources in critical reading and writing. All students are required to reach the target score of 90 in stage 2.

This course is available for students in Grade 12.

Prerequisites: ENG I, ENG II, ENG III, and does not display college readiness

Term: Year

Credit: 1.0 English State Credit and 1.0 College Readiness Credit

Students who complete both Stages, and achieve a passing grade on the required essay, are eligible for an exemption from developmental education courses in accordance with Texas Education Code §51.338(e)(f) for freshman-level reading/writing met courses at Texas Institutions of Higher Education who partnered with the school district or who signed the Texas College Bridge memorandum of understanding.

0542 **AP Literature and Composition** 12

The AP English Literature and Composition course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, and symbolism. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works.

Prerequisites - English III

Term: Year **Credit:** 1.0 English State Credit

This course receives AP/DC weighting in the GPA. See AP criteria.

College Readiness English

0534 **(Dual Credit Integrated Reading and Writing II)** 12

This is a combined lecture/lab, performance-based course designed to develop students' critical reading and academic writing skills for college English courses. The course integrates preparation in basic academic reading skills with basic skills in writing a variety of academic essays. The course fulfills TSA requirements for reading and writing. This course carries institutional credit but will not transfer and may not be used to meet degree requirements - ENGL 0309. This course prepares students for Dual Credit ENGL 1301.

Prerequisites - English III

Term: Year **Credit:** 1.0 English State Credit

This course does NOT receive advanced weighting in the GPA. This course can only be taken as a 4th English credit.

0543 **Dual Credit English IV (Eng 1301/1302 for Seniors)** 12

See course description for Dual Credit English III (Eng 1301/1302 for Juniors).

Prerequisites - Passing Entrance Tests Scores As Determined By Lone Star College/English III

Term: Year **Credit:** 1.0 English State Credit

This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

0544 **Dual Credit English IV (Eng 2332/2311)** 12

First semester, students receive credit for ENGL 2332 at LSCS. A survey of the development of British literature from the Anglo-Saxon period to the Eighteenth Century. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions. Second semester, students receive credit for ENGL 2311 at LSCS. 2311-Intensive study of and practice in professional settings. Focus on the types of documents necessary to make decisions and take action on the job, such as proposals, reports, instructions, policies and procedures, e-mail messages, letters, and descriptions of products and services. Practice individual and collaborative processes involved in the creation of ethical and efficient documents.

Prerequisites - Dual Credit English III (Eng 1301/1302 for Juniors), Passing Entrance Tests Scores As Determined By Lone Star College/English III

Term: Year **Credit:** 1.0 English State Credit

This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

This course can only be taken as a 4th English credit.

0545 **Film as Literature** 12

This course emphasizes film as literature with a focus on film history, techniques, and genres. Using film as text, students explore the relationships in visual media among concept, theme, structure, and style. Focusing on film as an intellectual and visual puzzle to be discovered like a book or short story, students are encouraged to develop analytical skills and refine their critical abilities through the viewing of modern and classic films. Students can expect required readings, writing, discussions, and multimedia projects.

Prerequisites - English I, English II, English III

Term: Year **Credit:** 1.0 English State Credit

This course can only be taken as a 4th English credit.

0554 **Creative Writing** 12

This course will provide a writing workshop for those students interested in the creative aspect of writing. The student will analyze various literary works in different genres. Original works will be produced by the student in the form of short stories, plays, poems, and various non-fiction pieces. Opportunities will be offered to students who wish to have their work published.

Prerequisites - English I, English II, English III

Term: Year **Credit:** 1.0 English State Credit

This course can only be taken as a 4th English credit.

0555 **The Bible as Literature** 12

Students enrolled in this course will focus on a specialized area of study such as the work of a particular author or genre. Students will read and write in multiple forms for a variety of audiences and purposes. High school students are expected to plan, draft, and complete written compositions on a regular basis and carefully examine their papers for clarity, engaging language, and the correct use of the conventions and mechanics of written English.

Prerequisites - English I, English II, English III

Term: Year **Credit:** 1.0 English State Credit

This course can only be taken as a 4th English credit.

	English I For Speakers of Other Languages	
0551	English I For Speakers of Other Languages	9-12
0552	English II For Speakers of Other Languages	9-12

This course is designed for students who have a primary language other than English. This course may take the place of regular English I.

Prerequisites - LPAC Decision

Term: Year **Credit:** 1.0 English State Credit

0571	Debate I	9-12
0572	Advanced Debate II	10-12

This is a competition course. Students are required to participate on the debate team which includes after school practices and tournaments. The course is research and speaking intensive, and as a paperless course, students MUST have access to a laptop computer. Students are given opportunities to compete in multiple styles of debate and speaking events. The student is responsible for required fees for this course.

Prerequisites - None

Term: Year **Credit:** 1.0 State Elective Credit

Expected cost to student for this course: \$250.

0573	Advanced Debate III	11-12
0574	Independent Study In Speech / Debate IV	12

Advanced

This course continues to refine students' skills in debate. As in all advanced classes, content is differentiated, and students are expected to work more independently. There is required participation in tournament competition. The student is responsible for required fees for this course.

Prerequisites - Debate III

Term: Year **Credit:** 1.0 State Elective Credit or English State Credit

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses. Students may not self-elect out of this course during the school year as no equivalent level course is available. This course may be taken as a 4th English credit. Expected cost to student for this course: \$250.

0580	Journalism	9-12
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This course provides an introduction to the study of mass print media. It includes studying the history of journalism, the first amendment, and journalistic laws and ethics. Students will study the basic features of journalistic writing with an emphasis on effective writing skills for news, features, editorials and sports. In addition, computer skills must be applied for implementation of assignments.

Prerequisites - None

Term: Year **Credit:** 1.0 State Elective Credit

0581	Yearbook I	10-12
0582	Yearbook II	11-12
0583	Yearbook III	12

This course involves an accelerated exposure to journalistic practices with an emphasis on writing feature stories and doing layouts for the yearbook. Students will learn and use desktop publishing skills to publish the yearbook and should like to write. Selling advertising and creating ads are required. This also requires outside class time.

Prerequisites - Courses to be taken sequentially with admissions committee approval

Term: Year **Credit:** 1.0 State Elective Credit

0584	Independent Study / Yearbook	12
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This course involves editor duties associated with the school yearbook along with individual projects assigned by the teacher.

Prerequisites - 2 Years of Yearbook/Admissions Committee Approval

Term: Year **Credit:** 1.0 State Elective Credit

This course may be taken as a 4th English credit.

0591	Newspaper I	10-12
0592	Newspaper II	11-12
0593	Newspaper III	12

This course is a comprehensive study of journalism designed to cover all aspects of the subject in preparation for work on the school newspaper. It includes: study of mass media in society, journalism history, understanding of First Amendment and exposure to journalistic ethics. Students will learn principles of interviewing, writing (news, features, sports, editorials and columns), headline writing, editing, layout, advertising and circulation. Students write publishable stories for the school newspaper.

Newspaper II & III involve the production of the school newspaper. Staff will organize, sell and design advertising while also writing, editing, and producing the layout of the school newspaper. Selling advertising and creating ads are required. These courses require work after school. Students are expected to cover extracurricular activities from time to time for the newspaper.

Prerequisites - Courses to be taken sequentially with admissions committee approval

Term: Year **Credit:** 1.0 State Elective Credit

0594	Independent Study / Newspaper	12
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This course involves editor duties associated with the school newspaper along with individual projects assigned by the teacher.

Prerequisites - Newspaper I/Admissions Committee Approval

Term: Year **Credit:** 1.0 State Elective Credit

This course may be taken as a 4th English credit.

0611	Photojournalism I	10-12
0612	Photojournalism II	11-12
0613	Photojournalism III	12

This course involves students learning to plan, interpret, and critique visual images. Students will study the laws and ethical considerations that impact photography. They will learn to create, clarify, and produce effective visual images. Students are required to have a digital camera for the class.

Prerequisites - None

Term: Year **Credit:** 1.0 State Elective Credit

0621	Reading I	9-12
0622	Reading II	9-12
0623	Reading III	9-12
0624	Reading IV	9-12

This class offers instruction in word recognition, comprehension strategies, and vocabulary to ensure that students have an opportunity to read and write

with competence, confidence, and understanding.

Prerequisites - Admissions Committee Approval.

Term: Year **Credit:** 1.0 State Elective Credit

XXXX **Dual Credit Introduction to Communications** 10-12

Introduces basic human communication principles and theories embedded in a variety of contexts including interpersonal, small group, and public speaking. -SPCH 1311

Online Course offered through Lone Star College.

Prerequisites - Passing Entrance Tests Scores As Determined By Lone Star College

Term: Semester **Credit:** 0.5 State Elective Credit

This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

This course may be taken as a 4th English credit.

XXXX **Dual Credit Public Speaking** 10-12

Application of communication theory and practice to the public speaking context, with emphasis on audience analysis, speaker delivery, ethics of communication, cultural diversity, and speech organizational techniques to develop students' speaking abilities. -SPCH 1315

Online Course offered through Lone Star College.

Prerequisites - Passing Entrance Tests Scores As Determined By Lone Star College

Term: Semester **Credit:** 0.5 State Elective Credit

This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

XXXX **Dual Credit Business and Professional Communication** 10-12

Study and application of communication within the business and professional context. Special emphasis will be given to communication competencies in presentations, dyads, teams, and technologically mediated formats. - SPCH 1321

Online Course offered through Lone Star College.

Prerequisites - Passing Entrance Tests Scores As Determined By Lone Star College

Term: Semester **Credit:** 0.5 State Elective Credit

This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

This course may be taken as a 4th English credit.

MATHEMATICS

1011 Algebra I

9-12

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.

Prerequisites - None

Term: Year **Credit:** 1.0 Math State Credit

1012 Advanced Algebra I

9-12

A course designed for students showing an advanced aptitude and superior math skills. In addition to the strands listed for Algebra I, this advanced course is designed to prepare students for entry into AP mathematics courses. The course goes beyond the on-level Algebra I content with a wider range and greater depth of subject matter. The content assessments require students to synthesize their learning and apply it on a much higher level.

Prerequisites - Suggested grade of 92 or higher in 8th grade math

Term: Year **Credit:** 1.0 Math State Credit

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

1021 Geometry

9-12

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.

Prerequisites - Algebra I

Term: Year **Credit:** 1.0 Math State Credit

1022 Advanced Geometry

9-10

A course designed for students showing an advanced aptitude and superior math skills. In addition to the strands listed for Geometry, this advanced course is designed to prepare students for entry into AP mathematics courses. The course goes beyond the on-level Geometry content with a wider range and greater depth of subject matter. The content assessments require students to synthesize their learning and apply it on a much higher level.

Prerequisites - Algebra I / Suggested grade of 85 or higher in 8th grade Algebra I or Advanced Algebra I OR 95 or higher in on-level Algebra I

Term: Year **Credit:** 1.0 Math State Credit

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

Year **Credit:** 1.0 Math State Credit

1041 Algebra II

10-12

Students broaden their knowledge of quadratic functions, exponential functions and systems of equations. They study logarithmic, square root, cubic, cube root, absolute value, rational functions and their related equations. Students connect functions to their inverses and to their associated equations and solutions in both mathematical and real world situations. In addition, students extend their knowledge of data analysis and numeric and algebraic methods.

Prerequisites - Algebra I and Geometry (or concurrently enrolled)

Term: Year **Credit:** 1.0 Math State Credit

1042 Advanced Algebra II

10-12

A course designed for students showing an advanced aptitude and superior math skills. In addition to the strands listed for Algebra II, this advanced course is designed to prepare students for entry into AP mathematics courses. The course goes beyond the on-level Algebra II content with a wider range and greater depth of subject matter. The content assessments require students to synthesize their learning and apply it on a much higher level. This course is recommended for students with a grade of 85 or higher in Advanced Geometry, or 95 or higher in on-level Geometry.

Prerequisites - Algebra I, Geometry (or concurrently enrolled) or Advanced Geometry/Suggested grade of 85 or higher in 8th grade Algebra I or Advanced Algebra I, or 95 or higher in on-level Algebra I

Term: Year **Credit:** 1.0 Math State Credit

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

1032 Algebraic Reasoning

11-12

Students continue with development of mathematical reasoning related to algebraic understanding and processes, and deepen a foundation for studies in subsequent mathematics courses. Students will broaden their knowledge of functions and relationships, including linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value, and logarithmic functions. Students will study these functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build workforce and college readiness such as probes, measurement tools, and software tools, including spreadsheets. This course provides a path for students to succeed in Algebra II and prepares them for various post-secondary choices.

Prerequisites - Algebra I and Geometry

Term: Year **Credit:** 1.0 Math State Credit

1035 Financial Mathematics

11-12

This is a course about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors.

Prerequisites - Algebra 1 and Geometry

Term: Year **Credit:** 1.0 State Math Credit or State Elective credit

1031 Math Models with Applications (MMA)

11-12

Students learn to apply mathematics through experiences in personal finance, science, engineering, fine arts, and social sciences. Students use algebraic, graphical, and geometric reasoning to recognize patterns and structure, model information, solve problems, and communicate solutions. Students will select from tools such as physical objects; manipulatives; technology, including graphing calculators, data collection devices, and computers; and paper and pencil and from methods such as algebraic techniques, geometric reasoning, patterns, and mental math to solve problems.

Prerequisites – Algebra 1, Geometry

Term: Year **Credit:** 1.0 Math State Credit

1061 Precalculus

11-12

The study of Pre-Calculus deepens students' mathematical understanding and fluency with algebra and trigonometry and extends their ability to make connections and apply concepts and procedures at higher levels. Students investigate and explore mathematical ideas, develop multiple strategies for analyzing complex situations, and use technology to build understanding, make connections between representations, and provide support in solving problems. The course approaches topics from a function point of view, where appropriate, and is designed to strengthen and enhance conceptual understanding and mathematical reasoning used when modeling and solving mathematical and real-world problems.

Prerequisites - Algebra I, Geometry, Algebra II / Suggested grade of 80 or higher in Algebra II

Term: Year **Credit:** 1.0 Math State Credit

1062 Advanced Precalculus

11-12

This course offers preparation for AP Calculus. This course is designed for students showing an advanced aptitude and superior math skills. In addition to the strands listed for Pre-Calculus, this advanced course is designed to prepare students for entry into AP mathematics courses. The course goes beyond the on-level Pre-Calculus content with a wider range and greater depth of subject matter. Emphasis is placed on critical thinking skills that require considerable mathematical insight. The content assessments require students to synthesize their learning and apply it on a much higher level. This course is intended for highly motivated, self-disciplined students.

Prerequisites - Algebra II / Suggested grade of 85 or higher in Advanced Algebra II OR 95 or higher in Algebra II

Term: Year **Credit:** 1.0 Math State Credit

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

XXXX AP Precalculus

11-12

In AP Precalculus, students explore everyday situations and phenomena using mathematical tools and lenses. Through regular practice, students build deep mastery of modeling and functions, and they examine scenarios through multiple representations. They will learn how to observe, explore, and build mathematical meaning from dynamic systems, an important practice for thriving in an ever-changing world. AP Precalculus prepares students for other college-level mathematics and science courses.

Prerequisites - Algebra I, Geometry, Algebra II or Concurrent Enrollment in Geometry or Algebra II

Term: Year **Credit:** 1.0 Math State Credit

This course receives AP/DC weighting in the GPA. See AP criteria.

1063 AP Calculus AB

12

AP Calculus AB focuses on students' understanding of calculus concepts and provides experience with methods and applications. Through the use of big ideas of calculus (e.g., modeling change, approximation and limits, and analysis of functions), this course becomes a cohesive whole, rather than a collection of unrelated topics. AP Calculus AB requires students to use definitions and theorems to build arguments and justify conclusions. The courses feature a multi representational approach to calculus, with concepts, results, and problems expressed graphically, numerically, analytically, and verbally. Exploring connections among these representations builds understanding of how calculus applies limits to develop important ideas, definitions, formulas, and theorems. A sustained emphasis on clear communication of methods, reasoning, justifications, and conclusions is essential.

Prerequisites - Precalculus / Suggested grade of 85 or higher in Advanced Precalculus or AP Precalculus

Term: Year **Credit:** 1.0 Math State Credit

This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. See AP criteria.

1071 AP Statistics

11-12

The AP Statistics course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes evident in the content, skills, and assessment in the AP Statistics course: exploring data, sampling and experimentation, probability and simulation, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.

Prerequisites - Algebra II / Suggested grade of 80 or higher in Advanced Algebra II OR 90 or higher in Algebra II

Term: Year **Credit:** 1.0 Math State Credit

This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. See AP criteria.

1100 College Readiness Mathematics

12

This course provides foundation work in the area of mathematics for the student who intends to advance to college-level work. Stage 1 of this course teaches basic math skills and beginning algebra/statistics topics including whole numbers, fractions, decimals, percent/ratio/rates and

statistical graphs & tables. Stage 2 is composed of intermediate algebra skills that include solving equations/inequalities, exponents & polynomials, systems of equations, radical expressions and quadratic equations. Successful completion of College Readiness Mathematics' digital component provides students with a TSIA exemption for up to two years after graduation from more than 40 partnering colleges and universities across the state. Students must complete 100% of the digital component at 90% mastery to receive the TSIA exemption. Students will receive a state math credit for the class with an overall average of 70 or above at the end of the term.

Prerequisites - Alg 1, Geometry, a third math class and does not display college readiness

Term: Year **Credit:** 1.0 Math State Credit

This course does NOT receive advanced weighting in the GPA.

1101 Dual Credit College Algebra 11-12

In-depth study and applications of polynomial, rational, radical, absolute value, piecewise- defined, exponential and logarithmic functions, equations, inequalities, graphing skills and systems of equations using matrices. Additional topics such as sequences, series, probability, conics, and inverses may be included. -MATH 1314.

Prerequisites - Algebra II / Passing Entrance Tests Scores As Determined By Lone Star College

Term: Semester **Credit:** 0.5 Math State Credit

This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

1102 Dual Credit Math for Business and Social Science 11-12

Applications of common algebraic functions, including polynomial, exponential, logarithmic, and rational, to problems in business, economics, and the social sciences are addressed. The applications include mathematics of finance, including simple and compound interest and annuities; systems of linear equations; matrices; linear programming; and probability, including expected value. -MATH 1324.

Prerequisites - Algebra II / Passing Entrance Tests Scores As Determined By Lone Star College

Term: Semester **Credit:** 0.5 Math State Credit

This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

1103 Dual Credit Statistics 11-12

Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended. -MATH 1342.

Prerequisites - Algebra II / Passing Entrance Tests Scores As Determined By Lone Star College

Term: Semester **Credit:** 0.5 Math State Credit

This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

1104 Dual Credit Calculus for Business and Social Science 11-12

This course is the basic study of limits and continuity, differentiation, optimization and graphing, and integration of elementary functions, with emphasis on applications in business, economics, and social sciences. This course is not a substitute for MATH 2413, Calculus I. -MATH 1325.

