

# MISD



## High School Course Selection Guide



# 22-23

# Montgomery ISD

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## 2022-2023 High School Course Selection Guide

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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:

<b>Counseling Center</b>	<b>Montgomery High School</b>	<b>Lake Creek High School</b>
<b>College &amp; Career Center</b>	(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 2021. A copy of this entire guide and catalog is available on the district website ([www.misd.org](http://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 Minor (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 Minor (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) *	
<b>ENGLISH</b> . . . . .	<b>4</b>
English I, II, III, and an additional English course	
<b>MATHEMATICS</b> . . . . .	<b>3</b>
Algebra I, Geometry, and an additional math course	
<b>SCIENCE</b> . . . . .	<b>3</b>
Biology, Chemistry or IPC, and an additional science course	
<b>SOCIAL STUDIES</b> . . . . .	<b>3</b>
World History or World Geography, U.S. History, Government/ Economics	
<b>PHYSICAL EDUCATION</b> . . . . .	<b>1</b>
Physical Education or state approved alternatives (athletics, marching band, etc.)	
<b>FINE ARTS</b> . . . . .	<b>1</b>
<b>WORLD LANGUAGES</b> . . . . .	<b>2</b>
Must consist of 2 levels in the same language	
<b>ELECTIVES</b> . . . . .	<b>7</b>
2 Electives must be chosen from CTE courses for FHSP without endorsement.**	
<b>TOTAL FHSP CREDITS 24</b>	

FOUNDATION HIGH SCHOOL PROGRAM (FHSP) WITH ENDORSEMENT	
<b>ADDITIONAL MATHEMATICS</b> . . . . .	<b>1</b>
<b>ADDITIONAL SCIENCE</b> . . . . .	<b>1</b>
<b>ELECTIVES: 4 of the 7</b> 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.	
<b>TOTAL FHSP WITH ENDORSEMENT CREDITS 26</b>	

\*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><b>STEM</b> – Science (including environmental science), Technology (including computer engineering); Engineering (PLTW), advanced Math, and Robotics</p> <p><b>BUSINESS &amp; INDUSTRY</b> – database management, information technology, communications, accounting, finance, marketing, graphic design, architecture, construction, welding, culinary arts and hospitality, automotive technology, and agricultural science</p> <p><b>PUBLIC SERVICES</b> – 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><b>ARTS &amp; HUMANITIES</b> – political science, world languages, cultural studies, English literature, history, and fine arts</p> <p><b>MULTIDISCIPLINARY STUDIES</b> – 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><b>DISTINGUISHED LEVEL OF ACHIEVEMENT</b> <i>(Eligible for Automatic College Admissions)</i></p> <ul style="list-style-type: none"> <li>• 4 credits of Math, including Algebra II</li> <li>• 4 credits of Science</li> <li>• completion of curriculum requirements for at least 1 endorsement</li> </ul> <p><b>PERFORMANCE ACKNOWLEDGEMENT</b></p> <p>A student may earn a performance acknowledgement on their transcript for-</p> <ol style="list-style-type: none"> <li>1. outstanding performance             <ul style="list-style-type: none"> <li>• in a dual credit course</li> <li>• in bilingualism and bi-literacy</li> <li>• on an AP exam or IB exam</li> <li>• on the PSAT, the ACT-Plan, the SAT, or the ACT</li> </ul> </li> <li>2. earning a nationally or internationally recognized business or industry certification or license</li> </ol>

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"> <li>• English I, English II , Algebra I , Biology , and United States History</li> </ul>



# 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 3 credits + 1 for Endorsement

- 1<sup>st</sup>: Algebra I
- 2<sup>nd</sup>: Geometry
- 3<sup>rd</sup>: Algebra II or Math Models
- 4<sup>th</sup>: (select one or more)
  - Algebra II
  - AQR
  - Pre-Calculus
  - AP Statistics
  - AP Calculus AB
  - AP Computer Science
  - Algebraic Reasoning
  - College Readiness Math (12<sup>th</sup> 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)

## Social Studies 3 credits

- World Geography or AP Human Geography
- World History
- US History (11th grade)
- Government/Economics (12<sup>th</sup> grade)