Prerequisites - Algebra II / Passing Entrance Tests Scores As Determined By Lone Star College

Term: Semester **Credit:** 0.5 Math State Credit

This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

5804 PLTW - Digital Electronics 10-12

The study of electronic circuits that are used to process and control digital signals as opposed to analog signals that are varying. This distinction allows for greater signal speed and storage capabilities and has revolutionized the world of electronics. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras, high definition televisions, etc. The major focus of the DE course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation.

Prerequisites - PLTW - Introduction To Engineering Design, Score of 4+ on IED or CSP End of Course Exam

Term: Year **Credit:** 1.0 State Elective Credit or Math State Credit

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses. Beginning with the graduating class of 2026 this course will no longer receive advanced weighting in the GPA.

SCIENCE

1521 Biology

9-12

Biology is a lab-oriented course involving the study of living systems and their interrelationships. Topics include the study of structure and functions of living organisms, energy transformation, comparative survey of life processes, diversity of life, and the interdependence of organisms and their environment. Students will expand their knowledge of scientific processes as they apply to the nature of living systems. Extensive discussions and many lab activities relating to biology concepts, terms and theories provide a foundation for understanding the living world.

Prerequisites - None

Term: Year **Credit:** 1.0 Science State Credit

1522 Advanced Biology

9-12

This course is designed to prepare students for Advanced Placement Biology. The class is lab-oriented and designed to provide an introduction to biological topics stressed in the advanced placement course. Students will learn process skills involved in scientific problem solving which will allow them to become self-starters and independent workers in the AP course. Class assignments and activities build on and expand higher-level thinking skills of analysis, synthesis, evaluation, and integrate units that promote scientific connections and connections with other disciplines. Areas stressed will be molecular biology, environmental science, and phylogeny. All laboratory exercises are designed to reinforce concepts and process skills.

Prerequisites - None

Term: Year **Credit:** 1.0 Science State Credit

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

1531 Chemistry

10-12

Chemistry includes the study of the structure, composition and behavior of matter, as well as factors that affect the interaction of matter. Laboratory investigations enhance the emphasis of process skills and laboratory safety. Topics include: characteristics of matter, use of the Periodic Table, development of atomic theory and chemical bonding, chemical stoichiometry, gas laws, solutions, thermochemistry, and nuclear chemistry. Students will investigate and apply critical thinking skills to understand how chemistry is an integral part of our daily lives. Strong Math skills recommended.

Prerequisites - Biology, Algebra I

Term: Year **Credit:** 1.0 Science State Credit

1532 Advanced Chemistry

10-12

This is a preparatory course for AP Chemistry and is designed to develop the knowledge and skills necessary to be successful in a first year college chemistry course. Topics include scientific measurement and calculations, lab skills, atomic structure, chemical formulas, equations and stoichiometry, chemical bonding, states of matter, solutions, acids and bases, and nuclear chemistry. The topics will be covered with more depth of theory and with higher mathematical expectations than level chemistry.

Laboratory skills and safety are stressed. Strong Math skills recommended.

Prerequisites - Biology

Term: Year **Credit:** 1.0 Science State Credit

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

1511 Integrated Physics and Chemistry

10

IPC integrates the disciplines of physics and chemistry in topics such as force, motion, energy and matter. Laboratory investigations are an integral part of the course. Topics of study shall include properties and relationships of matter and energy, atomic structure, chemical formulas and equations, mechanics, heat, electricity and magnetism, motion, waves, light and sound.

Prerequisites - None

Term: Year **Credit:** 1.0 Science State Credit

1541 Physics

11-12

Physics explores the interrelationship between matter and energy. This course requires a strong mathematics background because mathematics is the language used to describe abstract ideas. Topics will include motion, force, vector analysis, thermodynamics, work, and waves. Process skill acquisition and problem solving will be stressed.

Prerequisites - Biology and Algebra II or Concurrent Enrollment

Term: Year **Credit:** 1.0 Science State Credit

1551 Anatomy and Physiology

11-12

Extends understanding of the structure and function of the human body. Students will explore physiological systems and associated pathologies. Higher order thinking is stressed through assessment and synthesis of the anatomical knowledge combined with exposure to clinical analysis. Principles of physiology will be applied to human health and well-being.

Prerequisites - Biology/Chemistry or Concurrent Enrollment

Term: Year **Credit:** 1.0 Science State Credit or State Elective Credit

1561 Environmental Systems

11-12

Students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include ecosystems, biomes, and sources and flow of energy through an environmental system. Students will examine the impact of human activity on the environment, use and conservation of resources, and pollution. Careers in environmental science will also be explored.

Prerequisites - Biology/IPC or Chemistry

Term: Year **Credit:** 1.0 Science State Credit

1571 Aquatic Science

11-12

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

Prerequisites - Biology/IPC or Chemistry

Term: Year **Credit:** 1.0 Science State Credit

Expected cost to student for this course: \$25.

5514 Forensic Science

11-12

Students are introduced to the application of science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Students learn terminology and procedures related to criminal investigation, crime scene processing, crime laboratory, and courtroom presentation using evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, projectiles or weapons utilizing appropriate scientific analysis and procedures. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science.

Prerequisites - Biology and one other Science credit in IPC, Chemistry, Physics, or Anatomy & Physiology

Term: Year **Credit:** 1.0 Science State Credit or State Elective Credit

5515 Pathophysiology

11-12

Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students also study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology.

Prerequisites - Biology and Chemistry or Physics

Term: Year **Credit:** 1.0 Science State Credit or State Elective Credit

1581 Astronomy

11-12

Students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study the following topics: astronomy in civilization, patterns and objects in the sky, our place in space, the moon, reasons for the seasons, planets, the sun, stars, galaxies, cosmology, and space exploration. Students will acquire knowledge within a conceptual framework, conduct observations of the sky, work collaboratively, and develop critical-thinking skills. Field trip opportunities may be available outside the typical school day.

Prerequisites - Biology/IPC or Chemistry

Term: Year **Credit:** 1.0 Science State Credit

1523 AP Biology

11-12

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based

investigations as they explore the following topics: evolution, cellular processes, energy, communication, genetics, information transfer, ecology, and interactions. This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices.

Prerequisites - Biology, Chemistry

Term: Year **Credit:** 1.0 Science State Credit

This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. See AP criteria.

1533 AP Chemistry

11-12

The AP Chemistry course provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. This course requires that 25 percent of instructional time engages students in lab investigations. This includes a minimum of 16 hands-on labs (at least six of which are inquiry-based). It is recommended that students keep a lab notebook throughout.

Prerequisites - Biology, Chemistry/Algebra II (recommended)

Term: Year **Credit:** 1.0 Science State Credit

This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. See AP criteria.

1542 AP Physics I

11-12

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

Prerequisites - Advanced Algebra II or Concurrent Enrollment

Term: Year **Credit:** 1.0 Science State Credit

This course receives AP/DC weighting in the GPA. See AP criteria.

1543 AP Physics II

11-12

AP Physics 2 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore these topics: fluids; thermodynamics; electrical force, field, and potential; electric circuits; magnetism and electromagnetic induction; geometric and physical optics; and quantum, atomic, and nuclear physics. This course requires that twenty-five percent of instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to demonstrate foundational physics principles and apply the science practices.

Prerequisites - Physics or AP Physics 1/Precalculus or AP Precalculus

Term: Year **Credit:** 1.0 Science State Credit

This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. See AP criteria.

1562 AP Environmental Science

11-12

The AP Environmental Science course is designed to engage students with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography. It is required that students have the opportunity to spend a minimum of 25% of instructional time engaged in hands-on, inquiry-based laboratory and/or fieldwork investigations. Student is responsible for the cost of class lab fees in addition to the exam fee.

Prerequisites - Biology/Chemistry/Algebra or Concurrent Enrollment In Chemistry

Term: Year **Credit:** 1.0 Science State Credit

This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. See AP criteria. Expected cost to student for this course: \$45.

XXXX Dual Credit Biology for Science Majors

11-12

A contemporary course including applications of the scientific method, cellular and molecular biology, biochemistry, classical and human genetics, virology and mechanisms of evolution. Fall Semester-BIOL 1406 (*Biology I*) With successful completion of BIOL 1406 students will take BIOL 1407 in the Spring semester. This course is a continuation of introductory Biology I for majors. It includes a detailed survey of the major phylogenetic lineages. This includes a comparison of the systems of different organisms. Ecological roles and relationships, as well as behavior of organisms, will be integrated throughout.

Online Course offered through Lone Star College.

Prerequisites -Passing Entrance Tests Scores As Determined By Lone Star College

Term: Year **Credit:** 1.0 Science State Credit

This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. Students may not self-elect out of this course during the school year as no equivalent level course is available. See Dual Credit criteria.

XXXX Dual Credit Biology for Non-Science Majors

11-12

A conceptual approach for students not majoring in science. An introduction to the nature of science, the characteristics of life, the molecular and cellular basis of life, viruses, energetics, genetics, reproduction and development. An emphasis will be placed on how these topics are related to issues facing modern society. Fall Semester-BIOL 1408 (*Biology I*) With successful completion of BIOL 1408 students will take BIOL 1409 in the Spring semester. BIOL 1490 is for a student not majoring in the biological or health sciences is a continuation of Introductory Biology I for Nonmajors. It includes a detailed phylogenetic survey of Whittaker's five kingdoms. This includes a comparison of the systems of different organisms. Ecological roles and relationships, as well as behavior of organisms, will be integrated throughout.

Online Course offered through Lone Star College.

Prerequisites -Passing Entrance Tests Scores As Determined By Lone Star College

Term: Year **Credit:** 1.0 Science State Credit

This course receives AP/DC weighting in the GPA. v Students may not self-elect out of this course during the school year as no equivalent level course is available. See Dual Credit criteria.

5123 Advanced Animal Science

12

Develop and investigate the scientific and technological dimensions of scientific animal agriculture, genetics and reproduction on, anatomy and physiology of various livestock species, nutritional requirements, and disease and parasites of livestock. This class is recommended for those students with an interest in Veterinary Science. This class will have 40% of class time instruction to conduct field experiments and laboratory investigations.

Prerequisites - Principles of Agriculture and Small Animal Management, Equine Science, or Livestock Production

Term: Year **Credit:** 1.0 Science State Credit or State Elective Credit

This course does NOT receive advanced weighting in the GPA.

5144 Plant & Soil Science

12

Students will investigate the importance of plant and soil science and its relationship affecting the production of food and fiber industry. Students will assess the plant ecosystem, erosion processes, petroleum energy, crop production, and genetically engineered plants and their importance to solving world hunger. This class will have 40% of class time instruction to conduct field experiments and laboratory investigations.

Prerequisites - Principles of Agriculture

Term: Year **Credit:** 1.0 Science State Credit or State Elective Credit

SOCIAL STUDIES

This course receives AP/DC weighting in the GPA. See AP criteria.

2011 World Geography Studies

9

In World Geography Studies, students examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Students describe the influence of geography on events of the past and present with emphasis on contemporary issues. A significant portion of the course centers around the physical processes that shape patterns in the physical environment; the characteristics of major landforms, climates, and ecosystems and their interrelationships; the political, economic, and social processes that shape cultural patterns of regions; types and patterns of settlement; the distribution and movement of the world population; relationships among people, places, and environments; and the concept of region. Students analyze how location affects economic activities in different economic systems. Students identify the processes that influence political divisions of the planet and analyze how different points of view affect the development of public policies. Students compare how components of culture shape the characteristics of regions and analyze the impact of technology and human modifications on the physical environment. Students use problem-solving and decision-making skills to ask and answer geographic questions.

Prerequisites - None

Term: Year **Credit:** 1.0 Social Studies State Credit

2012 Advanced World Geography Studies

9

In World Geography Studies, students examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Students describe the influence of geography on events of the past and present with emphasis on contemporary issues. A significant portion of the course centers around the physical processes that shape patterns in the physical environment; the characteristics of major landforms, climates, and ecosystems and their interrelationships; the political, economic, and social processes that shape cultural patterns of regions; types and patterns of settlement; the distribution and movement of the world population; relationships among people, places, and environments; and the concept of region. Students analyze how location affects economic activities in different economic systems. Students identify the processes that influence political divisions of the planet and analyze how different points of view affect the development of public policies. Students compare how components of culture shape the characteristics of regions and analyze the impact of technology and human modifications on the physical environment. Students use problem-solving and decision-making skills to ask and answer geographic questions.

Prerequisites - None

Term: Year **Credit:** 1.0 Social Studies State Credit

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

2013 AP Human Geography

9-12

AP Human Geography is an introductory college-level human geography course. Students cultivate their understanding of human geography through data and geographic analyses as they explore topics like patterns and spatial organization, human impacts and interactions with their environment, and spatial processes and societal changes.

Prerequisites - None

Term: Year **Credit:** 1.0 Social Studies State Credit

2021 World History

10

World History Studies is a survey of the history of humankind. The major emphasis is on the study of significant people, events, and issues from the earliest times to the present. Traditional historical points of reference in world history are identified as students analyze important events and issues in western civilization as well as in civilizations in other parts of the world. Students evaluate the causes and effects of political and economic imperialism and of major political revolutions since the 17th century. Students examine the impact of geographic factors on major historic events and identify the historic origins of contemporary economic systems. Students analyze the process by which constitutional governments evolved as well as the ideas from historic documents that influenced that process. Students trace the historical development of important legal and political concepts. Students examine the history and impact of major religious and philosophical traditions. Students analyze the connections between major developments in science and technology and the growth of industrial economies, and they use the process of historical inquiry to research, interpret, and use multiple sources of evidence.

Prerequisites - None

Term: Year **Credit:** 1.0 Social Studies State Credit

2022 Advanced World History

10

World History Studies is a survey of the history of humankind. The major emphasis is on the study of significant people, events, and issues from the earliest times to the present. Traditional historical points of reference in world history are identified as students analyze important events and issues in western civilization as well as in civilizations in other parts of the world. Students evaluate the causes and effects of political and economic imperialism and of major political revolutions since the 17th century. Students examine the impact of geographic factors on major historic events and identify the historic origins of contemporary economic systems. Students analyze the process by which constitutional governments evolved as well as the ideas from historic documents that influenced that process. Students trace the historical development of important legal and political concepts. Students examine the history and impact of major religious and philosophical traditions. Students analyze the connections between major developments in science and technology and the growth of industrial economies, and they use the process of historical inquiry to research, interpret, and use multiple sources of evidence.

Prerequisites - None

Term: Year **Credit:** 1.0 Social Studies State Credit

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

2023 AP World History Modern

10

AP World History: Modern is an introductory college-level modern world history course. Students cultivate their understanding of world history from c. 1200 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like humans and the environment, cultural

developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.

Prerequisites - None

Term: Year **Credit:** 1.0 Social Studies State Credit

This course receives AP/DC weighting in the GPA. See AP criteria.

2024 AP European History

11-12

AP European History is an introductory college-level European history course. Students cultivate their understanding of European history through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like interaction of Europe and the world; economic and commercial developments; cultural and intellectual developments; states and other institutions of power; social organization and development; national and European identity; and technological and scientific innovation.

Prerequisites - None

Term: Year **Credit:** 1.0 Social Studies State Credit

This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. See AP criteria.

2031 U.S. History Since 1877

11

In United States History Studies Since 1877, students study the history of the United States from 1877 to the present. The course content is based on the founding documents of the U.S. government, which provide a framework for its heritage. Historical content focuses on the political, economic, and social events and issues related to industrialization and urbanization, major wars, domestic and foreign policies, and reform movements, including civil rights. Students examine the impact of geographic factors on major events and eras and analyze their causes and effects. Students examine the impact of constitutional issues on American society, evaluate the dynamic relationship of the three branches of the federal government, and analyze efforts to expand the democratic process. Students describe the relationship between the arts and popular culture and the times during which they were created. Students analyze the impact of technological innovations on American life. Students use critical-thinking skills and a variety of primary and secondary source material to explain and apply different methods that historians use to understand and interpret the past, including multiple points of view and historical context.

Prerequisites - None

Term: Year **Credit:** 1.0 Social Studies State Credit

2032 AP U.S. History

11

AP U.S. History is an introductory college-level U.S. history course. Students cultivate their understanding of U.S. history from c. 1491 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like American and national identity; work, exchange, and technology; geography and the environment; migration and settlement; politics and power; America in the world; American and regional culture; and social structures.

Prerequisites - None

Term: Year **Credit:** 1.0 Social Studies State Credit

This course receives AP/DC weighting in the GPA. See AP criteria.

2033 Dual Credit U.S. History

11

A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period. United States History I includes the study of pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/Reconstruction eras. Themes that may be addressed in United States History I include: American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and creation of the federal government. - HIST 1301. A survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction era to the present. United States History II examines industrialization, immigration, world wars, the Great Depression, Cold War and post-Cold War eras. Themes that may be addressed in United States History II include: American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy.- HIST 1302.

Students must pass both, HIST 1301 & HIST 1302 to be awarded U.S. History credit.

Prerequisites - Passing Entrance Tests Scores As Determined By Lone Star College

Term: Year **Credit:** 1.0 Social Studies State Credit

This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

2041 U.S. Government

12

In United States Government, a one-semester course, the focus is on the principles and beliefs upon which the United States was founded and on the structure, functions, and powers of government at the national, state, and local levels. This course is the culmination of the civic and governmental content and concepts studied from Kindergarten through required secondary courses. Students learn major political ideas and forms of government in history. A significant focus of the course is on the U.S. Constitution, its underlying principles and ideas, and the form of government it created. Students analyze major concepts of republicanism, federalism, checks and balances, separation of powers, popular sovereignty, and individual rights and compare the U.S. system of government with other political systems. Students identify the role of government in the U.S. free enterprise system and examine the strategic importance of places to the United States. Students analyze the impact of individuals, political parties, interest groups, and the media on the American political system, evaluate the importance of voluntary individual participation in a constitutional republic, and analyze the rights guaranteed by the U.S. Constitution. Students examine the relationship between governmental policies and the culture of the United States. Students identify examples of government policies that encourage scientific research and use critical-thinking skills to create a product on a contemporary government issue.

Prerequisites - None

Term: Semester **Credit:** 0.5 Social Studies State Credit

2042 AP U.S. Government and Politics

12

AP U.S. Government and Politics is an introductory college-level course in U.S. government and politics. Students cultivate their understanding of

U.S. government and politics through analysis of data and text-based sources as they explore topics like constitutionalism, liberty and order, civic participation in a representative democracy, competing policy-making interests, and methods of political analysis.

Prerequisites - None

Term: Semester **Credit:** 0.5 Social Studies State Credit

This course receives AP/DC weighting in the GPA. See AP criteria.