## Electives

7 credits to include courses for the Endorsement Pathway

World Languages  
2 credits of the same language

## Science 3 credits + 1 for Endorsement

- 1<sup>st</sup>: Biology
- 2<sup>nd</sup>: Chemistry or IPC  
*\*Please note that Chemistry is required for STEM endorsement*
- 3rd and 4th year options:
  - Advanced Animal Science (CTE)
  - Anatomy & Physiology (CTE)
  - AP 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

- Foundations of Personal Fitness
- Aerobics Movement
- Team Sports
- 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)
- Jazz Show Choir

## Fine Arts 1 credit

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

# ENDORSEMENT PATHWAYS

## Science, Technology, Engineering, and Math (STEM)

- Engineering
- Math
- Science
- Cybersecurity
- Combination

## Public Services

- Cosmetology
- Education and Training
- Health Science
- Human Services
- Law and Public Safety
- JROTC
- Combination

## Business and Industry

- Agriculture, Food, and Natural Resources
- Architecture and Construction
- Arts, Audio/Video Technology, and Communications
- Business, Marketing, & Finance
- Hospitality and Tourism
- Manufacturing
- Journalism (English Electives)

## Arts and Humanities

- Art
- Theatre
- 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

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

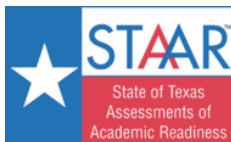
A student is classified according to the number of credits earned at the beginning of the school year. A student beginning the school year as a freshman WILL NOT be reclassified at midterm; however, a repeat sophomore or junior who earns the required number of credits by the spring semester WILL BE RECLASSIFIED.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

## 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>

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## AWARD OF CREDIT

Per district policy: "A student shall earn a full year of credit if the first semester grade average is below 70, but the second semester grade average brings the overall average to 70 or above. A student who earns a passing grade for the first semester but fails the second semester with a grade below 62 shall earn credit only for the first semester, even if the overall average for the two semesters is 70 or above. In this circumstance, the student shall be required to retake the second semester in which the failing grade was earned."

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.

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## TEXAS VIRTUAL SCHOOL NETWORK (TxVSN)

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.

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## 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 1<sup>st</sup> 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.

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## SUMMER SCHOOL

Summer school courses may be used for 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.

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## 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, i.e., for advancement, or 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 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. 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.

### **Credit by Exam for Credit Recovery (For Retrieval)**

A student who has previously taken a course or subject – but did not receive credit or a final grade for that subject – may, in circumstances determined by the principal or attendance committee, be permitted to earn credit by passing an exam approved by the district's board of trustees on the essential knowledge and skills defined for that course or subject. Prior instruction may include, for example, incomplete coursework due to a failed course or excessive absences, homeschooling, or coursework by a student transferring from a non-accredited school. The opportunity to take an examination to earn credit for a course or to be awarded a final grade in a subject after the student has had prior instruction is sometimes referred to as "credit recovery."

The school counselor or principal would determine if the student could take an exam for this purpose. If approval is granted, the student must score at least 70 on the exam to receive credit for the course or subject. The attendance review committee may also offer a student with excessive absences an opportunity to earn credit for a course by passing an exam. For further information, see the school counselor and policy EHDB (LOCAL).

**Performance Criteria for Retrieval:** To receive credit for the course, the student must score a 70 percent or higher on the district's designated criterion-referenced test covering the requirements in Chapters 74 and 75 of the TAC and district objectives of the course.

**Granting and Recording Credit:** Test scores will be posted to the AAR and credit will be awarded for grades of 70 or higher. No advanced course designations will be given. CBE grades will not be computed in the GPA and/or used for ranking purposes.

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## **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.

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## **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. A foreign exchange student will be required to take the following courses: English III or AP English Language, US History and US Government. 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.

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## 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 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 six-weeks grading period. For example, if the six-week 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.

AP English Literature & Composition  
ACADEC I-IV  
Advanced World Geography  
Advanced World History  
AP European History  
AP Human Geography  
AP Macroeconomics  
AP Psychology  
AP US Government  
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  
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  
World Languages IV-VI

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## 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 \$94. 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
- 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
- 2024 AP European History
- 2032 AP U.S. History
- 2042 AP U.S. Government
- 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
- 5816 AP Computer Science Principles
- 5812 AP Computer Science A
- AP Art History
- 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 Course & 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 deadlines for the AP exam will be determined by your campus. Failure to pay for the AP exam will result in the removal of the student from the AP class.

## **Advanced Course & Advanced Placement (AP) Exit Guidelines**

Students may exit an Advanced/AP course with parent approval within the first 10 days of the beginning of school or with teacher grade verification at the end of the 1<sup>st</sup> six weeks 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 1<sup>st</sup> six weeks 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 SELF-ELECT FROM AS NO EQUIVALENT LEVEL COURSE IS AVAILABLE:**

- 0572 Advanced Debate II
- 0573 Advanced Debate III
- 0574 Independent Study In Speech / Debate IV Advanced
- 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
- 2081 ACADEC I
- 2082 ACADEC II
- 2083 ACADEC III
- 2084 ACADEC IV
- 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
- AP Art History
- AP Seminar
- AP Research

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## **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>

### **MISD offers Academic Dual Credit in these LSC Courses:**

English 1301/1302	Calculus for Business & Social Sci. 1325	Microeconomics 2302
English 2332/2333	US History 1301/1302	Psychology 2301
College Algebra 1314	Federal Government 2305	Sociology 1301
Math for Business & Social Science 1324	Texas Government 2306	Spanish 1411/1412
Statistics 1342	Macroeconomics 2301	Spanish 2311/2312
		Criminal Justice 1301/1306

### **MISD offers Workforce Dual Credit in these 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.

Auto Technology 1405/1407, 1410/1416  
EMT 1305, 1160/1501

Machining 1302/1343, 1338/1352  
Welding 1421/1428, 1417/1457, 1430/1434, 2447/2451

- 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.
- The MISD Board of Trustees shall approve courses for which high school credit shall be granted.
- Specific requirements will be provided by the high school dual credit coordinator.



- Students successfully completing a 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.
  - Hybrid refers to a course that has a substantial portion of the course delivered web-based while some learning outcomes require hands-on experience done in face-to-face instruction.

**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:
  - TSIA (reading, writing, and/or math relevant to the courses being taken) or
  - Exempt scores based on ACT or SAT.
  - For dual credit students who do not have exemption scores in all sections of the SAT and/or ACT, additional assessment will be required.
- 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.

## **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

# 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.

ADVANCED PLACEMENT VS. DUAL CREDIT CHART		
	Advanced Placement (AP)	Dual Credit (DC)
<b>Description</b>	A college level course.	A college level course.
<b>Credit</b>	High school credit earned when the student passes the course. A passing AP exam score can earn college credit.	High school and college credit earned when the student passes the course.
<b>Teachers/Instructors</b>	Taught by high school teachers who are trained in the College Board's AP course framework.	Taught by high school teachers, who serve as adjunct professors and/or college professors.
<b>College/University Acceptance</b>	To earn college credit, students are required to earn a score of 3 or higher on AP exams. 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. <a href="https://apstudents.collegeboard.org/getting-credit-placement/search-policies">https://apstudents.collegeboard.org/getting-credit-placement/search-policies</a>	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.  <a href="https://www.tccns.org/">https://www.tccns.org/</a>
<b>Location</b>	Courses taught on the high school campus.	Courses taught on the high school or college campus.
<b>Eligibility</b>	All willing and academically prepared students have the opportunity to participate in AP.	<ul style="list-style-type: none"> <li>• Must be currently attending high school and classified as a sophomore, junior, or senior.</li> <li>• Must have a college placement score on the SAT, ACT, or TSIA.</li> <li>• Parent/guardian and counselor approval.</li> <li>• Once accepted to LSCS, a student is subject to MISD and LSCS academic policies</li> </ul>
<b>Cost</b>	Approximately \$94 per test.	The cost is \$73-\$121 per 3 credit hour academic course. Payment to LSCS upon registration.
<b>Textbooks</b>	Provided by the school.	Students are responsible for purchasing textbooks.
<b>Impact on High School GPA</b>	Courses are weighted in the high school GPA.	Courses are weighted in the high school GPA.