2043 **AP Comparative Government and Politics** 12

AP Comparative Government and Politics is an introductory college-level course in comparative government and politics. The course uses a comparative approach to examine the political structures; policies; and political, economic, and social challenges of six selected countries: China, Iran, Mexico, Nigeria, Russia, and the United Kingdom. Students cultivate their understanding of comparative government and politics through analysis of data and text-based sources as they explore topics like power and authority, legitimacy and stability, democratization, internal and external forces, and methods of political analysis.

Prerequisites - None

Term: Semester **Credit:** 0.5 State Elective Credit

This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. See AP criteria.

2044 **Dual Credit Government** 12

Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights - GOVT 2305.

Online Course offered through Lone Star College.

Prerequisites - Passing Entrance Tests Scores As Determined By Lone Star College

Term: Semester **Credit:** 0.5 Social Studies State Credit

This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

2045 **Dual Credit Texas Government** 12

Origin and development of the Texas constitution, structure and powers of state and local government, federalism and intergovernmental relations, political participation, the election process, public policy, and the political culture of Texas. This course does not meet graduation requirements for government credit.

Online Course offered through Lone Star College.

Prerequisites - Passing Entrance Tests Scores As Determined By Lone Star College

Term: Semester **Credit:** 0.5 Social Studies State Credit

This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

XXXX **Dual Credit Texas History** 12

A survey of the political, social, economic, cultural, and intellectual history of Texas from the pre-Columbian era to the present. Themes that may be addressed in Texas History include: Spanish colonization and Spanish Texas; Mexican Texas; the Republic of Texas; statehood and secession; oil, industrialization, and urbanization; civil rights; and modern Texas.

Online Course offered through Lone Star College.

Prerequisites - Passing Entrance Tests Scores As Determined By Lone Star College

Term: Semester **Credit:** 0.5 State Elective Credit

This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

2051 **Economics with Emphasis on Free Enterprise System and Its Benefits** 12

Economics with Emphasis on the Free Enterprise System and Its Benefits is the culmination of the economic content and concepts studied from Kindergarten through required secondary courses. The focus is on the basic principles concerning production, consumption, and distribution of goods and services (the problem of scarcity) in the United States and a comparison with those in other countries around the world. Students analyze the interaction of supply, demand, and price. Students will investigate the concepts of specialization and international trade, economic growth, key economic measurements, and monetary and fiscal policy. Students will study the roles of the Federal Reserve System and other financial institutions, government, and businesses in a free enterprise system. Types of business ownership and market structures are discussed. The course also incorporates instruction in personal financial literacy. Students apply critical-thinking skills using economic concepts to evaluate the costs and benefits of economic issues.

Prerequisites - None

Term: Semester **Credit:** 0.5 Social Studies State Credit

2053 **AP Macroeconomics** 12

AP Macroeconomics is an introductory college-level macroeconomics course. Students cultivate their understanding of the principles that apply to an economic system as a whole by using principles and models to describe economic situations and predict and explain outcomes with graphs, charts, and data as they explore concepts like economic measurements, markets, macroeconomic models, and macroeconomic policies.

Prerequisites -None

Term: Semester **Credit:** 0.5 Social Studies State Credit

This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. See AP criteria.

2054 **Dual Credit Macroeconomics** 12

An analysis of the economy as a whole including measurement and determination of Aggregate Demand and Aggregate Supply, national income, inflation, and unemployment. Other topics include international trade, economic growth, business cycles, and fiscal policy and monetary policy. – ECON 2301.

Online Course offered through Lone Star College.

Prerequisites - Passing Entrance Tests Scores As Determined By Lone Star College/See Dual Credit Criteria

Term: Semester **Credit:** 0.5 Social Studies State Credit

This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

2061 **Psychology** 10-12

In Psychology, a one-semester elective course, students study the science of behavior and mental processes. Students examine the full scope of the science of psychology such as the historical framework, methodologies, human development, motivation, emotion, sensation, perception, personality development, cognition, learning, intelligence, biological foundations, mental health, and social psychology.

Prerequisites - None

Term: Semester **Credit:** 0.5 State Elective Credit

2062 **AP Psychology** 10-12

AP Psychology is an introductory college-level psychology course. Students cultivate their understanding of the systematic and scientific study of human behavior and mental processes through inquiry-based investigations as they explore concepts like the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Students will receive AP Psychology Prep during the Fall semester and AP Psychology in Spring semester. Each semester is equivalent to 0.5 State Elective Credit with AP weighting.

Prerequisites – None

Term: Year **Credit:** 1 State Elective Credit

This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. See AP criteria.

2063 **Dual Credit Psychology** 11-12

This course is a survey of the essential subject areas, major theories and approaches to the scientific study of behavior and mental processes – PSYC 2301.

Online Course offered through Lone Star College.

Prerequisites - Passing Entrance Tests Scores As Determined By Lone Star College

Term: Semester **Credit:** 0.5 State Elective Credit

This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

2071 **Sociology** 10-12

Sociology, an elective course, is an introductory study in social behavior and organization of human society. This course will describe the development of the field as a social science by identifying methods and strategies of research leading to an understanding of how the individual relates to society and the ever changing world. Students will also learn

the importance and role of culture, social structure, socialization, and social change in today's society.

Prerequisites -Passing Entrance Tests Scores As Determined By Lone Star College

Term: Semester **Credit:** 0.5 State Elective Credit

2072 **Dual Credit Sociology** 11-12

This course is an introduction to the basic elements of society. In looking at human behavior, this course includes an introduction to dynamics of society, culture, social groups, social institutions, socialization, social processes and social structure - SOCI 1301.

Online Course offered through Lone Star College.

Prerequisites - Passing Entrance Tests Scores As Determined By Lone Star College

Term: Semester **Credit:** 0.5 State Elective Credit

This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

2085 **Personal Financial Literacy** 10-12

Personal Financial Literacy will develop citizens who have the knowledge and skills to make sound, informed financial decisions that will allow them to lead financially secure lifestyles and understand personal financial responsibility. The knowledge gained in this course has far-reaching effects for students personally as well as the economy as a whole. When citizens make wise financial decisions, they gain opportunities to invest in themselves, build businesses, consume goods and services in a responsible way, and secure a future without depending on outside assistance. The economy benefits from the optimal use of resources, increased consumption, and strong local businesses. State and local governments benefit with steady revenue streams and reduced future obligations as our society ages.

Prerequisites - None

Term: Semester **Credit:** 0.5 State Elective Credit

XXXX **Personal Financial Literacy and Economics** 11-12

The Personal Financial Literacy and Economics Course emphasizes the economic way of thinking, which serves as a framework for the personal financial decision-making opportunities introduced in the course. Students will demonstrate the ability to anticipate and address financial challenges as these challenges occur over their lifetime. In addition, students are introduced to common economic and personal financial planning terms and concepts. As a result of learning objective concepts and integrating subjective information, students gain the ability to lead productive and financially self-sufficient lives.

Prerequisites - None

Term: Semester **Credit:** 0.5 Social Studies State Credit

ATHLETICS & PHYSICAL EDUCATION

3000	9th Grade Physical Education	09
3002	10th Grade Physical Education	10
3004	11th Grade Physical Education	11
3006	12th Grade Physical Education	12

The Lifetime Fitness and Wellness Pursuits course offers current approaches for the foundation of personal fitness, physical literacy, lifetime wellness, and healthy living. Students in Lifetime Fitness and Wellness Pursuits will apply the knowledge and skills to demonstrate mastery of the concepts needed to achieve lifetime wellness. Students will participate in a variety of physical activities for attaining personal fitness and lifetime wellness.

Prerequisites - None

Term: Year **Credit:** 1 Physical Education State Credit

MISD Athletics Programs

9th	10th	11th	12th	
3011	3012	3013	3014	Football
3021	3022	3023	3024	Boys Basketball
3031	3032	3033	3034	Boys Soccer
3041	3042	3043	3044	Baseball
3051	3052	3053	3054	Boys Track
3061	3062	3063	3064	Cross Country
3071	3072	3073	3074	Swim
3081	3082	3083	3084	Tennis
3091	3092	3093	3094	Golf
3101	3102	3103	3104	Dive
3201	3202	3203	3204	Volleyball
3211	3212	3213	3214	Girls Basketball
3221	3222	3223	3224	Girls Soccer
3231	3232	3233	3234	Softball
3241	3242	3243	3244	Girls Track

Athletic programs are available in baseball, basketball, cross country, football, golf, soccer, softball, tennis, track, volleyball and swim/diving. These programs are competitive sports regulated by the University Interscholastic League. Team selection may be team tryouts and coaching staff approval. Academic record and demeanor will be considered. The class meeting consists of conditioning activities and skill development. In addition, participation in after-school practices and games are required. These programs may substitute for the 1.0 state credit required for physical education. No more than four (4) Athletics credits may be earned toward state graduation requirements.

3401	Cheerleading I	9-12
3402	Cheerleading II	
3403	Cheerleading III	

3404 **Cheerleading IV**

Cheerleading provides opportunities for the cheerleaders to prepare for a plethora of fall activities. The cheerleaders' responsibilities during the fall season include planning for pep rallies, choreographing routines, preparing for competition, maintaining good physical condition, and safely improving such skills as tumbling, stunting, and jumping. No more than four (4) Cheerleading credits may be earned toward state graduation requirements.

Prerequisites - Tryout/Current Varsity or Junior Varsity Cheerleader

Term: Year **Credit:** 1.0 Physical Education State Credit

Students may not self-elect out of this course during the school year as no equivalent level course is available.

XXXX **Lifetime Recreation and Outdoor Pursuit** 9-12

The Lifetime Recreation and Outdoor Pursuits course provides opportunities for students to develop competency in five or more lifelong recreational and outdoor pursuits for enjoyment and challenge. Students in Lifetime Recreation and Outdoor Pursuits participate in activities that promote physical literacy, respect for and connection to nature and the environment, and opportunities for enjoyment for a lifetime. Students will experience opportunities that enhance self-worth and support community engagement.

Prerequisites - None

Term: Year **Credit:** 1 Physical Education State Credit

XXXX **The Skill-Based Lifetime Activities** 9-12

The Skill-Based Lifetime Activities course offers students the opportunity to demonstrate mastery in basic sport skills, basic sport knowledge, and health and fitness principles. Students experience opportunities that promote physical literacy and lifetime wellness. Students in Skill-Based Lifetime Activities participate in a minimum of one lifelong activity from each of the following five categories during the course. (A) Target games are activities in which students send an object toward a target. (B) Striking and fielding games are activities in which students strike an object in order to score points within a game. (C) Fitness activities provide opportunities for students to apply fitness principles to accomplish an objective. (D) Rhythmic activities provide opportunities for students to demonstrate or create movement sequences with rhythm. (E) Innovative games and activities with international significance are those games and activities that use new or innovative equipment, have been created by students, or are played internationally.

Prerequisites - None

Term: Year **Credit:** 1 Physical Education State Credit

In addition to the courses listed in this section, Marching Band, Dance Team and JROTC I may substitute for state PE credits. Such substitutions shall be based upon the physical activity involved in marching band during the fall semester, athletics, dance team, and JROTC. Students planning to pursue athletics and/or athletic scholarships at the college level must be aware of core curriculum requirements. These students need to contact their coach for printed information regarding the core curriculum as defined by National Collegiate Athletic Association (NCAA).

WORLD LANGUAGES

4011 Spanish I

9-12

This introductory course teaches basic language patterns and vocabulary. Repetition and comprehensible input are important components of this course. Focus is on all four language skills: listening, speaking, reading and writing. Culture is an integral part of the course and is introduced through the use of media, games, adapted readings and class discussions. In addition to written tests and quizzes, students will also be assessed by means of aural activities. Completion of homework assignments is a must. Active participation is required.

Prerequisites - None

Term: Year **Credit:** 1.0 State Foreign Language Credit

4021 Spanish II

9-12

Students continue to develop and improve listening, speaking, reading and writing skills. Emphasis is placed on comprehension of Spanish, as well as, reading and writing practice. Aspects of contemporary Spanish culture are introduced through the use of media, games, and adapted readings and in small or large group discussions. In addition to written/oral tests and quizzes, students are assessed using a variety of formats: oral dialogues, presentations, written compositions and other means. Completion of homework assignments, continuous effort to use the target language, active participation is a must to succeed in this course.

Prerequisites - Spanish I

Term: Year **Credit:** 1.0 State Foreign Language Credit

4022 Advanced Spanish II

9-12

In addition to the Spanish II curriculum, this course provides more in-depth studies of grammar. Students planning to continue on to Advanced Spanish III or Dual Credit Spanish should take this class.

Prerequisites - Spanish I with grade of 90 or better recommended

Term: Year **Credit:** 1.0 State Foreign Language Credit

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

4031 Spanish III

10-12

This course is designed to enrich and reinforce all levels of communication; building upon knowledge gained in Spanish 1 & 2. The course is a continuation and recycling of knowledge acquired in Spanish 1 and Spanish 2, as well as an introduction to new vocabulary, structures and expressions. Students will be expected to expand their vocabulary range to include more sophisticated terms, use advanced language expressions, verb tenses and grammatical concepts such as the pluperfect and the subjunctive mood. Students will view Spanish language films and read selected Spanish literature.

Prerequisites - Spanish I and II

Term: Year **Credit:** 1.0 State Foreign Language Credit

4032 Advanced Spanish III

10-12

This course is a continuation of Advanced Spanish II. This course will continue studies to prepare the students for the College-Level Examination Program and for the College Board Advanced Placement Exam, which is to be taken after Spanish IV. Students are also taught to develop higher level thinking skills such as synthesis and analysis. Oral presentations and readings are emphasized.

Prerequisites - Spanish II with grade of 90 or better recommended

Term: Year **Credit:** 1.0 State Foreign Language Credit

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

4033 Spanish III: Dual Credit Intermediate I

11-12

This course stresses both oral and written exercises to increase vocabulary, expansion of grammatical principles and short themes written on a variety of topics. Selected readings are included to improve comprehension in Spanish. Students with prior language experience should take a placement exam to advance to the next level and receive credit. Students must test into Spanish 2311 by taking the AVANT Placement exam. If a student is placed in DC Spanish 2311 and earns a C or higher they will earn credit for Spanish 1411, 1412, and 2311.

Prerequisites -Passing Entrance Tests Scores As Determined By Lone Star College

Term: Year **Credit:** 1.0 State Foreign Language Credit

This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

4041 Spanish IV

11-12

Spanish IV provides students the opportunity to further develop, improve and refine their listening, speaking, reading and writing skills. Emphasis continues to be placed on aural skills with additional emphasis on reading and writing in the target language. Supplementary materials are utilized to enhance language use. Aspects of contemporary Hispanic culture are emphasized through cultural readings, media, games, and class discussions. Assessment of student performance is identified through written tests and quizzes. In addition, students will also be assessed by means of oral tests, spoken dialogues, presentations, short compositions and other displays.

Prerequisites - Spanish III

Term: Year **Credit:** 1.0 State Foreign Language Credit

4042 AP Spanish Language and Culture

11-12

The AP Spanish Language and Culture course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness.. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. The AP Spanish Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions).

Prerequisites - Spanish III with grade of 90 or better recommended

Term: Year **Credit:** 1.0 State Foreign Language Credit

This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. See AP criteria.

4045 **AP Spanish Literature and Culture**

11-12

This course uses a thematic approach to introduce students to representative texts (short stories, novels, poetry, plays, and essays) from Peninsular Spanish, Latin American, and U. S. Hispanic literature. Students develop proficiencies across the three modes of communication (interpretive, interpersonal, and presentational) in the range of Intermediate High to Advanced Mid of the American Council on the Teaching of Foreign Languages' (ACTFL) Proficiency Guidelines. Through careful examination of the required readings and other texts, students work to hone their critical reading and analytical writing skills. Literature is explored within the contexts of its time and place, and students gain insights on the many voices, historical periods, and cultures represented in the required readings and other texts. The course also includes a strong focus on cultural, artistic, and linguistic connections and comparisons, which is supported by the exploration of various media (art, music, film, articles, and literary criticism).

Prerequisites - AP Spanish Language and Culture, *recommended*

Term: Year **Credit:** 1.0 State Foreign Language Credit

This course receives AP/DC weighting in the GPA.

FINE ARTS

4201	Band I	9-12
4202	Band II	10-12
4203	Band III	11-12
4204	Band IV	12

Three bands are offered for students interested in instrumental music: Marching Band, Symphonic Band, and Concert Band. During football season (Fall) the various concert bands meet three times a week after school to make up the marching band, which performs at all varsity football games, UIL marching contests and non-UIL marching contests, and local parades. Band members are also required to attend Summer Band. During concert season (Spring), section rehearsals are scheduled after school one day a week to prepare for concerts and contests.

Prerequisites -None

Term: Year **Credit:** 1.0 Physical Education State Credit (Band I) Fine Arts State Credit (Band II)

Expected cost to student for this course: \$450.

4211	Band Techniques I	9-12
4212	Band Techniques II	10-12
4213	Band Techniques III	11-12
4214	Band Techniques IV	12

This course is offered for 4 levels of performance from beginner to advanced skills. The class is structured to meet the needs of each student on an individual basis. Woodwind, Brass and Percussion students must furnish their own instruments and approved materials.

Prerequisites - None

Term: Year **Credit:** 1.0 Fine Arts State Credit

4221	Jazz Band I	9-12
4222	Jazz Band II	10-12
4223	Jazz Band III	11-12
4224	Jazz Band IV	12

The high school jazz band is made up of instruments which include woodwinds (saxophone is the primary instrument), trombones, trumpets, and rhythm (piano, electric/string bass, guitar, drum set, and vibraphone). Study and performance of jazz music, improvisation, sight-reading, and jazz style and performance techniques make up the class offered within the school day. Music theory, jazz history and applied music will be integrated into a performance-based curriculum. After school hours are required.

Prerequisites – By Audition Only

Term: Year **Credit:** 1.0 Fine Arts State Credit

4231	Beginner Band I	9-10
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This course is designed to introduce students to beginning instruction for Woodwind and Brass Instruments. Students will learn to perform a repertoire of instrumental literature representing various genres, styles, and cultures with expression, technical accuracy, tone quality, and articulation, by oneself and in ensembles. The course also includes music fundamentals, theory, songs, performance, listening, composing, improvising, analyzing, and learning to read standard music notation. Instrument rental may be required.

Prerequisites - None

Term: Year **Credit:** 1.0 Fine Arts State Credit ONLY

4232	Beginner Band II	9-10
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See Course Description for Beginner Band I.

Prerequisites - Beginner Band I

Term: Year **Credit:** 1.0 Fine Arts State Credit

4300	Bel Canto Women's Choir	9-12
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This intermediate Women's Choir is open to 9th-12th grade females who enjoy performing and want to learn how to sing a variety of music. Bel Canto will perform at all concerts and compete at UIL.

Prerequisites - No audition necessary

Term: Year **Credit:** 1.0 Fine Arts State Credit

4301	A Capella Select Women I	9-12
4302	A Cappella Select Women II	9-12
4303	A Cappella Select Women III	9-12
4304	A Cappella Select Women IV	9-12

This advanced Women's Choir is open to mature females who have a strong desire to work at an extremely high level. A Cappella Women will perform at most concerts and have additional community performances. Auditions are in the spring.

Prerequisites - By audition only. This choir may only be taken in conjunction with Bel Canto, Concert Women, or Chorale Women.

Term: Year **Credit:** 1.0 Fine Arts State Credit

4311	Concert Men I	9-12
4312	Concert Men II	9-12
4313	Concert Men III	9-12
4314	Concert Men IV	9-12

This intermediate men's choir is open to males who enjoy performing and want to learn how to sing a variety of music. Concert Men will perform at all concerts and combine with Concert Women's Choir to form a UIL Mixed Choir.

Prerequisites - No audition necessary

Term: Year **Credit:** 1.0 Fine Arts State Credit

4321	Concert Women I	9-12
4322	Concert Women II	9-12
4323	Concert Women III	9-12
4324	Concert Women IV	9-12

This Advanced Women's Choir is open to 9th-12th grade females who enjoy performing and want to learn how to sing a variety of music. Concert Women will perform at all concerts and combine with Concert Men's Choir to form a UIL Mixed Choir.

Prerequisites - By audition only

Term: Year **Credit:** 1.0 Fine Arts State Credit

4331	Varsity Chorale Men I	9-12
4332	Varsity Chorale Men II	9-12
4333	Varsity Chorale Men III	9-12
4334	Varsity Chorale Men IV	9-12

Varsity Chorale Men is for the advanced male musician. Excellent technique, sight-reading ability, citizenship and discipline are required. Chorale performs at all concerts, in the community and competes at UIL. Auditions are in the spring.

Prerequisites - By audition only

Term: Year **Credit:** 1.0 Fine Arts State Credit

4341	Varsity Chorale Women I	9-12
4342	Varsity Chorale Women II	9-12
4343	Varsity Chorale Women III	9-12
4344	Varsity Chorale Women IV	9-12

Varsity Chorale Women is for the advanced female musician. Excellent technique, sight-reading ability, citizenship and discipline are required. Chorale performs at all concerts, in the community and competes at UIL. Auditions are in the spring.

Prerequisites - By audition only

Term: Year **Credit:** 1.0 Fine Arts State Credit

4351	Jazz Show Choir I	9-12
4352	Jazz Show Choir II	10-12

This Select show choir is open to men and women who would like to explore the performance practices of popular music and musicals. Students will sing, dance, and act in this class.

Prerequisites - By audition only. This choir may only be taken in conjunction with another curricular choir.

Term: Year **Credit:** 1.0 Fine Arts State Credit

4361	Madrigals/Chamber Ensemble I	9-12
4362	Madrigals/Chamber Ensemble II	9-12
4363	Madrigals/Chamber Ensemble III	9-12
4364	Madrigals/Chamber Ensemble IV	9-12

This choir is for the serious and advanced male and female musician. Madrigals/Chamber Choir is a select group of students chosen from the Varsity Chorale. Madrigals/Chamber Choir perform at all concerts, and has additional performances and competitions.

Prerequisites - By audition only. This choir may only be taken in conjunction with Varsity Chorale Women or Varsity Chorale Men.

Term: Year **Credit:** 1.0 Fine Arts State Credit

Year **Credit:** 1.0 Fine Arts State Credit

4372	AP Music Theory	10-12
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The AP Music Theory course corresponds to an introductory college music theory coursework that covers topics such as musicianship, theory, and musical materials and procedures. Musicianship skills, including dictation and listening skills, sight singing, and harmony, are an important part of the course. Through the course, students develop the ability to recognize, understand, and describe basic materials and processes of tonal music that are heard or presented in a score. Development of aural (listening) skills is a primary objective. Performance is also part of the curriculum through the practice of sight-singing. Students learn basic concepts and terminology by

listening to and performing a wide variety of music. Notational skills, speed, and fluency with basic materials are emphasized.

Prerequisites - None

Term: Year **Credit:** 1.0 Fine Arts State Credit

This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. See AP criteria.

4401	Theatre Arts I	9-12
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This course offers students a foundation in theatre history and performance, regular emphasis of vocal and physical communication skills, improvisation, memorization and performance. Other units include Shakespeare, commedia dell'Arte, Technical Theatre Overview and Playwriting.

Prerequisites - None

Term: Year **Credit:** 1.0 Fine Arts State Credit

Expected cost to student for this course: \$20.

4402	Theatre Arts II	10-12
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This course is a deeper study of theatre, emphasizing communication and performance skills. Acting concepts and theories will be applied to in-class performances. Playwriting, Human Video and performance opportunities will be offered.

Prerequisites - Theatre I

Term: Year **Credit:** 1.0 Fine Arts State Credit

4403	Theatre Arts III	11-12
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These courses are designed for students with a serious interest in acting and performance. Students are expected to participate in rehearsals and performances of all department productions, taking a leadership role in each area. Acting refinement, technical theatre involvement and oversight of Front of House management will be emphasized.

Prerequisites - Theatre I & II

Term: Year **Credit:** 1.0 Fine Arts State Credit

4404	Theatre Arts IV	12
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See course description for Theatre Arts II.

Prerequisites - Theatre I-III

Term: Year **Credit:** 1.0 Fine Arts State Credit

4411	Technical Theatre I	9-12
4412	Technical Theatre II	10-12
4413	Technical Theatre III	11-12
4414	Technical Theatre IV	12

Admittance to all Technical Theatre classes is by Admissions Committee approval only. This class includes safety, operation of lights, sound, set design, as well as learning essential knowledge of stage management. Design projects include the creative use of prop, costume, make-up, scenery, lighting and sound. This course also covers responsibilities of the technical crew and available careers in theatre production. Students are expected to take an active role during and after school hours to support the running show.

Prerequisites - None

Term: Year **Credit:** 1.0 Fine Arts State Credit

4421	Theatre Productions I	10-12
4422	Theatre Productions II	11-12
4423	Theatre Productions III	12

Admittance to Theatre Productions is by Admissions Committee approval and audition only. This highly advanced acting class is designed for students who have demonstrated the duality of talent and technique. All students in theatre productions are expected to audition for the One Act Play and must be able to meet all requirements set forth by UIL regarding eligibility. 8th grade auditions will be held in the spring. Acting style, theories and techniques will be studied.

Prerequisites – By Audition Only

Term: Year **Credit:** 1.0 Fine Arts State Credit

4431	Theatre Directing	10-12
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This is an advanced course offered by signature only to the most serious theatre student, offering the fundamentals of script analysis, staging and interpretation as well as knowledge of stage directing. Prior acting experience along with a background in dramatic literature is strongly recommended. Students examine the principle theatre directors of the modern period and their work. Ultimately, students study the relationships of the director to the play, the playwright, the actor, the designers, and the audience.

Prerequisites – By Audition Only

Term: Year **Credit:** 1.0 Fine Arts State Credit

4511	Art I	9-12
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Art is for anyone and everyone! Students will draw, paint, design and create. Art fulfills the state requirement for a Fine Art Credit and is the prerequisite for Drawing II, Painting II, Ceramics II, and Sculpture/Mixed-Media.

Prerequisites - None

Term: Year **Credit:** 1.0 Fine Arts State Credit

4522	Art II Intro to Drawing	10-12
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This course develops problem solving and technical skills by experimenting with graphite, charcoal, inks, and pastels.

Prerequisites - Art 1

Term: Year **Credit:** 1.0 Fine Arts State Credit

Students may need to purchase \$40 in art supplies.

4523	Art III Intermediate Drawing	11-12
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Compositional problem solving and technical skills will be continued. A student will begin to develop their portfolio.

Prerequisites - Art I, Art II Drawing

Term: Year **Credit:** 1.0 Fine Arts State Credit

Students may need to purchase \$40 in art supplies.

4524	Art IV Upper Level Drawing	12
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Further study of compositional problem solving and development of technical skills. A student will develop their drawing portfolio.

Prerequisites - Art I, Art II Drawing, Art III Drawing

Term: Year **Credit:** 1.0 Fine Arts State Credit

Students may need to purchase \$40 in art supplies.

4532	Art II Intro to Painting	10-12
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Focus on paint mixing, color theory, and developing skills. Artists and art movements will be studied with emphasis on composition.

Prerequisites - Art I

Term: Year **Credit:** 1.0 Fine Arts State Credit

Students may need to purchase \$50 in art supplies.

4533	Art III Intermediate Painting	11-12
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Students will further develop their ability to create visual ideas and develop individual style/techniques.

Prerequisites - Art I, Art II Painting

Term: Year **Credit:** 1.0 Fine Arts State Credit

Students may need to purchase \$40 in art supplies.

4534	Art IV Upper Level Painting	12
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The student must be self-motivated and serious about painting. This course is designed to allow for exploration and development of individual style while creating a portfolio of artwork.

Prerequisites - Art I, Art II Painting, Art III Painting

Term: Year **Credit:** 1.0 Fine Arts State Credit

Students may need to purchase \$40 in art supplies.

4542	Art II Sculpture	10-12
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4543	Art III Sculpture	11-12
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4544	Art IV Sculpture	12
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Students will create three dimensional projects from paper, glue, wood, hose, cardboard, candles, fabric, yarn, linoleum and ink. Emphasis will be on safety, tools and procedures. Visual journals will be introduced.

Prerequisites - Art I

Term: Year **Credit:** 1.0 Fine Arts State Credit

Students may need to purchase \$40 in art supplies.

4552	Art II Intro to Ceramics	10-12
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Introduction to ceramic processes: utilization of basic clay materials, building of clay forms. Firing, glazing, and aesthetic principles of ceramic sculpture.

Prerequisites - Art 1

Term: Year **Credit:** 1.0 Fine Arts State Credit

Students may need to purchase \$50 in art supplies.

4553	Art III Intermediate Ceramics	11-12
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Further study of ceramic techniques focusing on 3D portfolio development.

Prerequisites - Art I, Art II Ceramics

Term: Year **Credit:** 1.0 Fine Arts State Credit

Students may need to purchase \$50 in art supplies.

4554 **Art IV Upper Level Ceramics** 12

Further study of ceramic techniques focusing on 3D portfolio development.

Prerequisites - Art I, Art II Ceramics, Art III Ceramics

Term: Year **Credit:** 1.0 Fine Arts State Credit

Students may need to purchase \$50 in art supplies.

AP Art & Design Program

The AP Art and Design program consists of three different courses and AP Portfolio Exams—AP 2-D Art and Design, AP 3-D Art and Design, and AP Drawing—corresponding to college and university foundations courses.

4562 **AP 2-D Art and Design** 10-12

Students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of a year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions. It is recommended that students have prior experiences learning about and making art and design support student success in AP Art and Design.

Prerequisites - Art I

Term: Year **Credit:** 1.0 Fine Arts State Credit

This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. See AP criteria. Students may need to purchase \$40 in art supplies.

4563 **AP 3-D Art and Design** 10-12

Students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of a year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions. It is recommended that students have prior experiences learning about and making art and design support student success in AP Art and Design.

Prerequisites - Art I

Term: Year **Credit:** 1.0 Fine Arts State Credit

This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available.

4564 **AP Studio Art: Drawing Portfolio** 10-12

Students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of a year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions. It is recommended that students have prior experiences learning about and making art and design support student success in AP Art and Design.

Prerequisites - Art I

Term: Year **Credit:** 1.0 Fine Arts State Credit

This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available.

4565 **AP Art History** 10-12

The AP Art History course welcomes students into the global art world to engage with its forms and content as they research, discuss, read, and write about art, artists, art making, and responses to and interpretations of art. By investigating specific course content of 250 works of art characterized by diverse artistic traditions from prehistory to the present, the students develop in-depth, holistic understanding of the history of art from a global perspective. Students learn and apply skills of visual, contextual, and comparative analysis to engage with a variety of art forms, developing understanding of individual works and interconnections across history.

Prerequisites - None, *World History recommended*

Term: Year **Credit:** 1.0 Fine Arts State Credit

This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available.

4611 **Dance I (Non-drill team)** 9-12

Students are introduced to the fundamentals and techniques of all disciplines of dance. Creative expression and interpretation through movement are explored. Students will be required to furnish apparel (leotard & black Capri pants).

Prerequisites - None

Term: Year **Credit:** 1.0 Fine Arts State Credit or PE State Credit

Expected cost to student for this course: \$55.

4612 **Dance II (Non-drill team)** 10-12

Dance II emphasizes beginner dance technique, routines and performance. Students will learn and improve and increase flexibility, stamina, and physical fitness while learning new dance terms. Students will practice an effective warm-up, using elements of proper conditioning, and perform memorized movement combinations with rhythmical accuracy in several dance styles. Students will be required to purchase black leotard, jazz pants, and tap shoes. No after school hours are required.

Prerequisites - Dance I

Term: Year **Credit:** 1.0 Fine Arts State Credit or PE State Credit

Expected cost to student for this course: \$75.

4613 **Dance III (Non-drill team)** 11-12

See course description for Dance II (Non-drill team).

Prerequisites - Dance II

Term: Year **Credit:** 1.0 Fine Arts State Credit or PE State Credit

4614 **Dance IV (Non-drill team)** 12

See course description for Dance II (Non-drill team).

Prerequisites - Dance III

Term: Year **Credit:** 1.0 Fine Arts State Credit or PE State Credit

4621	Dance Team I	9-12
4622	Dance Team II	10-12
4623	Dance Team III	11-12
4624	Dance Team IV	12

Dance Team emphasizes dance techniques, routines and performance at football games, pep rallies, some basketball games, community events, contests, and spring show. Students will demonstrate sensitivity toward others when working in groups, and express ideas and emotions through movement. Students will practice an effective warm-up and cool-down, using elements of proper conditioning, and perform memorized movement sequences with rhythmical accuracy in several dance styles. Students will demonstrate appropriate audience behavior and etiquette in the classroom and at performances. After school hours are required. Try-outs take place in the spring semester. (Physical Education waiver can be used for Fall semester only.).

Prerequisites - Participation In Drill Team

Term: Year **Credit:** 1.0 Fine Arts State Credit or PE State Credit

4631	Dance Production I	10-12
4632	Dance Production II	11-12
4633	Dance Production III	12

This class will be more advanced than the Dance Team class. It will focus on the officers and leaders of the drill team. They will choreograph routines for productions, shows, and competitions throughout the year, design sets and costumes, and create lesson plans for the team. They will also demonstrate responsibility, artistic discipline, and creative problem solving. These students will gain more experience in the art of dance and dance production skills, as well as leadership qualities.

Prerequisites - Drill Team Officers & Leaders

Term: Year **Credit:** 1.0 Fine Arts State Credit

5141	Floral Design	10-12
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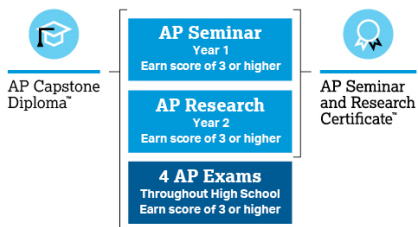
This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students will develop respect for the traditions and contributions of diverse cultures. Students will respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations.

Prerequisites - None

Term: Year **Credit:** 1.0 Fine Arts State Credit or State Elective Credit

OTHER COURSES

AP Capstone Program



4902 AP Seminar 10-11

AP Seminar is an interdisciplinary course that uses an inquiry approach to engage students in conversations that explore the complexities of academic and real-world topics and issues by analyzing varying perspectives. Students will consider one topic or issue through a variety of lenses and from multiple perspectives, many of which are divergent or competing. Students will participate in both collaborative and independent performance tasks as well as an end-of-course exam to earn AP credit.

Prerequisites - None

Term: Year **Credit:** 1.0 State Elective Credit

This course receives AP/DC weighting in the GPA.

4901 AP Research 11-12

AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000- 5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense.

Prerequisites - AP Seminar

Term: Year **Credit:** 1.0 State Elective Credit

This course receives AP/DC weighting in the GPA.

Please note that students who earn scores of 3 or higher in AP Seminar and AP Research will receive the AP Seminar and Research Certificate® signifying their attainment of college-level academic and research skills. In addition, students who earn a 3 or higher in four additional AP Courses will receive the AP Capstone Diploma®. For further information, please consult the College Board Website

5511 Health 9-12

Provides students with an introduction to health facts which develop proper attitudes, establish practices and habits that will contribute to personal, family, and community health.

Prerequisites - None

Term: Semester **Credit:** 0.5 State Elective Credit

4911 Lead Worthy 9-12

This is a one semester course that teaches key concepts essential for maximum success at the high school level and in life. Study skills will be taught along with how to develop personal goals. Students will learn how to develop relationships, positive self-concept, peer pressure resistance, a positive attitude, work ethic, trust and support. Students will learn to be proactive leaders instead of reactive.

Prerequisites - None

Term: Semester **Credit:** 0.5 State Elective Credit

Gifted-Talented Interdisciplinary Studies

XXXX	Seminar I	
XXXX	Seminar II	9-12
XXXX	Seminar III	
XXXX	Seminar IV	

This course is based on the required Texas Performance Standards Project (TPSP) for gifted and talented (G/T) learners; it offers a non-traditional learning experience to students who have the ability to create innovative products and/or performances. Students will develop a product proposal, compile a portfolio, conduct in-depth research, be matched with a mentor from the professional community, and prepare for a public presentation of their portfolio, product, or performance at the end of the school year.

Prerequisites - Student Must Be Identified As Gifted And Talented

Term: Year **Credit:** 1.0 State Elective Credit

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

6601	Study Skills I	9-10
6602	Study Skills II	10-12

The students will learn how to use the tools offered in the high school to help them succeed in the classroom. They will learn how to study using the following skills: time management, organization, goal setting, making schedules, stress management, critical thinking, memorization, and vocabulary building exercises. They will learn how to participate actively in the classroom using the following skills: preparing for class, taking notes in lectures, and paying attention to assigned tasks. They will learn how to prepare for tests using test taking strategies, general test preparation, anticipating test content, review tools for tests, and overcoming test anxiety.

Prerequisites - Counselor approval

Term: Semester **Credit:** 0.5 Local Credit

6603 Performance Psychology 10-12

Performance psychology is an overview of basic concepts and principles essential to understanding the psychological and behavioral aspects of performance. Emphasis is given to the conceptual frameworks and applied aspects of the mental skills involved in competition to include: motivation, attentional focus, stress reactions, and the sociological factors of performance. Content is applicable to athletic and other types of competition.

Prerequisites - None

Term: Semester **Credit:** 0.5 Elective Local Credit

ROTC Program

Per Department of Defense regulations, MISD is permitted to serve students at Montgomery High School. Students from the Lake Creek High School attendance zone that want to participate in ROTC will be required to transfer to Montgomery High School for some coursework. Transportation will not be provided by the district.