## 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 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
- Counselor's scheduling error
- Balancing of class sizes
- Student needs to add a course to be a full time student/has an incomplete schedule
- Student is cut from any extracurricular program (WITHIN THE CUT DEADLINE)
- IEP/504 Committee decision
- Student not scheduled in elective pathway
- Students may request a schedule change from an advanced/AP class under the following two conditions:
  - 1) A grade of "74" or below for the 1<sup>st</sup> six weeks
  - 2) At the conclusion of the 1<sup>st</sup> semester

*\*Please Note: Grade points are awarded for courses at semester. If a student moves at the end of the 1<sup>st</sup> six weeks 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.*

### **How to handle a schedule concern:**

*\*Please note: If your schedule reflects those courses and alternates requested on your course selection form, YOU HAVE NO SCHEDULE CONCERNS.*

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

### **How to handle a teacher concern**

Montgomery ISD hires only highly qualified staff members and therefore does not allow teacher changes. If a concern with a teacher comes to our attention, our goal is to address the concern and develop a plan to help the student be successful in their current placement.

Students or parents who have a concern should first contact the appropriate staff member and schedule a parent-teacher conference. The most direct route to resolving a concern is to confer directly with the person involved, whether it is a teacher, coach, sponsor, or etc. If the outcome of that meeting is not satisfactory, they may also speak to the department chair to try to resolve the concern. If the concern is still not resolved, they should request a conference with campus administration.

*\*Please note: Time is required to collect relevant data on the conflict, so scheduling a conference in advance is required.*

## **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 six weeks. 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 six weeks.

### **Honor Graduates**

**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:** This group of graduates is determined after the final senior class ranking following the First Semester. It includes the top 10% of the graduating class consisting of the three-year and four-year graduates as determined by the State of Texas Top 10% guidelines as well as any four-year graduates that may have been displaced by the addition of the three-year graduates. This group, therefore, may include slightly more than 10% of the graduating class. In accordance with Texas Education Code (TEC), §28.026, and Texas Administrative Code (TAC), §61.1201, school districts are required to provide eligible students with written notification of eligibility for automatic college admission under the Uniform Admission Policy (TEC §51.803). No later than the 14<sup>th</sup> day after the last day of classes for the fall semester, a campus designee shall notify each eligible senior, each junior with a grade point average in the top ten percent, and each student's parent or guardian of the student's eligibility for automatic college admission.

### **Early Graduation**

A student wanting to participate in graduation exercises and receive a diploma in less than four years shall make 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 IGC.*

### **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.

### **Texas Public University / College Automatic Admission**

Students graduating in the top 10% of our school’s graduating class are granted automatic admission into a Texas public four-year university or college for two years following graduation, except for the University of Texas (UT). UT sets the top graduating percentage and it is posted on their website. 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 Benchmarks.

<b>College Readiness Benchmarks</b>			
<b>ACT Score</b>	<b>SAT Score</b>	<b>TSIA Score</b>	<b>TSIA2 Score</b>
English 18**	EBRW 480	Writing: 340 with 4 on essay***	Math: 950+ or Math 910+ and Diagnostic 6
Reading 22	-	Reading: 351-390	ELAR 945+ or ELAR 910 and Diagnostic 5+
Mathematics 22	Math 530	Mathematics: 350-390	Essay 5+
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 RELEASE/LATE ARRIVAL**

Early release and late arrival are for seniors only. Credits, grades, attendance, and discipline are all taken into consideration. See campus criteria.