5621 MCJROTC I

9-12

The Marine Corps JROTC program is a four year program that is designed to prepare students for life beyond high school. The mission of the Marine Corps Junior ROTC is to: develop informed and responsible citizens, develop leadership skills, strengthen character, and help form habits of self-discipline. The second through fourth years of the program build on the first year by offering an opportunity to become involved in leadership roles. Completion of JROTC offers immediate benefits (promotions) for those students choosing to enlist after high school. We also help prepare students with college ROTC and Service Academy Scholarship applications in their junior and senior year. All uniforms, equipment and supplies are furnished by the program except the student's personal athletic clothing, the cost of which is the responsibility of the student. Students must be able to complete the physical functions associated with military drill and basic forms of exercise. Lastly, students must also be able to fit into issued uniforms. A Physical Education waiver applies to this class.

Prerequisites - None

Term: Year **Credit:** 1.0 State Elective Credit and Physical Education Waiver

5622 MCJROTC II

10-12

5623 MCJROTC III

11-12

5624 MCJROTC IV

12

JROTC II/III/IV builds on the first year experience by allowing cadets to be assigned leadership roles within the unit. Cadets learn decision making and the fundamentals of leadership while taking on ever increasing roles of responsibility within the unit. Additionally, cadets assume leadership roles within the after-school teams that further develop their sense of shared purpose and belonging. All general information contained in JROTC I above also applies to JROTC II/III/IV.

Prerequisites - MCJROTC I/ Admissions Committee Approval

Term: Year **Credit:** 1.0 State Elective Credit and Physical Education Waiver

Course Fee: \$50.

5632 MCJROTC Drill II

10-12

5633 MCJROTC Drill III

11-12

5634 MCJROTC Drill IV

12

This course is available only to cadets taking a regular JROTC class. Cadets who attend and are selected after tryouts for the drill teams will develop and refine the leadership skills and sense of teamwork initiated in the regular JROTC classes. Teams include Armed/Unarmed Drill as well as Color Guard. Precision drill, academics and detailed grooming standards are all emphasized in preparation for competitive drill and athletic events. Cadets selected for this class must be available after school on selected days for practice. Cadets will be required to attend competitive events several times throughout the year in/around the state.

Prerequisites - Admissions Committee Approval

Term: Year **Credit:** 1.0 Elective Local Credit

5641 MCJROTC Student Leadership - Juniors 11

This course is available only to select JROTC juniors who have indicated a desire to enlist immediately after high school, or who are preparing ROTC/Service Academy scholarships. Physical conditioning is emphasized as well as the basic elements of self-discipline necessary to succeed in both a college and military environment. Students are given advanced information regarding enlistment and scholarship opportunities.

Prerequisites - Admissions Committee Approval

Term: Year **Credit:** 1.0 State Elective Credit

5642 MCJROTC Student Leadership - Seniors 12

This course is available only to select JROTC seniors who have indicated a desire to enlist immediately after high school, or who are preparing ROTC/Service Academy scholarships. Physical conditioning is emphasized as well as the basic elements of self-discipline necessary to succeed in both a college and military environment. Students are given advanced information regarding enlistment and scholarship opportunities.

Prerequisites - Admissions Committee Approval

Term: Year **Credit:** 1.0 State Elective Credit

5643 MCJROTC Command Development 12

The Command Development class provides cadets the opportunity to receive advanced training in command and staff tasks associated with the logistic and administrative requirements essential to the functioning of the JROTC unit. These include but are not limited to: supply ordering, inventory and organization; cadet service, promotion and award record keeping; weekly inspection recording and preparation; garrison property inventory and maintenance; armory, ordnance and optical equipment maintenance and inventory; battalion annual cruise book preparation and other functions as determined by the Senior Marine Instructor. This class requires prior approval of the SMI for entry and is only open to senior cadets.

Prerequisites - Admissions Committee Approval

Term: Year **Credit:** 1.0 State Elective Credit

0561 Professional Communication 9-12

Students will understand and develop skills in communications that are fundamental to all learning and to all levels of human interactions. Students will be expected to identify, analyze, develop, and evaluate communication skills needed for professional and social success in interpersonal situations, group interactions, and personal and professional presentations. This course satisfies the state speech requirement.

Prerequisites - None

Term: Semester **Credit:** 0.5 State Elective Credit

0562 Student Leadership 10-12

This course is designed for student leaders. In order to enroll in this course students must be in good academic standing, and have no major discipline referrals. This course is a hands-on, lab oriented approach to leadership that provides opportunities to study, practice, and develop group and individual leadership and organizational skills. Students will learn the structure of leadership, responsible citizenship, goal setting, group process, evaluation, communication, and organization and managerial skills.

Prerequisites - Admissions Committee Approval

Term: Year **Credit:** 1.0 State Elective Credit

A maximum of one state credit is awarded for this course.

Section III

Career & Technical Education (CTE) Course Catalog



Montgomery ISD offers a wide variety of Career and Technical Education courses. Career and technical education programs offer a sequence of courses that provides students with coherent and rigorous content. CTE content is aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in current or emerging professions.

For more information on Montgomery ISD CTE please visit:

https://www.misd.org/departments/career_and_technology_education

INDUSTRY BASED CERTIFICATIONS (IBC)

The Career and Technical Education Department encourages and provides opportunities for students to earn an industry-based certification. Earning these certifications have many benefits including a sense of accomplishment, a highly valued professional credential and helps students achieve higher entry-level salaries. Valid reliable industry certifications are also evidence of technical skill attainment and are an important component of a CTE program of study as well as the CCMR School accountability. Listed below are the certifications or licenses that a student may complete while enrolled at Montgomery ISD. Additional certifications will be added as opportunities for our students arise.

- Texas State Florist's Association-Level I Certification
 - Texas State Florist's Association- Knowledge Based Floral Certification
 - Educational Aide I
 - Entrepreneurship and Small Business
 - Stukent Social Media Marketing Certification
 - Microsoft Office Specialist: Microsoft Word Expert
 - Microsoft Office Specialist: Microsoft Excel Expert
 - CompTIA Security+
 - Oracle Certified Associate Java SE 8 Programmer
 - Cisco 200-201 CBROPS-Understanding Cisco Cybersecurity Operations Fundamentals
 - CompTIA Network+
 - Cybersecurity Fundamentals
 - Intuit Quickbooks- Certified User
 - Accounting Basic
 - Accounting Foundations
 - Adobe Certified Professional in Visual Design using Adobe Photoshop
 - Adobe Certified Professional in Graphic Design and Illustration using Adobe Illustrator
 - Adobe Certified Professional in Digital Video using Adobe Premiere Pro
 - ServSafe- Food Handler Safety Certification
 - ServSafe-Manager Certification
 - Equine Management and Evaluation
 - Certified Veterinary Assistant, Level 1
 - Elanco Fundamentals of Animal Science
 - Elanco Veterinary Medical Applications
 - Small Animal Science and Technology
 - Cosmetology Operator License
 - American Welding Society (AWS) D1.1
 - American Welding Society (AWS) D9.1
 - Certified Clinical Medical Assistant (CCMA)
 - Certified Patient Care Technician (CPCT)
 - Certified EKG Technician
 - Phlebotomy Technician
 - Real Estate Sales Agent License
 - Emergency Medical Technician (EMT)-Basic
 - Non-commissioned Security Officer Level II
 - Engineering Technology Foundations
 - National Institute for Automotive Service Excellence (ASE) – Automotive Technology classes at Lone Star
 - National Center for Construction Education and Research (NCCER) – Welding and Machining classes at Lone Star
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CAREER CLUSTERS

Career Clusters provide an organization of instruction and student experiences grouped within the 16 broad categories that encompass virtually all occupations from entry through professional levels. The sixteen career clusters that the state of Texas offers are:

	Agriculture, Food & Natural Resources	The Agriculture, Food, and Natural Resources (AFNR) Career Cluster® focuses on the essential elements of life—food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist. It also includes non- traditional agricultural occupations like wind energy, solar energy, and oil and gas production.
	Architecture & Construction	The Architecture and Construction Career Cluster® focuses on designing, planning, managing, building, and maintaining the built environment. Principles of Architecture provides an overview of the various fields of architecture, interior design, and construction management.
	Arts, A/V Technology & Communications	The Arts, A/V Technology and Communications (AAVTC) Career Cluster® focuses on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services. Careers in the AAVTC Career Cluster require a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication.
	Business, Marketing, & Finance	The Business, Marketing and Finance Career Cluster® focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations.
	Education & Training	The Education and Training Career Cluster® focuses on planning, managing, and providing education and training services and related learning support services. All parts of courses are designed to introduce learners to the various careers available within the Education and Training career cluster.
	Energy	The Energy Career Cluster® prepares individuals for careers in the designing, planning, maintaining, generating, transmission, and distribution of traditional and alternative local energy.
	Health Science	The Health Science Career Cluster® on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others.
	Hospitality & Tourism	The Hospitality and Tourism Career Cluster® focuses on the management, marketing, and operations of restaurants and other food/beverage services, lodging, attractions, recreation events, and travel-related services. Students learn knowledge and skills focusing on communication, time management, and customer service that meet industry standards.
	Human Services	The Human Services Career Cluster® focuses on preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care services, and consumer services.
	Information Technology	The Information Technology (IT) Career Cluster® focuses on building linkages in IT occupations for entry level, technical, and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services.
	Law & Public Service	The Law and Public Service Career Cluster® focuses on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services.
	Manufacturing	The Manufacturing Career Cluster® focuses on planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.
	Science, Technology, Engineering & Mathematics	The Science, Technology, Engineering, and Mathematics (STEM) Career Cluster® focuses on planning, managing, and providing scientific research and professional and technical services, including laboratory and testing services, and research and development services.
	Transportation, Distribution & Logistics	The Transportation, Distribution and Logistics Career Cluster® focuses on careers in planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water. It also includes related professional support services such as transportation infrastructure planning, and management, logistics services, mobile equipment and facility maintenance.

Business & Industry Endorsement

Agriculture, Food, and Natural Resources Career Cluster

The Agriculture, Food, and Natural Resources (AFNR) Career Cluster focuses on the essential elements of life—food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist. It also includes non-traditional agricultural occupations like wind energy, solar energy, and oil and gas production.



Programs of Study:

Animal Science			
Course #	Level	Course Name	Credit (s)
5110	1	Principles of Agriculture, Food, and Natural Resources	1
5124	2	Small Animal Management AND Equine Science	.5
5121	2		.5
5122	3	Livestock Production	1
5123	4	Animal Science	1
5125	4	Veterinary Medical Applications	1
5126/5127	4	Practicum in Agriculture, Food, and Natural Resources: Vet Med	2-3
5128	4	Project Based Research: Animal Science	1

Plant Science			
Course #	Level	Course Name	Credit (s)
5110	1	Principles of Agriculture, Food, and Natural Resources	1
5145	2	Greenhouse Operations OR Floral Design	1
5141	3		1
5143	3	Horticulture Science OR Advanced Floral Design	1
5142	4		1
5144	4	Plant and Soil Science	1
5126/5127	4	Practicum in Agriculture, Food, and Natural Resources: Plant Science	2-3
5146	4	Project Based Research: Plant Science	1

Applied Agricultural Engineering

Course #	Level	Course Name	Credit (s)
5110	1	Principles of Agriculture, Food, and Natural Resources	1
5131	2	Agricultural Mechanics and Metal Technologies	1
5132/5139	3	Agricultural Structures Design and Fabrications/Lab	1-2
5137 5126/5127	4 4	Agricultural Equipment Design and Fabrication Lab Practicum in Agriculture, Food, and Natural Resources: Ag Mechanics	2 2-3
5138	4	Project Based Research: Agricultural Mechanics	1

Agriculture, Food, and Natural Resources

5110 Principles of Agriculture, Food and Natural Resources 9-11

Enhances the agricultural comprehension of young adults. Includes agricultural career development, leadership, communications and personal finances. This course also includes the overview of soil and plants, animals, and agricultural construction.

Prerequisites - None

Term: Year **Credit:** 1.0 State Elective Credit

5121 Equine Science 10-12

Develop knowledge and skills pertaining to the selection, nutrition, reproduction, health, and management of horses. This course is recommended for those that have an interest in the Veterinary Science field.

Prerequisites - Principles of Agriculture, Food and Natural Resources

Term: Semester **Credit:** 0.5 State Elective Credit

Certification: Equine Management and Evaluation

5122 Livestock Production 10-12

Introduces the common veterinary skills and procedures used on livestock, anatomy of livestock, genetics and reproduction, and diseases that can affect all livestock animals. This course is recommended for those that have an interest in the Veterinary Science field.

Prerequisites - Principles of Agriculture, Food and Natural Resources

Term: Year **Credit:** 1.0 State Elective Credit

5123 Advanced Animal Science 11-12

Develop and investigate the scientific and technological dimensions of scientific animal agriculture, genetics and reproduction on, anatomy and physiology of various livestock species, nutritional requirements, and disease and parasites of livestock. This class is recommended for those students with an interest in Veterinary Science. This class will have 40% of

class time instruction to conduct field experiments and laboratory investigations.

Prerequisites - Principles of Agriculture, Food and Natural Resources AND Small Animal Management, Equine Science, or Livestock Production

Term: Year **Credit:** 1.0 Science State Credit or State Elective Credit

Certification: Elanco Fundamentals of Animal Science Certification

This course does NOT receive advanced weighting in the GPA

5124 Small Animal Management 10-12

Develop knowledge and skills pertaining to small animals and the small animal management industry. This course may address topics related to small mammals such as dogs and cats, amphibians, reptiles, and birds.

Prerequisites - Principles of Agriculture, Food and Natural Resources

Term: Semester **Credit:** 0.5 State Elective Credit

Certification: Small Animal Science Technology

5125 Veterinary Medical Applications 11-12

This course is designed to prepare students for careers in the field of animal science. This course covers knowledge and skills related to animal systems, workplace industry expectations, career opportunities, and veterinary practices for both large and small animal species. This class will introduce students to basic medical terminology, exam procedures, safety protocols, customer relations and more. Students taking this course should be considering a career as a veterinarian, a registered vet technician, a research scientist, or other animal health careers such as kennel owner or groomer.

Prerequisites - Principles of Agriculture, Food and Natural Resources AND Animal Science, Equine Science/Small Animal or Livestock Production

Term: Year **Credit:** 1.0 State Elective Credit

Certification: Elanco Veterinary Medical Applications Certification

5126 Practicum in Agriculture, Food, and Natural Resources 12

This course is a continuation of the Veterinary Medical Application course providing further training in the unlicensed veterinary assistant field. This upper-level course includes, but is not limited to, animal handling and

restraint, health and safety, sanitation, surgical preparation, anatomy, physiology, medical terminology, infectious diseases, instrument and equipment identification, vaccine preparation and injection techniques, laws and ethics, and veterinary office procedures. The curriculum provides instruction to assist students in practicing communication skills, utilizing listening skills to follow directions, practicing basic mathematics skills as applied to a veterinary medical setting, and reading to gain information, and to perform assignments and tasks as directed. This course will include a clinical rotation designed to allow students to gain hands-on experience working in various veterinary assistant positions, and the teacher and rotation site sponsor should jointly develop worksite competencies.

Prerequisites - Successful completion of 3 courses in a specific agriculture, food, and natural resources pathway.

Term: Year **Credit:** 2.0-3.0 State Elective Credit.

Certification: Certified Veterinary Assistant, Level 1

Beginning with the graduating class of 2026 this course will receive advanced weighting in the GPA

5128 Project-Based Research-Animal Science 12

This course is designed as an extension of the students project and research in the pathway and final course in the sequent to become a completer. Must develop a teacher approved project and requires independent learning and self motivation in a project based learning environment.

Prerequisites - Principles of Agriculture, Food, and Natural Resources and successful completion of at least 2 other courses in the pathway.

Term: Year **Credit:** 1.0 State Elective Credit

5131 Ag Mechanics and Metal Technologies 10-12

The course develops an understanding of tool operation, electrical wiring, plumbing, carpentry, and metalworking techniques. Develops proficiency in many welding skills. Students will be expected to use the cutting torch and MIG Welders. Welding in several positions, which include flat, horizontal, and vertical.

Prerequisites - Principles of Agriculture, Food, and Natural Resources

Term: Year **Credit:** 1.0 State Elective Credit

5132 Ag Structures Design and Fabrication/Lab 11-12

This course will allow students to explore career opportunities, entry requirements, and industry expectations. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural structures design and fabrication.

Prerequisites - Principles of Agriculture, Food, and Natural Resources, Ag Mechanics & Metal Technologies

Term: Year **Credit:** 1.0-2.0 State Elective Credit

5133 Dual Credit Introduction To Welding (at Lone Star College - Conroe) 11-12

An introduction to fundamentals of equipment used in oxyacetylene and arc welding, including welding and cutting safety, basic oxyacetylene welding and cutting, basic arc welding processes and basic metallurgy - WLDG 1421, 1417, 1428, 1457. The Welding Technology Certificate Program (Dual Credit Welding) prepares the student for entry-level employment as a structural welder. Courses completed in this certificate program may be applied toward the welding technology associate of applied science degree.

Course instruction provided at Lone Star College – Conroe Center (transportation will be available).

Prerequisites - Meet LSCS qualifications

Term: Year **Credit:** 2.0 State Elective Credit

This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria. Expected cost to student for this course: \$300. This course will fill 3 class periods in the student's schedule.

5137 Agricultural Equipment Design and Fabrication 12

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

Prerequisites - Principles of Agriculture, Food, and Natural Resources, Agricultural Mechanics & Metal Technologies, Agricultural Structures Design and Fabrication

Term: Year **Credit:** 2.0 State Elective Credit

Certification: American Welding Society D1.1 (Structural Steel), D9.1 (Sheet Metal Welding)

5138 Project-Based Research: Agricultural Mechanics 12

This course is designed as an extension of the students project and research in the pathway and final course in the sequent to become a completer. Must develop a teacher approved project and requires independent learning and self motivation in a project-based learning environment.

Prerequisites - Principles of Agriculture, Food and Natural Resources and successful completion of at least 2 other courses in the pathway.

Term: Year **Credit:** 1.0 State Elective Credit

5141 Floral Design 10-12

This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students will develop respect for the traditions and contributions of diverse cultures. Students will respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations.

Prerequisites - None

Certification: Texas State Florist's Association Knowledge Based Floral Certification

Term: Year **Credit:** 1.0 Fine Arts State Credit or State Elective Credit

Certification: Texas State Florist's Association-Knowledge Based Floral Certification

5142 Advanced Floral Design 11-12

In this course, students build on the knowledge from the Floral Design course and are introduced to more advanced floral design concepts, with an emphasis on specialty designs and specific occasion planning. This course

focuses on building skills in advanced floral design and providing students with a thorough understanding of the design elements and planning techniques used to produce unique specialty floral designs that support the goals and objectives of a specific occasion or event

Prerequisites - Principles of Agriculture, Food and Natural Resources and Floral Design

Term: Year **Credit:** 1.0 State Elective Credit

Certification: Texas State Florist's Association Level 1 Floral Certification

This course does NOT receive advanced weighting in the GPA

5143 Horticultural Science 10-12

Focuses on the identification, production and care of plants. The students will study propagation, fertilizing, transplanting, and growing various plants. Students will also investigate the various career pathways within the horticulture industry.