## **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](http://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 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](http://www.collegeboard.org). For information on accommodations, visit the College Board website at [www.collegeboard.org/students-with-disabilities](http://www.collegeboard.org/students-with-disabilities). For information on ACT registration and deadlines, visit the ACT website at [www.act.org](http://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](http://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	
<p>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.</p> <p>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. <a href="#">Texas Education Code §28.0256</a> allows a student to opt out of the financial aid application graduation requirement by submitting a signed form that authorizes the student to decline.</p> <p>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:</p> <p>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</p> <p><i>Students under 18 years of age may only be authorized to decline under OPTION II or OPTION III.</i></p>	
<b>Student Printed Name:</b>	<b>Date of Birth:</b>
<b>District/Charter School:</b>	<b>Campus:</b>

**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 <b>18 years of age or older or an emancipated minor</b> and am authorized to decline to complete and submit a financial aid application on my own behalf.	
<b>Student Signature:</b>	<b>Date:</b>
OPTION II: PARENT AUTHORIZATION	
My signature below authorizes my child to decline to complete and submit a financial aid application.	
<b>Parent/Legal Guardian Signature:</b>	<b>Date:</b>
<b>Parent/Legal Guardian Printed Name:</b>	
I am under the age of 18 and with my parent's authorization, I decline to complete and submit a financial aid application.	
<b>Student Signature:</b>	<b>Date:</b>
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.	
<b>School Counselor Signature:</b>	<b>Date:</b>
<b>School Counselor Printed Name:</b>	
I am under the age of 18 and with my counselor's authorization, I decline to complete and submit a financial aid application.	
<b>Student Signature:</b>	<b>Date:</b>

# GRADE POINT SYSTEM

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.

<b>MISD GRADE POINT SYSTEM</b>					
<b>GRADE</b>	<b>LEVEL<sup>†</sup></b>	<b>ADVANCED<sup>‡</sup></b>	<b>AP / DC<sup>§</sup></b>	<b>LONE STAR/DUAL CREDIT</b>	
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		

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

<sup>‡</sup> **Advanced Courses:** Eligible courses locally designated as advanced courses in the course selection guide shall be categorized and weighted as Advanced Courses.

<sup>§</sup> **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 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 and February. Final rankings will be calculated after the Fall Semester. The three-year graduate will be ranked with the graduating class according to his/her GPA.

**Junior rankings** are released at the end of the 1<sup>st</sup>, 4<sup>th</sup>, and 6<sup>th</sup> grading periods each year.

**Sophomore and Freshman rankings** are released at the end of the 4<sup>th</sup> and 6<sup>th</sup> grading periods 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

# ENGLISH LANGUAGE ARTS

0511	<b>English I</b>	9-12
0521	<b>English II</b>	10-12
0531	<b>English III</b>	11-12
0541	<b>English IV</b>	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

0547	<b>College Readiness English IV</b>	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.*

0512	<b>Advanced English I</b>	9-10
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0522	<b>Advanced English II</b>	9-10
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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	<b>AP Language and Composition</b>	11
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AP Language & Composition is designed to provide students with an opportunity to complete the equivalent of a college level rhetoric and composition course. Students will read mainly non-fiction from a variety of periods, disciplines, and rhetorical contexts. The course develops writing techniques, research skills, and analysis of literature necessary for college success. Students must be prepared to devote considerable time to writing.

**Prerequisites** - English II/See AP Criteria/Admissions Committee Approval

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

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

0533	<b>Dual Credit English III (Eng 1301/1302 for Juniors)</b>	11
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First semester, students receive credit for ENGL 1301 at LSCS. Intensively studies and practices the writing process, from invention and researching to drafting, revising, & editing. Focuses on writing argumentative essays ethically & effectively with rhetorical choices of audience, purpose, organization, and style, as well as rhetorical inquiry and primary and secondary research. Second semester, students receive credit for ENGL 1302 at LSCS. A continuation of 1301. Emphasizes critical reading of literature and developing arguments based on author's rhetorical choices and literary elements like theme, plot, and characterization.