Prerequisites – Principles of Agriculture, Food, and Natural Resources

Term: Year **Credit:** 1.0 State Elective Credit

This course does not receive Science credit

5145 Greenhouse Operation and Production 10-12

Develops an understanding of greenhouse production techniques and practices. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.

Prerequisites – Principles of Agriculture, Food and Natural Resources

Term: Year **Credit:** 1.0 State Elective Credit

5144 Plant and Soil Science 12

Students will investigate the importance of plant and soil science and its relationship affecting the production of food and fiber industry. Students will assess the plant ecosystem, erosion processes, petroleum energy, crop production, and genetically engineered plants and their importance to solving

world hunger. This class will have 40% of class time instruction to conduct field experiments and laboratory investigations.

Prerequisites - Principles of Agriculture, Food and Natural Resources

Term: Year **Credit:** 1.0 Science State Credit or State Elective Credit

This course does NOT receive advanced weighting in the GPA

5146 Project Based Research-Plant Science 12

This course is designed as an extension of the students project and research in the pathway and final course in the sequent to become a completer. Must develop a teacher approved project and requires independent learning and self motivation in a project based learning environment.

Prerequisites - Principles of Agriculture, Food and Natural Resources and successful completion of at least 2 other courses in the pathway.

Term: Year **Credit:** 1.0 State Elective Credit



Architecture and Construction Career Cluster

The Architecture and Construction Career Cluster focuses on designing, planning, managing, building and maintaining the built environment. Architecture and construction provides and overview of architecture, interior design and construction management.

Program of Study:

Architectural Design			
Course #	Level	Course Name	Credit (s)
5451	2	Interior Design I * LCHS only*	1
5452	3	Interior Design II * LCHS only*	2
5453/5454	4	Practicum in Architectural Design *LCHS only*	2-3
5341	4	Career Preparation I	3

Architecture and Construction

5451 Interior Design I *LCHS only* 9-12

This technical course addresses the needs of individuals by enhancing the environments in which they live and work. Students will use knowledge and skills related to interior and exterior environments, construction, and furnishings to make wise consumer decisions, increase productivity, and prepare for careers in the interior design field.

Prerequisites - None

Term: Year **Credit:** 1.0 State Elective Credit

5452 Interior Design II *LCHS only* 10-12

This technical laboratory course includes the knowledge of the employability characteristics, principles, process, technologies, communication, tools, equipment, and materials related to interior spatial design.

Prerequisites - Interior Design I

Term: Year **Credit:** 2.0 State Elective Credit

5453/5454 Practicum in Architectural Design 11-12
LCHS only

Practicum in Architectural Design is an occupational and lab based specific course designed to provide technical instruction in architectural design. Safety and career opportunities are included in addition to work ethics and architectural design study. Certification opportunity provided in this course.

Prerequisites - Interior Design I, and Interior Design II

Term: Year **Credit:** 2.0 or 3.0 State Elective Credit

Beginning with the graduating class of 2026 this course will receive advanced weighting in the GPA.

5341 Career Preparation I 11-12

This work-based learning program will prepare students with a variety of skills for a fast-changing workplace. Students will learn 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. Students MUST be sixteen (16) years of age. Students are normally of junior or senior standings and MUST have reliable transportation. Students MUST have/find paid employment within the first ten (10) days of school. Students MUST work an average of 15 hours per week.

Prerequisites - Required Paperwork Must Be Completed and Returned By Due Date

Term: Year **Credit:** 3.0 State Elective Credit

Arts, Audio/Video Technology and Communication Career Cluster



The Arts, A/V Technology and Communications (AAVTC) Career Cluster® focuses on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services. Careers in the AAVTC career cluster require a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication.

Programs of Study:

Digital Communications			
Course #	Level	Course Name	Credit (s)
5210	1	Principles of Arts, Audio/Video Technology and Communications	1
0561	1	Professional Communications	0.5
5211/5217	2	Audio/Video Production I/Lab	1-2
5212/5218	3	Audio/Video Production II/Lab	1-2
5213	4	Practicum in Audio Video Production	2
5215	4	Practicum in Entrepreneurship	2

Graphic Design and Multimedia Arts

Course #	Level	Course Name	Credit (s)
5210	1	Principles of Arts, Audio/Video Technology & Communications	1
5441	2	Fashion Design I *LCHS only*	1
5214	2	Graphic Design and Illustration I	1
5442	3	Fashion Design II *LCHS only*	2
5216	3	Graphic Design and Illustration II	1
5215	4	Practicum in Entrepreneurship	2
5341	4	Career Preparation I	3

Graphic Design and Multimedia Arts (Yearbook Pathway)

Course #	Level	Course Name	Credit (s)
5210	1	Principles of Arts, Audio/Video Technology and Communication	1
0581	2	Yearbook 1 (Graphic Design and Illustration I)	1
0582	3	Yearbook 2 (Graphic Design and Illustration II)	1
0611	2	Photojournalism 1 (Commercial Photography I)	1
0612	3	Photojournalism 2 (Commercial Photography II)	1
5215	4	Practicum in Entrepreneurship	2

Arts, Audio/Video Technology and Communication

5210 **Principles of Arts, AV Technology and Communication** 9-11

Students will be expected to understand arts, audio/video technology, and communications systems. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.

Prerequisites - None

Term: Year **Credit:** 1.0 State Elective Credit

0561 **Professional Communication** 9-12

Students will understand and develop skills in communications that are fundamental to all learning and to all levels of human interactions. Students will be expected to identify, analyze, develop, and evaluate communication

skills needed for professional and social success in interpersonal situations, group interactions, and personal and professional presentations. This course satisfies the state speech requirement.

Prerequisites - None

Term: Semester **Credit:** 0.5 State Elective Credit

5211/TBD **Audio Video Production I/Lab** 10-12

Students will be expected to develop an understanding of the industry with a focus on pre-production, production, and post-production audio and video activities. Students will be responsible for costs of additional supplies.

Prerequisites - Principles of Arts, AV Technology

Term: Year **Credit:** 1.0-2.0 State Elective Credit

Certification: Adobe Certified Professional In Visual Design Using Adobe Photoshop, Adobe Certified Professional in Digital Video Publication Using Adobe Premiere Pro, Adobe Certified Professional in Print and Digital Media Publication Using Adobe InDesign

5212/TBD **Audio Video Production II/Lab** 11-12

Students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production, and post-production audio and video activities. This course will be implemented in an advanced audio and video format, including both audio and video, and learning Adobe Premiere Pro.

Prerequisites - Principles of Arts, AV Technology, Audio Video Production I

Term: Year **Credit:** 1.0-2.0 State Elective Credit

Certification: Adobe Certified Professional In Visual Design Using Adobe Photoshop, Adobe Certified Professional in Digital Video Publication Using Adobe Premiere Pro, Adobe Certified Professional in Print and Digital Media Publication Using Adobe InDesign

5213 **Practicum in Audio Video Production** 12

Students in this class will develop advanced knowledge and skills in the field of audio and video production. Students will develop their portfolio of work that will assist them in gaining entry level employment, earning admittance into college film/video, television/radio broadcasting, and audio production programs, as well as securing post-secondary scholarships. Additional time beyond regular school hours is required.

Prerequisites - Principles of Arts, AV Technology, AV Production I and II

Term: Year **Credit:** 2.0 State Elective Credit

Certification: Adobe Certified Professional In Visual Design Using Adobe Photoshop, Adobe Certified Professional in Digital Video Publication Using Adobe Premiere Pro, Adobe Certified Professional in Print and Digital Media Publication Using Adobe InDesign

Beginning with the graduating class of 2026 this course will receive advanced weighting in the GPA.

0581 **Yearbook 1 (Graphic Design & Illustration I)** 10-12

Within this context, in addition to developing 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 fundamental elements and graphic design and illustration. This course will use the graphic design & Illustration elements learned and apply to the design of the yearbook..

Prerequisites - Recommended: Principles of Arts, A/V Technology

Term: Year **Credit:** 1.0 State Elective Credit

0582 **Yearbook 2 (Graphic Design & Illustration II)** 10-12

In addition to developing the advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster®, students will be expected to develop a more advanced understanding of the industry with a focus on advanced elements or graphic design concepts. This course will use the graphic design & Illustration elements learned and apply to the design of the yearbook..

Prerequisites - Yearbook 1 (Graphic Design & Illustration I)

Term: Year **Credit:** 1.0 State Elective Credit

5214 **Graphic Design & Illustration I** 10-12

Within this context, in addition to developing 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 fundamental elements and principles of visual art and design.

Prerequisites - Principles of Arts, AV Technology

Term: Year **Credit:** 1.0 State Elective Credit

Certification: Adobe Certified Professional in Visual Design Using Adobe Photoshop, Adobe Certified Professional in Graphic Design and Illustration Using Adobe Illustrator, Certified Professional in Digital Video Using Adobe Premiere Pro, Adobe Certified Professional in Print and Digital Media Publication Using Adobe InDesign

0611 **Photojournalism 1 (Commercial Photography I)** 10-12

This course develops students' skills and knowledge in commercial photography projects. Students will also develop the knowledge and skills necessary to analyze customer needs and preferences, apply the principles of art to photographs, and develop photographs using a variety of production processes.

Prerequisites: Recommended: Principles of Arts, Audio/Video Technology and Communication and/or Yearbook 1(Graphic Design and Illustration I)

Term: Year **Credit:** 1.0 State Elective Credit

Certification: Adobe Certified Professional in Visual Design Using Adobe Photoshop, Adobe Certified Professional in Graphic Design and Illustration Using Adobe Illustrator, Certified Professional in Digital Video Using Adobe Premiere Pro, Adobe Certified Professional in Print and Digital Media Publication Using Adobe InDesign

TBD **Graphic Design & Illustration II** 10-12

Illustration spans all aspects of the advertising and visual communications industries. Students will be expected to develop an advanced understanding of the industry with a focus on mastery of content knowledge and skills related to the visual art and design industry including learning Adobe InDesign.

Prerequisites - Principles of Arts, AV Technology, Graphic Design and Illustration I

Term: Year **Credit:** 1.0 State Elective Credit

Certification: Adobe Certified Professional in Visual Design Using Adobe Photoshop, Adobe Certified Professional in Graphic Design and Illustration Using Adobe Illustrator, Certified Professional in Digital Video Using Adobe Premiere Pro, Adobe Certified Professional in Print and Digital Media Publication Using Adobe InDesign

0612 **Photojournalism 2 (Commercial Photography II)** 11-12

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

Prerequisites: Photojournalism 1 (Commercial Photography I)

Term: Year **Credit:** 1.0 State Elective Credit

Certification: Adobe Certified Professional in Visual Design Using Adobe Photoshop, Adobe Certified Professional in Graphic Design and Illustration Using Adobe Illustrator, Certified Professional in Digital Video Using Adobe Premiere Pro, Adobe Certified Professional in Print and Digital Media Publication Using Adobe InDesign

5441 Fashion Design I *LCHS only* 9-12

This laboratory course focuses on careers in the fashion and textile/apparel industries. Students will be exposed to the apparel production process from design concept to finished product. Course content includes apparel construction, care, and maintenance..

Prerequisites - None

Term: Year **Credit:** 1.0 State Elective Credit

5442 Fashion Design II *LCHS only* 11-12

Students will be expected to develop an advanced understanding of fashion, with emphasis on design and production in more advanced content as a continuation of Fashion Design I.

Prerequisites - Fashion Design I

Term: Year **Credit:** 2.0 State Elective Credit

5215 Practicum in Entrepreneurship 12

Students in this class will develop advanced knowledge and skills in the field of audio and video production. Students will develop their portfolio of work that will assist them in gaining entry level employment, earning admittance into college film/video, television/radio broadcasting, and audio production

programs, as well as securing post-secondary scholarships. Additional time beyond regular school hours is required.

Prerequisites - Principles of Arts, AV Technology, AV Production I and II

Term: Year **Credit:** 2.0 State Elective Credit

Beginning with the graduating class of 2026 this course will receive advanced weighting in the GPA.

5341 Career Preparation I 11-12

This work-based learning program will prepare students with a variety of skills for a fast-changing workplace. Students will learn 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. Students MUST be sixteen (16) years of age. Students are normally of junior or senior standings and MUST have reliable transportation. Students MUST have/find paid employment within the first ten (10) days of school. Students MUST work an average of 15 hours per week.

Prerequisites - Required Paperwork Must Be Completed and Returned By Due Date

Term: Year **Credit:** 3.0 State Elective Credit

Business, Marketing and Finance Career Cluster

The Business, Marketing, and Finance Career Cluster® focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations.

Programs of Study:

Accounting and Financial Services			
Course #	Level	Course Name	Credit (s)
5310	1	Principles of Business, Marketing, and Finance	1
5311	1	Business Information Management I (BIM I)	1
5320	1	Money Matters or	1
5321	2	Accounting I	1
5320	1	Money Matters or	1
5321	2	Accounting I or	1
5322	3	Accounting II	1
5322	3	Accounting II	1
1035	2	Financial Mathematics	1
5215	4	Practicum in Entrepreneurship	2
5341	4	Career Preparation I	3

Business Management

Course #	Level	Course Name	Credit (s)
5310	1	Principles of Business, Marketing, and Finance	1
5311 5332	1 2	Business Information Management I (BIM I) or Business Law	1 1
5312 5331	2 3	Business Information Management II (BIM II) or Business Management	1 1
5215 5341	4 4	Practicum in Entrepreneurship Career Preparation I	2 3

Marketing and Sales

Course #	Level	Course Name	Credit (s)
5310	1	Principles of Business, Marketing, and Finance	1
5333 5334	3 3	Advertising AND Social Media Marketing	.5 .5
5335 5336	2 3	Sports and Entertainment Marketing I AND Sports and Entertainment Marketing II	.5 .5
5338 5337 5340 5215 5341	3 2 3 4 4	Retail Management *MHS only* Marketing *LCHS only* Fundamentals of Real Estate * LCHS only* Practicum in Entrepreneurship Career Preparation I	1 1 2 2 3

Business, Marketing and Finance

5310 Principles of Business, Marketing and Finance 9-11

Students are introduced to knowledge and skills of economics and private enterprise systems, impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles.

Prerequisites - None

Term: Year **Credit:** 1.0 State Elective Credit

5311 Business Information Management I (BIM I) 9-11

Students will create word-processing documents, spreadsheets, graphs, charts, databases and presentations using appropriate software. Students prepare for the business world and postsecondary education by strengthening computer, communications, analytical, and technical skills.

Students leave this class with the computer skills needed to compete in a technology driven environment as well as a working knowledge about information and business management. Offers opportunity to earn Microsoft Office Systems Certification via exam. This course is a part of the CTE pathways.

Prerequisites - None

Term: Year **Credit:** 1.0 State Elective Credit

5312 Business Information Management II (BIM II) 10-12

Students will create complex word-processing documents, sophisticated spreadsheets, graphs, charts and presentations using appropriate multimedia software. Students prepare for the business world and postsecondary education by strengthening computer, communications, analytical, and technical skills. Students leave this class with an electronic digital portfolio, technical skill competencies and possibly licensure or certifications. Offers opportunity to earn Microsoft Office Systems Certifications via exam.

Prerequisites - Business Information Management I

Term: Year **Credit:** 1.0 State Elective Credit

5320 Money Matters 10-12

Students will investigate global economics with emphasis on the free enterprise system and its impact on consumers and business. 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.

Prerequisites - Principles of Business, Marketing, Finance

Term: Year **Credit:** 1.0 State Elective Credit

5321 Accounting I 10-12

Students investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students reflect on this knowledge as they engage in the process of recording, classifying, summarizing, analyzing, and communicating accounting information. Students formulate and interpret financial information for use in management decision making.

Prerequisites - Principles of Business, Marketing, Finance

Term: Year **Credit:** 1.0 State Elective Credit

Certification: Accounting Basic, Accounting Foundations, Intuit Quickbooks Microsoft Office Specialist: Microsoft Excel Expert (Excel and Excel 2019)

5322 Accounting II 11-12

Students continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students reflect on this knowledge as they engage in various managerial and cost accounting activities. Students formulate and interpret financial information for use in management decision making. This course offers an opportunity to earn Quickbooks Certification.

Prerequisites - Accounting I

Term: Year **Credit:** 1.0 State Elective Credit

Certification: Accounting Basic, Accounting Foundations, Intuit Quickbooks, Microsoft Office Specialist: Microsoft Excel Expert (Excel and Excel 2019)

1035 Financial Mathematics 11-12

This is a course about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors.

Prerequisites - Algebra 1 and Geometry

Term: Year **Credit:** 1.0 State Math Credit or State Elective credit

5331 Business Management 10-12

Students develop a foundation in the economic, financial, technological, international, social and ethical aspects of business to become competent managers, employees, and entrepreneurs. Students incorporate a broad range of knowledge that includes legal, managerial, marketing, financial, ethical and international dimensions of business to make appropriate management decisions.

Prerequisites - Principles of Business, Marketing & Finance

Term: Year **Credit:** 1.0 State Elective Credit

5332 Business Law 11-12

Students analyze the evolution and development of laws that govern business in our society. Students apply technical skills to address business applications of contemporary legal issues and analyze the social responsibility of business and industry.

Prerequisites - Principles of Business, Marketing, and Finance and/or Principles of Law, Public Safety, Corrections, and Security depending on program of study

Term: Year **Credit:** 1.0 State Elective Credit

5333 Advertising 10-12

Advertising and Sales Promotion are key elements to any business that markets a product or service. Students will discover the goals and objectives of various types of advertising and promotion, identify and analyze advertisements and promotional campaigns, select media and develop advertisements. Students will learn about the different types of advertising media, measure the effectiveness of that media and determine the costs involved. Students will learn about the promotional mix and well as the importance of public relations.

Prerequisites - Principles of Business, Marketing & Finance

Term: Semester **Credit:** 0.5 State Elective Credit

5334 Social Media Marketing 10-12

A course designed to look at the rise of social media and how marketers are integrating social media tools in their overall marketing strategy. The course will investigate how the marketing community measures success in the new world of social media. Students will manage a successful social media presence for an organization, understand techniques for gaining customer and consumer buy-in to achieve marketing goals, and properly select social media platforms to engage consumers and monitor and measure the results of these efforts.

Prerequisites - Principles of Business Marketing, Finance

Term: Semester **Credit:** 0.5 State Elective Credit

Certification: Stukent Social Media Marketing Certification

5338 Retail Management *MHS only* 10-12

Retail management focuses on the distribution and selling of products to consumers using various vending points such as chain stores, department stores, stand-alone stores, and various online markets. The course highlights the everyday mechanisms necessary to operate a successful retail establishment. The student is taught to evaluate methods for promoting merchandise, supervising employees, handling customer needs, and maintaining inventories.

Prerequisites - Principles of Business, Marketing & Finance

Term: Year **Credit:** 1.0 State Elective Credit

5337 Marketing *LCHS only* 10-12

Marketing explores the seven core functions of marketing including marketing planning, marketing-information management, pricing, product/service management, channel management, and selling. Students will demonstrate knowledge in hands-on projects which may include conducting research, creating a promotional plan, pitching a sales presentation, and introducing an idea for a new product/service.

Prerequisites - Principles of Business, Marketing & Finance

Term: Year **Credit:** 1.0 State Elective Credit

5335 **Sports and Entertainment Marketing I** 10-12
5336 **Sports and Entertainment Marketing II** 10-12

A specialized course designed to offer students an opportunity to gain knowledge and develop skills related to the growing sports and entertainment industries. Students will develop skills in the area of facility design, merchandising, advertising, public relations/publicity, event marketing, sponsorship, ticket distribution, and career opportunities as they relate to the sports and entertainment industries.

Prerequisites - Principles of Business, Marketing & Finance. Courses to be taken sequentially

Term: Semester **Credit:** 0.5 State Elective Credit

5340 **Fundamentals of Real Estate *LCHS only** 12

This is a one year course designed for students who would like to get a license to sell real estate. This is a state licensing program in cooperation with the Texas Real Estate Commission (TREC). Students must complete 180 hours of online coursework from Pioneer School Real Estate. Upon the satisfactory completion of the 180 hours, students are expected to take the TREC exam to become a licensed real estate agent.

Prerequisites - Principles of Business, Marketing & Finance, and one additional business credit

Term: Year **Credit:** 2.0 State Elective Credit

5341 **Career Preparation I**

11-12

This work-based learning program will prepare students with a variety of skills for a fast-changing workplace. Students will learn 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. Students **MUST** be sixteen (16) years of age. Students are normally of junior or senior standings and **MUST** have reliable transportation. Students **MUST** have/find paid employment within the first ten (10) days of school. Students **MUST** work an average of 15 hours per week.

Prerequisites - Required Paperwork Must Be Completed and Returned By Due Date/

Term: Year **Credit:** 3.0 State Elective Credit

Beginning with the graduating class of 2026 this course will receive advanced weighting in the GPA.

5215 **Practicum in Entrepreneurship**

12

This course provides students the opportunity to apply classroom learnings and experiences to real-world business problems and opportunities, while expanding their skill sets and professional relationships as a real or simulated business owner versus the experience one would have as an employee. Students will prepare for an entrepreneurial career in their area of interest in their career cluster and build on and apply the knowledge and skills gained from courses taken in an array of career areas. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of the student's need for work-based learning experience.

Prerequisites - Successful completion of Principles of Business Marketing, & Finance and 2 more courses within the Pathway

Term: Year **Credit:** 2.0 State Elective Credit

Certification: Marketing and Sales program of study: Small Business and Entrepreneurship,

Accounting and Financial program of study: Microsoft Office Specialist: Microsoft Access Expert (Access and Access 2019)

Hospitality and Tourism Career Cluster

The Hospitality and Tourism Career Cluster® focuses on the management, marketing, and operations of restaurants and other food/beverage services, lodging, attractions, recreation events, and travel-related services. Students acquire knowledge and skills focusing on communication, time management, and customer service that meet industry standards. Students will explore the history of the hospitality and tourism industry and examine characteristics needed for success.



Program of Study:

Culinary Arts			
Course #	Level	Course Name	Credit (s)
5400	1	Principles of Hospitality & Tourism	1
5431	1	Introduction to Culinary Arts	1
5432	2	Culinary Arts	2
5433	3	Advanced Culinary Arts or	2
5215	4	Practicum in Entrepreneurship or	2
5341	4	Career Preparation I	3

Culinary Arts

5400 **Principles of Hospitality and Tourism** 9-11

This course provides an introduction to the hospitality and tourism industry. Topics include lodging, travel and tourism, recreation, amusements, attractions, resorts, and restaurant and food beverage service.

Prerequisites - None

Term: Year **Credit:** 1.0 State Elective Credit

5431 **Introduction to Culinary Arts** 10-12

This course is for students interested in pursuing a career in the food service industry. This classroom and laboratory based course will provide insight into health and safety, nutrition and wellness, industry management, and food production skill. This course emphasizes professional standards and employability skills.

Prerequisites - Principles of Hospitality and Tourism

Term: Year **Credit:** 1.0 State Elective Credit

5432 **Culinary Arts** 11-12

This laboratory-based course begins with the fundamentals and principles of the art of food preparation and includes management and production skills and techniques. Students will receive a national sanitation certification, ServSafe Certification. The knowledge and skills required for careers in the restaurant, food, and beverage industry are emphasized..

Prerequisites - Intro to Culinary Arts

Term: Year **Credit:** 2.0 State Elective Credit

Certification: ServSafe Food Handler

5433 **Advanced Culinary Arts** 12

This laboratory-based course is designed to be a continuation of the Culinary Arts program. Students continue to refine their knowledge and skills required for careers in the restaurant, food, and beverage industry. Students can pursue a national sanitation certification and other appropriate industry certifications. Laboratory activities involve food production in a professional setting.

Prerequisites - Culinary Arts

Term: Year **Credit:** 2.0 State Elective Credit

Certification: ServSafe Restaurant Manager

This course does NOT receive advanced weighting in the GPA.

5215 **Practicum in Entrepreneurship** 12

This course provides students the opportunity to apply classroom learnings and experiences to real-world business problems and opportunities, while expanding their skill sets and professional relationships as a real or simulated business owner versus the experience one would have as an employee. Students will prepare for an entrepreneurial career in their area of interest in their career cluster and build on and apply the knowledge and skills gained from courses taken in an array of career areas. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of the student's need for work-based learning experience.

Prerequisites - Successful completion of Principles of Hospitality & Tourism and 2 more courses within the Pathway

Term: Year **Credit:** 2.0 State Elective Credit

Beginning with the graduating class of 2026 this course will receive advanced weighting in the GPA.

5341 Career Preparation I

11-12

This work-based learning program will prepare students with a variety of skills for a fast-changing workplace. Students will learn 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. Students MUST be sixteen (16) years of age. Students are normally of junior or senior standings and MUST have reliable transportation. Students MUST have/find paid employment

within the first ten (10) days of school. Students MUST work an average of 15 hours per week.

Prerequisites - Required Paperwork Must Be Completed and Returned By Due Date

Term: Year **Credit:** 3.0 State Elective Credit

Manufacturing Career Cluster

The Manufacturing Career Cluster® focuses on planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.



Program of Study:

Advanced Manufacturing and Machinery Mechanics

Course #	Level	Course Name	Credit (s)
5817	1	Principles of Applied Engineering	1
5807	2	Robotics I	1
5808	3	Robotics II	1
5818	3	Engineering Design & Presentation I	1
5815/5819	4	Practicum in Manufacturing	2-3
5341	4	Career Preparation I	3

Manufacturing

5817 Principles of Applied Engineering

9-10

Principles of Applied Engineering provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will understand the various fields of engineering and will be able to make informed career decisions. Further, students will have worked on a design team to develop a product or system. Students will use multiple software applications to prepare and present course assignments.

Prerequisites -None

Term: Year **Credit:** 1.0 State Elective Credit

5807 Robotics I

10-11

The objective of this course is to introduce the student to basic programming as well as problem solving strategies. This course will involve students in the development, building and programming of a robot. Students will work hands-on in teams to design, build, program and document their progress. Topics may include motor control, gear ratios, torque, friction, sensors, timing, program loops, logic gates, decision-making, timing sequences, propulsion systems and binary number systems. Student designed robots will be programmed to compete in various courses as developed by VEX.

Prerequisites - Principles of Applied Engineering

Term: Year **Credit:** 1.0 State Elective Credit

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses. Requires completed paperwork by posted date. See Robotics teacher for questions concerning the course. Beginning with the graduating class of 2026 this course will no longer receive advanced weighting in the GPA.

5808 Robotics II

11-12

The purpose of the Advanced Robotics course is to extend and build on the skills and knowledge of students who have completed the introductory robotics course. Robotics II is built around the extensive understanding of robotic systems and the development of workplace competencies. The main focus of the class involves solving engineering design problems. Students enrolled in this course will prepare and compete in VEX Competitions at a higher level.

Prerequisites - Principles of Applied Engineering and Robotics I

Term: Year **Credit:** 1.0 State Elective Credit

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses. Requires completed paperwork by posted date. See Robotics teacher for questions concerning the course.

5818 Engineering Design and Presentation I

11-12

This course is a continuation of the Robotics II course is to extend and build on the skills and knowledge of students who have completed the first two robotics courses. EDP is built around the extensive understanding of robotic systems and the development of workplace competencies. Students enrolled in this course will prepare and compete in VEX Competitions at a higher level.

Prerequisites - Principles of Applied Engineering, Robotics I, and Robotics II

Term: Year **Credit:** 1.0 State Elective Credit

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses. Requires completed paperwork by posted date. See Robotics teacher for questions concerning the course.

5815

Practicum in Manufacturing

12

5819

This course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technology education courses in the Advanced Manufacturing and Machinery Mechanics (Robotics) pathway.

Prerequisites - Principles of Applied Engineering, Robotics I, Robotics II

Term: Year **Credit:** 2.0 or 3.0 State Elective Credit

Certification: OSHA 30 Hour General* *IBC sunseting 8/31/24

This course receives advanced weighting in the GPA. This course will fill 2 class periods in the student's schedule.

5341 Career Preparation I

11-12

This work-based learning program will prepare students with a variety of skills for a fast-changing workplace. Students will learn 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. Students MUST be sixteen (16) years of age. Students are normally of junior or senior standings and MUST have reliable transportation. Students MUST have/find paid employment within the first ten (10) days of school. Students MUST work an average of 15 hours per week.

Prerequisites - Required Paperwork Must Be Completed and Returned By Due Date **Term:** Year **Credit:** 3.0 State Elective Credit

Public Service Endorsement

Education and Training Career Cluster

The Education and Training Career Cluster® focuses on planning, managing, and providing education and training services and related learning support services. All parts of courses are designed to introduce learners to the various careers available within the Education and Training career cluster.



Program of Study

Teaching and Training			
Course #	Level	Course Name	Credit (s)
5420	1	Principles of Education and Training	1
5410	1	Principles of Human Services	1
5426	2	Child Development	1
5422	3	Instructional Practices	2
5423/5427	4	Practicum in Education and Training	2-3
5341	4	Career Preparation I	3

Education and Training

5420 Principles of Education and Training 9-11

This course is designed to introduce learners to the various careers available within the Education and Training Career Cluster®. Students use self-knowledge as well as educational and career information to analyze various careers within the Education and Training Career Cluster®. Students will develop a graduation plan that leads to a specific career choice in the student's interest area.

Prerequisites - None

Term: Year **Credit:** 1.0 State Elective Credit

5410 Principles of Human Services 9-11

Principles of Human Services is an introductory course that will enable students to investigate careers in the Human Services Career Cluster, including counseling and mental health, early childhood development, family and community, personal care, and consumer 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.

Prerequisites - None

Term: Year **Credit:** 1.0 State Elective Credit

5426 Child Development 10-12

This 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.

Prerequisites - Principles of Human Services and/or Principles of Education and Training depending on program of study

Term: Year **Credit:** 1.0 State Elective Credit

5422 Instructional Practices in Education and Training 11-12

A field-based internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching practices. Students will work under the joint direction and supervision of a teacher who has expertise in the areas of child development and educational methodology and an exemplary educator who is working in an instruction role in an elementary/middle/high school setting. Students will learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers. Student MUST provide transportation.

Prerequisites - Principles of Education Training, Required Paperwork Must Be Completed and Returned By Due Date/Criminal Background Check

Term: Year **Credit:** 2.0 State Elective Credit

Certification: Educational Aide I

5423 **Practicum In Education and Training** 12
5427

This is a field-based internship that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students are under the joint direction and supervision of both a teacher and exemplary educators in direct instructional roles with elementary-, middle school- and high school-aged students. Student MUST provide transportation..

Prerequisites - Principles of Education and Training, Instructional Practices in Education & Training/Required Paperwork Must Be Completed and Returned By Due Date/Criminal Background Check

Term: Year **Credit:** 2.0 or 3.0 State Elective Credit

Certification: Educational Aide I

Beginning with the graduating class of 2026 this course will receive advanced weighting in the GPA.

5424 **Project Based Research: Peer Coaching** 11-12

This course is designed to promote an inclusive educational environment for at-risk and special education inclusion students. Enrolled students participate in "reverse inclusion" in self-contained classes. It is a course where positive peers make a positive impact in their fellow peer's lives.

Prerequisites - A-B Average/No Discipline Concerns

Term: Year **Credit:** 1.0 State Elective Credit

5341 **Career Preparation I** 11-12

This work-based learning program will prepare students with a variety of skills for a fast-changing workplace. Students will learn 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. Students MUST be sixteen (16) years of age. Students are normally of junior or senior standings and MUST have reliable transportation. Students MUST have/find paid employment within the first ten (10) days of school. Students MUST work an average of 15 hours per week.

Prerequisites - Required Paperwork Must Be Completed and Returned By Due Date **Term:** Year **Credit:** 3.0 State Elective Credit

Health Science Career Cluster

The Health Science Career Cluster® focuses on planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.

Program of Study

Healthcare Therapeutic			
Course #	Level	Course Name	Credit (s)
5510	1	Principles of Health Science	1
5512	2	Medical Terminology	1
5513/5513C	3	Health Science Theory/Health Science Theory Clinical or	1-2
1551	3	Anatomy & Physiology or	1
5515	3	Pathophysiology	1
1551	3	Anatomy & Physiology or	1
5515	3	Pathophysiology or	1
5526/5525	4	Practicum in Health Science- CCMA or	2-3
5517/5516	4	Practicum in Health Science- PCT or *LCHS only*	2-3
5519	4	Practicum in Health Science- EMT *MHS only*	2-3

Health Science

5510 Principles of Health Science 9-11

The Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the healthcare industry. Students will achieve comprehension of medical vocabulary pertaining to the body systems, medical procedures, anatomy and physiology & pathophysiology.

Prerequisites - None

Term: Year **Credit:** 1.0 State Elective Credit

5512 Medical Terminology 10-12

This course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, root words, singular and plural forms, and medical abbreviations. Students will study the systems of the body learning medical terminology related to each system. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

Prerequisites - Principles of Health Science or (may be taken concurrently)

Term: Year **Credit:** 1.0 State Elective Credit

5513 Health Science Theory 11-12 5513C Health Science Theory Clinical

This course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will achieve comprehension of medical vocabulary pertaining to the body systems, medical procedures, anatomy and physiology & pathophysiology. Students will have hands-on experiences for continued knowledge and skill development.

Prerequisites - Principles of Health Science and Biology Recommended: Medical Terminology

Term: Year **Credit:** 1.0-2.0 State Elective Credit

Certification: Phlebotomy Technician, Certified EKG Technician

5515 Pathophysiology 11-12

Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students also study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology.

Prerequisites - Biology and Chemistry

Term: Year **Credit:** 1.0 Science State Credit or State Elective Credit

1551 Anatomy and Physiology 11-12

Extends understanding of the structure and function of the human body. Students will explore physiological systems and associated pathologies. Higher order thinking is stressed through assessment and synthesis of the anatomical knowledge combined with exposure to clinical analysis. Principles of physiology will be applied to human health and well-being.

Prerequisites - Biology and a second science credit

Term: Year **Credit:** 1.0 Science State Credit or State Elective Credit

5516/ Practicum In Health Science- Certified 12 5525 Clinical Medical Assistant

This course is designed to prepare students for an entry level position as a Certified Medical Assistant in a private office or clinic. Students will have a broad foundation of the healthcare field with an emphasis on professionalism, communication, behaviors and duties in a medical environment. There will be rotations through local facilities and clinics that will encourage and enhance all skills. Students may be required to pass a background check and drug screen. Students may be requested to show proof of a current flu vaccination and negative TB test. Students must have a driver's license, provide their own transportation, and a copy of insurance. Students are responsible for these extra costs: extra set of scrubs and optional stethoscope.

Prerequisites - Health Science Theory/Clinical, Anatomy and Physiology and/or Pathophysiology are highly encouraged

Term: Year **Credit:** 2.0-3.0 State Elective Credit

Certification: Certified Clinical Medical Assistant (CCMA), Phlebotomy Technician, Certified EKG Technician

Beginning with the graduating class of 2026 this course will receive advanced weighting in the GPA.

5517/ Practicum In Health Science- Patient Care 12 5516 Technician *LCHS only*

A patient care technician is a healthcare professional who supports nurses, doctors and other medical staff in caring for patients during hospital stays or other visits. These professionals are responsible for making patients feel comfortable and cared for, which often requires them to provide emotional support and guidance to patients during their hospital stay or clinic visit. Some additional responsibilities of a patient care technician may include: providing patient care including bathing and feeding, conducting regular patient rounds and meeting with the patient's family members when necessary, monitoring patients food and liquid intake, making note of any irregularities, obtaining specimens, conducting tests and recording results., checking blood pressure, heart rate and pulse on a routine basis, and escorting patients to x-rays and other diagnostic imaging procedures.

Prerequisites - Health Science Theory/Clinical, and Anatomy and Physiology and/or Pathophysiology are highly encouraged

Term: Year **Credit:** 2.0-3.0 State Elective Credit

Certification: Patient Care Technician (PCT), Phlebotomy Technician, Certified EKG Technician

This course cannot be taken as a pass/fail

Beginning with the graduating class of 2026 this course will receive advanced weighting in the GPA.

5519 Practicum in Health Science: Emergency 12 Medical Technician *MHS only*

Preparation for certification as an Emergency Medical Technician (EMT). Includes all the skills necessary to provide emergency medical care at a basic life support level with an emergency service or other specialized services. Enrolled students must successfully pass a background check and drug screen in order to be eligible to take the EMT certification exam. Students must purchase uniforms (shirt, pants, boots) and provide proof of required immunizations.

Prerequisites- Health Science Theory/Clinical, and Anatomy and Physiology highly recommended

Term: Year **Credit:** 2.0 State Elective Credit

Certification: Emergency Medical Technician

Course fee of \$250

Human Services Career Cluster

The Human Services Career Cluster® focuses on preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care services, and consumer services.



Programs of Study:

Family and Community Services			
Course #	Level	Course Name	Credit (s)
5410	1	Principles of Human Services	1
H510	2	Lifetime, Nutrition & Wellness and (Offered at JH only)	0.5
H511	1	Dollars and Sense (Offered at JH only)	0.5
0561	1	Professional Communications	0.5
5411	3	Counseling and Mental Health	1
5426	2	Child Development	1
5412	3	Family and Community Services	1
5413	4	Project Based Research- Community Service	1

Cosmetology			
Course #	Level	Course Name	Credit (s)
5410	1	Principles of Human Services	1
5463	2	Introduction to Cosmetology	1
5461	3	Cosmetology I	2
5462	4	Cosmetology II	3

Human Services

5410 Principles of Human Services 9-11

Principles of Human Services is an introductory course that will enable students to investigate careers in the Human Services Career Cluster, including counseling and mental health, early childhood development, family and community, personal care, and consumer 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.