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

0534	<b>College Readiness English (Dual Credit Integrated Reading and Writing II)</b>	12
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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 TSIA 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.*

**0542 AP Literature and Composition** 12  
AP Literature & Composition is designed to provide college level studies for students with an above average ability in English III who are planning to enter a four-year university upon high school graduation, and help prepare for the AP Literature and Composition Exam. Students will read and analyze British literary works in class and will read widely outside of class. The instruction provides the students with sophisticated techniques for success in writing on a college level.  
**Prerequisites** - English III/See AP Criteria/Admissions Committee Approval  
**Term:** Year **Credit:** 1.0 English State Credit  
*This course receives AP/DC weighting in the GPA. See AP criteria.*

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**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/See Dual Credit Criteria/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.*

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**0544 Dual Credit English IV (Eng 2332/2333)** 12  
First semester, students receive credit for ENGL 2332 at LSCS. This course is a survey of world literature from the ancient world through the 16th century. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. Second semester, students receive credit for ENGL 2333 at LSCS. This course is a survey of world literature from the 17th century to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. International Studies Area of Concentration course.  
**Prerequisites** - Dual Credit English III (Eng 1301/1302 for Juniors), Passing Entrance Tests Scores As Determined By Lone Star College/See Dual Credit Criteria/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.*

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**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.*

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**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

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**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.*

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**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

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**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.*

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**0571 Debate I** 9-12  
**0572 Advanced Debate II** 10-12  
**0573 Advanced Debate III** 11-12  
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.*

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0572	<b>Advanced Debate II</b>	10-12
0573	<b>Advanced Debate III</b>	11-12
0574	<b>Independent Study In Speech / Debate IV</b>	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/See Advanced Criteria

**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	<b>Journalism</b>	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	<b>Yearbook I</b>	10-12
0582	<b>Yearbook II</b>	11-12
0583	<b>Yearbook III</b>	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	<b>Independent Study / Yearbook</b>	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	<b>Newspaper I</b>	10-12
0592	<b>Newspaper II</b>	11-12
0593	<b>Newspaper III</b>	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	<b>Independent Study / Newspaper</b>	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	<b>Photojournalism I</b>	10-12
0612	<b>Photojournalism II</b>	11-12
0613	<b>Photojournalism III</b>	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	<b>Reading I</b>	9-12
0622	<b>Reading II</b>	9-12
0623	<b>Reading III</b>	9-12
0624	<b>Reading IV</b>	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

# 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

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**1012 Advanced Algebra I** 9  
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 / See Advanced Criteria  
**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.*

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**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

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**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/See Advanced Criteria  
**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.*  
**Term:** Year **Credit:** 1.0 Math State Credit

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**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 to 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

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**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

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**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

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**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 Advanced Geometry/Suggested grade of 85 of higher in 8th grade Algebra I or Advanced Algebra I, or, 95 or higher in on-level Algebra I / See Advanced Criteria  
**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.*

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**1051 Advanced Quantitative Reasoning (AQR)** 12

Students will develop and apply skills necessary for college, careers, and life. Course content consists primarily of applications of high school mathematics concepts to prepare students to become well-educated and highly informed 21st century citizens. Students will develop and apply reasoning, planning, and communication to make decisions and solve problems in applied situations involving numerical reasoning, probability, statistical analysis, finance, mathematical selection, and modeling with algebra, geometry, trigonometry, and discrete mathematics.

**Prerequisites** - Algebra I, Geometry, Algebra II

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

*This course does NOT receive advanced weighting in the GPA.*

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**1061 Pre-Calculus** 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

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**1062 Advanced Pre-Calculus** 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 / See Advanced Criteria

**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.*

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**1063 AP Calculus AB** 12

This course is designed for advanced math students. Limits, derivatives, and the definite integral are among the topics studied in detail. This course emphasizes the various types and applications of differentiation and integration.

**Prerequisites** - Pre-Calculus / Suggested grade of 85 or higher in Advanced Pre-Calculus / See AP Criteria

**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.*

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**1071 AP Statistics** 11-12

This course will introduce the students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to the themes of exploring data, sampling and experimentation,

anticipating patterns, and statistical inference. Use of a graphing calculator with statistical capabilities is an integral part of this class.