Prerequisites - None

Term: Year **Credit:** 1.0 State Elective Credit

0561 Professional Communication 9-12

Students will understand and develop skills in communications that are fundamental to all learning and to all levels of human interactions. Students will be expected to identify, analyze, develop, and evaluate communication skills needed for professional and social success in interpersonal situations, group interactions, and personal and professional presentations. This course satisfies the state speech requirement.

Prerequisites - None

Term: Semester **Credit:** 0.5 State Elective Credit

5411 Counseling and Mental Health 11-12

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

Prerequisites - Principles of Human Services and/or Principles of Law, Public Safety, Corrections and Security

Term: Year **Credit:** 1.0 State Elective Credit

5412 Family and Community Services 11-12

Family and Community Services is a laboratory based course designed to involve students in realistic and meaningful community-based activities through direct service or service learning experiences.

Prerequisites - None - Recommended: Principles of Human Services or concurrently enrolled

Term: Year **Credit:** 1.0 State Elective Credit

5413 Project Based Research- Community Service 12

This is a continuation of the Family and Community Service course which involves community based activities across the district and campus as well as course objectives covered through weekly assignments..

Prerequisites - Family and Community Services

Term: Year **Credit:** 1.0 State Elective Credit

5461 Cosmetology I 11-12

Provides students with the basic specific classroom training needed to achieve their Texas Cosmetology License. Students will also be able to work on outside clientele for hands-on training. Students will receive classroom training needed to prepare them for their Texas Cosmetology Operator Exam from the Texas Department of Licensing and Regulations.

Prerequisites - Introduction to Cosmetology

Term: Year **Credit:** 2.0 State Elective Credits

Course fee of \$250 for each course

5462 Cosmetology II 12

Provides students with the basic specific classroom training needed to achieve their Texas Cosmetology License. Students will also be able to work on outside clientele for hands-on training. Upon completion of Cosmetology II and the required 1000 hours total, students will have received classroom training needed to prepare them for their Cosmetologist Exam from the Texas Department of Licensing and Regulations.

Prerequisites - Cosmetology I

Term: Year **Credit:** 3.0 State Elective Credits

Certification: Cosmetology Operator License

Course fee of \$250 for each course

5463 Introduction to Cosmetology 11-12

Provides students with an overview of the basic specific classroom training needed to achieve their Texas Cosmetology Operator License. Upon completion of their Cosmetology II course and the required 1000 hours total, students will have received classroom training needed to prepare them for their Texas Cosmetology Operator Exam from the Texas Department of Licensing and Regulations.

Prerequisites -None -Recommended: Principles of Human Services

Term: Year **Credit:** 1.0 State Elective Credit

5426 Child Development 10-12

This 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.

Prerequisites - Principles of Human Services and/or Principles of Education and Training depending on program of study

Term: Year **Credit:** 1.0 State Elective Credit

Law and Public Service Career Cluster

The Law and Public Service Career Cluster® focuses on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services.



Program of Study:

Law Enforcement			
Course #	Level	Course Name	Credit (s)
5610	1	Principles of Law, Public Safety, Corrections and Security	1
5611	2	Law Enforcement I	1
5613	3	Correctional Services	1
5411	4	Counseling and Mental Health	1
5415	3	Law Enforcement II or	1
5616	3	Dual Credit Criminal Justice (Lone Star College)	1
5614	4	Forensic Science	1
5619/5620	4	Practicum in Law, Public Safety, Corrections and Security	2-3

Legal Studies			
Course #	Level	Course Name	Credit (s)
5610	1	Principles of Law, Public Safety, Corrections and Security	1
5612	2	Court Systems and Practices	1
5332	2	Business Law	1
5600	4	Project Based Research- Legal Studies	1
5619/5620	4	Practicum in Law, Public Safety, Corrections and Security	2-3
5341/5342	4	Career Preparation I	3

Law and Public Service

5610 **Principles of Law, Public Safety, Corrections and Security**, 9-11

Introduces students to professions in law enforcement, protective services, corrections, firefighting, and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services.

The course provides students with an overview of the skills necessary for careers in law enforcement, fire service, protective services, and corrections.

Prerequisites - None

Term: Year **Credit:** 1.0 State Elective Credit

Comprehensive reading and writing skills are recommended as complex laws are read, analyzed, and applied in this course which attributes to a substantial percentage of a student's evaluation.

5611 Law Enforcement I 10-12

An overview of the history, organization, and functions of local, state, and federal law enforcement. Students will understand the role of constitutional law at local, state, and federal levels; the U.S. legal system; criminal law; and law enforcement terminology and the classification and elements of crime.

Prerequisites - Principles of Law

Term: Year **Credit:** 1.0 State Elective Credit

Comprehensive reading and writing skills are recommended as complex laws are read, analyzed, and applied in this course which attributes to a substantial percentage of a student's evaluation.

5612 Court Systems and Practices 10-12

Court Systems and Practices is an overview of the federal and state court systems. The course identifies the roles of judicial officers and the trial processes from pretrial to sentencing and examines the types and rules of evidence. Emphasis is placed on constitutional laws for criminal procedures such as search and seizure, stop and frisk, and interrogation.

Prerequisites - Principles of Law

Term: Year **Credit:** 1.0 State Elective Credit

Comprehensive reading and writing skills are recommended as complex laws are read, analyzed, and applied in this course which attributes to a substantial percentage of a student's evaluation.

5613 Correctional Services 10-12

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

Prerequisites - Principles of Law, Public Security, Corrections and Security

Term: Year **Credit:** 1.0 State Elective Credit

This course has a substantial writing component, strong writing skills are required. Writing comprises a substantial percentage of the course average. Comprehensive reading skills are a must since complex laws are read, analyzed, and applied to scenarios.

5614 Forensic Science 11-12

Students are introduced to the application of science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Students learn terminology and procedures related to criminal investigation, crime scene processing, crime laboratory, and courtroom presentation using evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, projectiles or weapons utilizing appropriate scientific analysis and procedures. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science.

Prerequisites - Biology and one other Science credit in IPC, Chemistry, Physics, or Anatomy & Physiology

Term: Year **Credit:** 1.0 Science State Credit or State Elective Credit

Comprehensive reading and writing skills are recommended.

5616 Dual Credit Criminal Justice/Law Enforcement II 11-12

An overview of the criminal justice system. Topics include the history and philosophy of criminal justice, the definition of crime, and its nature and impact. First semester students receive credit for CRIJ 1301; second semester for CRIJ 1306.

Prerequisites - Principles of Law, and one other Criminal Justice course, Passing entrance score as per Lone Star College

Term: Year **Credit:** 1.0 State Elective Credit

This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. Comprehensive reading and writing skills are recommended as complex laws are read, analyzed, and applied in this course which attributes to a substantial percentage of a student's evaluation. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

5411 Counseling and Mental Health 11-12

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

Prerequisites - Principles of Law, Public Safety, Corrections and Security and/or Principles of Human Services

Term: Year **Credit:** 1.0 State Elective Credit

5415 Law Enforcement II 11-12

Law Enforcement II provides the knowledge and skills necessary to prepare for a career in law enforcement. Students will understand ethical and legal responsibilities, patrol procedures, first responder roles, telecommunications, emergency equipment operations, and courtroom testimony.

Prerequisites - Principles of Law and Law Enforcement I

Term: Year **Credit:** 1.0 State Elective Credit

Certification: Non-Commissioned Security Officer Level II ,IAED Emergency Telecommunicator

Comprehensive reading and writing skills are recommended as complex laws are read, analyzed, and applied in this course which attributes to a substantial percentage of a student's evaluation.

5332 Business Law 11-12

Students analyze the evolution and development of laws that govern business in our society. Students apply technical skills to address business applications of contemporary legal issues and analyze the social responsibility of business and industry.

Prerequisites - Principles of Business, Marketing, and Finance and/or Principles of Law, Public Safety, Corrections, and Security depending on program of study

Term: Year **Credit:** 1.0 State Elective Credit

5600 Project Based Research- Legal Studies 11-12

This Course is an extension on to the Court Systems Course. The course further identifies the roles of judicial officers and the trial processes from pretrial to sentencing and examines the types and rules of evidence. More emphasis is placed on constitutional laws for criminal procedures such as search and seizure, stop and frisk, and interrogation.

Prerequisites - Principles of Law, Court Systems

Term: Year **Credit:** 1.0 State Elective Credit

5619/ Practicum in Law, Public Safety, 12
5620 Corrections and Security

The practicum course is designed to give students supervised practical application of previously studied knowledge and skills in law, public safety, corrections, and security. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Prerequisites - Principles of Law, in addition to 2 more courses from the pathway. Required Paperwork Must Be Completed and Returned By Due Date

Term: Year **Credit:** 2.0 or 3.0 State Elective Credit

Certification: Non-Commissioned Security Officer Level II, IAED Emergency Telecommunicator

Beginning with the graduating class of 2026 this course will receive advanced weighting in the GPA.

5341 Career Preparation I

11-12

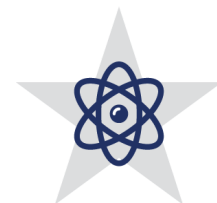
This work-based learning program will prepare students with a variety of skills for a fast-changing workplace. Students will learn employability skills, which include job-specific skills applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Students **MUST** be sixteen (16) years of age. Students are normally of junior or senior standings and **MUST** have reliable transportation. Students **MUST** have/find paid employment within the first ten (10) days of school. Students **MUST** work an average of 15 hours per week.

Prerequisites - Required Paperwork Must Be Completed and Returned By Due Date **Term:** Year **Credit:** 3.0 State Elective Credit

Science, Technology, Mathematics, and Engineering (STEM) Endorsement

Science, Technology, Mathematics, and Engineering- STEM Career Cluster

The Science, Technology, Engineering, and Mathematics (STEM) Career Cluster focuses on planning, managing, and providing, scientific research and professional and technical services, including laboratory and testing services, and research and development services.



Programs of Study

Cybersecurity			
Course #	Level	Course Name	Credit (s)
5811	1	PLTW Fundamentals of Computer Science	1
5820	2	Computer Science *MHS only* or	1
5816	2	AP Computer Science Principles *LCHS only*	1
5812	3	AP Computer Science A or	1
5821	3	Networking or	1
5813	4	PLTW Cybersecurity	1
5814	4	Practicum in Science, Technology, Engineering and Mathematics (STEM)	2
5822	4	Project Based Research- Cybersecurity	1

Engineering			
Course #	Level	Course Name	Credit (s)
5817	1	Principles of Applied Engineering (JH only)	1
5801	1	PLTW Introduction to Engineering Design	1
5802	3	PLTW Civil Engineering and Architecture * MHS only*	1
5803	3	PLTW Aerospace Engineering	1
5804	2	PLTW Digital Electronics * LCHS only*	1
5805	2	PLTW Principles of Engineering/Engineering Science	1
5806	4	PLTW Engineering Design and Development	1
5814	4	Practicum in Science, Technology, Engineering	2

Science, Technology, Mathematics, and Engineering-STEM

5801 PLTW - Introduction To Engineering Design 9-10

Introduction to Engineering Design teaches you the engineering design process through activities, problems, and projects. Topics include engineering notebooks, design processes, prototyping, technical sketching, measurement and statistics, 3D computer solid modeling and reverse engineering.

Prerequisites - Concurrent Enrollment or Successful Completion of Algebra 1

Term: Year **Credit:** 1.0 State Elective Credit

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses. Beginning with the graduating class of 2026 this course will no longer receive advanced weighting in the GPA.

5802 PLTW - Civil Engineering and Architecture *MHS only* 10-12

Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architecture design software.

Prerequisites - PLTW - Introduction To Engineering Design, Score of 4+ on IED End of Course Exam, or Principles of Architecture, Interior Design I

Term: Year **Credit:** 1.0 State Elective Credit

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses. Beginning with the graduating class of 2026 this course will no longer receive advanced weighting in the GPA.

5803 PLTW - Aerospace Engineering 10-12

This course propels students' learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software. They also explore robot systems through projects such as remotely operated vehicles.

Prerequisites - PLTW - Introduction To Engineering Design, Score of 4+ on IED End of Course Exam

Term: Year **Credit:** 1.0 State Elective Credit

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses. Beginning with the graduating class of 2026 this course will no longer receive advanced weighting in the GPA.

5804 PLTW-Digital Electronics *LCHS* only* 10-12

The study of electronic circuits that are used to process and control digital signals as opposed to analog signals that are varying. This distinction allows for greater signal speed and storage capabilities and has revolutionized the world electronics. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras, high definition televisions, etc. The major focus of the DE course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation.

Prerequisites - PLTW - Introduction To Engineering Design, Score of 4+ on IED or CSP End of Course Exam

Term: Year **Credit:** 1.0 State Elective Credit or Math State Credit

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses. Beginning with the graduating class of 2026 this course will no longer receive advanced weighting in the GPA.

5805 **PLTW Principles of Engineering/Engineering Science** 11-12

This survey course exposes students to major concepts they'll encounter in a post-secondary engineering course of study. Topics include mechanisms, energy, statics, materials, software control, and kinematics. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work, and communicate solutions.

Prerequisites - PLTW - Introduction To Engineering Design, Physics or concurrent enrollment, Score of 4+ on IED End of Course Exam

Term: Year **Credit:** 1.0 State Elective Credit or Science State Credit

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

5806 **PLTW - Engineering Design and Development (Capstone)** 12

The knowledge and skills students acquire throughout PLTW Engineering come together in EDD as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing EDD ready to take on any post-secondary program or career.

Prerequisites - PLTW - Introduction to Engineering Design, PLTW - Principles of Engineering, Score of 4+ on IED & POE End of Course Exams

Term: Year **Credit:** 1.0 State Elective Credit or 1.0 State Science Credit

Certification: Engineering Technology Foundations

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses. Requires completed paperwork by posted date. See Engineering teacher for questions concerning the course.

5811 **PLTW - Fundamentals of Computer Science** 9-12

Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. CSP helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. This course aligns with the AP Computer Science course.

Prerequisites - None

Term: Year **Credit:** 1.0 State Elective Credit

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses. Beginning with the graduating class of 2026 this course will no longer receive advanced weighting in the GPA.

5820 **Computer Science *MHS Only*** 10-12

Computer Science I is designed to foster students' creativity and innovation by presenting opportunities to design, implement and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor and with various electronic communities to solve the problems presented throughout the course. Data analysis will include the identification of task requirements, planning search strategies and the use of

computer science concepts to access, analyze, and evaluate information needed to solve problems

Prerequisites - Fundamentals of Computer Science and Algebra I

Term: Year **Credit:** 1.0 State Elective Credit or LOTE credit

5812 **AP Computer Science A** 10-12

This course follows the College Board Computer Science Advanced Placement Guidelines. The course will be taught using the programming language Java. This course may be counted as a math credit. The additional credit will satisfy a LOTE (Languages Other Than English) credit. This credit is not weighted twice in the GPA. While it satisfies a LOTE graduation requirement, computer science may not meet college admission's requirements in foreign language. Students are required to take the AP Computer Science exam

Prerequisites – PLTW-Fundamentals of Computer Science and Computer Science, recommended Algebra I

Term: Year **Credit:** 2.0 State Elective Credit or 1.0 Math Credit and 1.0 LOTE credit

This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. See AP criteria.

5813 **PLTW - Cybersecurity** 11-12

Student will learn about tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.

Prerequisites – Fundamentals of Computer Science

Term: Year **Credit:** 1.0 State Elective Credit

Certification: CompTIA Security+, Cybersecurity Fundamentals

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

5814 **Practicum in STEM** 12

The course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technology education courses in the Computer Science pathway. This course provides content aligned with challenging academic standards and relevant technical knowledge and skills to further their education and succeed in current or emerging professions in Cybersecurity. This course offers the student an opportunity to earn a certification in cybersecurity.

Prerequisites – Fundamentals of Computer Science, Cybersecurity, and one additional pathway course

Term: Year **Credit:** 2.0 State Elective Credit

Certification: Cybersecurity Program of Study: CompTIA Security+, Cybersecurity Fundamentals Engineering Program of Study: Engineering Technology Foundations

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

5816 **AP Computer Science Principles *LCHS only*** 10-12

An introduction to the breadth of the field of computer science. In this course, students will learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They will incorporate abstraction into programs and use data to discover new knowledge. Students will also explain how computing innovations and computing systems, including the Internet, work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical.

Prerequisites - PLTW-Fundamentals of Computer Science

Term: Year **Credit:** 1.0 State Elective Credit or LOTE credit

This course receives AP/DC weighting in the GPA.

5821 **Networking**

10-12

In the Networking course, students will develop knowledge of the concepts and skills related to data networking technologies and practices to apply them to personal or career development. To prepare for success, students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

Prerequisites - PLTW-Fundamentals of Computer Science

Term: Year **Credit:** 1.0 State Elective Credit

5822 **Project Based Research- Cybersecurity**

12

This Course is a fourth and final course for the Cybersecurity Pathway. The course further raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.

Prerequisites - 3 courses in the Cybersecurity Pathway

Term: Year **Credit:** 1.0 State Elective Credit

Certification: CompTIA Security+, Cybersecurity Fundamentals

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

5891 **Dual Credit Basic Machine Shop I (at Lone Star College - Conroe)**

11-1

An introductory course that assists the student in understanding the machinist occupation in industry. The student begins by using basic machine tools such as the lathe, milling machine, drill press, power saw and bench grinder. Machine terminology, theory, math, part layout, and bench work using common measuring tools is included. Instruction is designed to provide job specific training for entry-level employment skills in metal machinist careers. Students must be 16 years of age. Course instruction provided at Lone Star College – Conroe Center (transportation will be available). MCHN 1302, 1343, 1338, 1352

Prerequisites - Meet LSCS qualifications

Term: Year **Credit:** 2.0 State Elective Credit

This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria. This course will fill 3 class periods in the student's schedule.

5892 **Dual Credit Auto Tech (at Lone Star College - Conroe)** 11-12

An introduction to the automotive industry including automotive history, safety practices, shop equipment and tools, vehicle subsystems, service publications, fasteners, professional responsibilities, and automotive maintenance - AUMT 1405, 1407, 1410, 1416. Courses completed in the certificate programs may be applied toward the associate degree in automotive technology. Course instruction provided at Lone Star College – Conroe Center (transportation will be available).

Prerequisites - Meet LSCS qualifications

Term: Year **Credit:** 2.0 State Elective Credit

This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria. This course will fill 3 class periods in the student's schedule.