**Prerequisites** - Algebra II / Suggested grade of 80 or higher in Advanced Algebra II OR 90 or higher in Algebra II / See AP Criteria

**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.*

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**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.*

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**1101 Dual Credit College Algebra** 11-12

College Algebra topics include absolute value and quadratic equations and inequalities, graphing skills, inverse functions, logarithmic and exponential functions, polynomial and rational functions, piecewise-defined functions, theory of equations and systems of equations - MATH 1314. Students are required to purchase an access code for this course, which includes the online homework assignments and a virtual textbook.

**Prerequisites** - Algebra II / Demonstrate college readiness through the Texas Success Initiative Assessment (TSIA) or other approved placement scores / See Dual Credit Criteria

**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.*

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

Topics include 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. Students are required to purchase an access code for each course, which includes the online homework assignments and a virtual textbook.

**Prerequisites** - Algebra II / Demonstrate college readiness through the Texas Success Initiative Assessment (TSIA) or other approved placement scores / See Dual Credit Criteria

**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.*

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**1103 Dual Credit Statistics** 11-12  
Statistics topics include probability, random variable, binomial and normal distribution, random sampling, statistical inference, estimation, testing hypotheses, linear regressions and correlation, and chi-square test - MATH 1342. Students are required to purchase an access code for each course, which includes the online homework assignments and a virtual textbook. A graphing calculator is used as an integral part of this course.  
**Prerequisites** - Algebra II / Demonstrate college readiness through the Texas Success Initiative Assessment (TSIA) or other approved placement scores / See Dual Credit Criteria  
**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.*

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**1104 Dual Credit Calculus for Business and Social Science** 11-12  
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 - MATH 1325.  
**Prerequisites** - Algebra II / Demonstrate college readiness through the Texas Success Initiative Assessment (TSIA) or other approved placement scores / See Dual Credit Criteria

**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.*

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**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

## 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

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## 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

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## 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** - See Advanced Criteria

**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.*

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## 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. Laboratory experience is heavily emphasized and is designed to familiarize the students with some of the most recent techniques and processes currently used in scientific research. Laboratory work has an emphasis on inquiry-based investigations. Investigations require students to ask questions, make observations and predictions, design experiments, analyze data, and construct arguments.

**Prerequisites** - Biology, Chemistry/See AP Criteria

**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.*

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## 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

**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 / See Advanced Criteria

**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.*

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## 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. Lab exercises emphasize the mole concept, gravimetric and volumetric quantitative analysis, qualitative analysis and organic chemistry. Experimentation, individual student inquiry and mathematical problem solving are an integral part of the course.

**Prerequisites** - Biology, Chemistry/Algebra II (recommended) /See AP Criteria

**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.*

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## 1541 Physics 10-12

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** - Algebra II or Concurrent Enrollment/Biology

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

---

**1542 AP Physics I** 10-12  
AP Physics 1 is algebra-based and is the equivalent of a first-semester college course in Algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It also introduces electric circuits. Laboratory experiences are analytically based and relate directly to current classroom topics. Strong mathematical principles are a requirement for this course.

**Prerequisites** - Advanced Algebra II or Concurrent Enrollment/See Advanced Criteria

**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  
This course is the equivalent to a second-semester college course in algebra based physics. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; and atomic and nuclear physics. Students will use critical thinking and scientific problem solving using the scientific method. This course is an excellent opportunity for students considering a career in science or engineering fields. Problem solving will be rigorous. A variety of hands-on laboratory investigations and inquiry activities will be included.

**Prerequisites** - Physics or AP Physics 1/Pre-Calculus/See AP Criteria

**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.*

**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

**1562 AP Environmental Science** 11-12  
This laboratory and field-based course is designed to provide students with scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving them. Laboratory and field investigations are diverse and interwoven into the curriculum. Student is responsible for cost of class lab fees in addition to the exam fee.

**Prerequisites** - Biology/Chemistry or Concurrent Enrollment In Chemistry/See AP Criteria

**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.*

**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.*

**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

**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

**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

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**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

# SOCIAL STUDIES

**2011 World Geography Studies** 9-10  
Students will examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography.  
**Prerequisites** - None  
**Term:** Year **Credit:** 1.0 Social Studies State Credit

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**2012 Advanced World Geography Studies** 9-10  
Meticulous analysis based on geographic skills will extend to contemporary areas of concern such as: regional conflicts, global pollution and energy resources. Students will participate in independent research, outside reading, oral and multimedia presentations, simulations, and intense essay writing.  
**Prerequisites** - See Advanced Criteria  
**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.*

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**2013 AP Human Geography** 9-12  
The course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine socioeconomic organization and its environmental consequences. This course fulfills the graduation requirements for World Geography.  
**Prerequisites** - On-level Social Studies course GPA > 91 or Advanced Social Studies course > 71 recommended  
**Term:** Year **Credit:** 1.0 Social Studies State Credit  
*This course receives AP/DC weighting in the GPA. See AP criteria.*

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**2021 World History** 9-10  
World History Studies is the only course offering students an overview of the entire history of humankind. The major emphasis is on the study of significant people, events and issues from earliest times to the present.  
**Prerequisites** - None  
**Term:** Year **Credit:** 1.0 Social Studies State Credit

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**2022 Advanced World History** 9-10  
The scope of this course focuses on "essential" concepts and skills that can be applied to various eras, events, and people. Traditional historical points of reference in world history are identified as students analyze important events and issues in western civilization and civilizations in other parts of the world.  
**Prerequisites** - See Advanced Criteria  
**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.*

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**2023 AP World History** 9-10  
Students will explore interaction between the environment, culture(s), state-building, economic systems, and social structures, from approximately 8000 B.C.E. to the present, with intense essay writing and outside readings.  
**Prerequisites** - See AP Criteria  
**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  
The AP European History course focuses on the socio-cultural, political, religious, intellectual, artistic, technological and economic developments in Europe from 1450-the present. This is a College level course that requires extensive reading and research. The course is designed to enhance your ability to analyze historical evidence, evaluate and synthesize historical sources into effectively written essays.  
**Prerequisites** - See AP Criteria  
**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.*

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**2031 U.S. History (Since Reconstruction)** 11  
Students study the history of the United States since Reconstruction to the present. Historical content focuses on the political, economic, and social events and issues related to industrialization and urbanization, major wars, domestic and foreign policies of the Cold War, and post-Cold War eras, and reform movements including civil rights.  
**Prerequisites** - None  
**Term:** Year **Credit:** 1.0 Social Studies State Credit

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**2032 AP U.S. History** 11  
Students learn about the developments that have shaped U.S. history through the critical analysis of historical events and materials. Intense essay writing and outside reading is a substantial part of the course.  
**Prerequisites** - See AP Criteria  
**Term:** Year **Credit:** 1.0 Social Studies State Credit  
*This course receives AP/DC weighting in the GPA. See AP criteria.*

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**2033 Dual Credit U.S. History** 11  
A survey of U.S. history from pre-contact societies through Reconstruction. Themes to be developed include westward expansion and globalization, slavery, Native Americans, and religious and social changes. An additional purpose of this course is to introduce students to the skills and practices of history - HIST 1301. A survey of U.S. history from 1877 to the present. Topics will include western expansion, industrialization, immigration, imperialism, economic, political and social developments, the wars of the 20th century and the changing status and conditions of women and minorities - 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/See Dual Credit Criteria  
**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.*

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**2041 U.S. Government** 12  
This one-semester course is designed to prepare students for decision-making within the framework of the American political system. The course begins with an overview of basic concepts found in all political systems, the philosophical background that led to our constitutional development, and the basic concepts found in the Constitution. The three branches of the federal government, including current issues of interest nationally, will be studied. In addition, students survey the fields of civil rights and liberties, political parties and suffrage, and a study of the Texas Constitution, state and local government.

**Prerequisites** - None

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

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**2042 AP U.S. Government** 12  
Students will study constitutional underpinnings, civil liberties and civil rights, political culture and socialization, citizen participation and influence, political institutions and policy making that are the foundation of modern U.S. government and politics. Intense essay writing and outside reading is a substantial part of the course. This course does fulfill the state requirement for a government credit.

**Prerequisites** - See AP Criteria

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

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

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**2043 AP Comparative Government and Politics** 12  
This course introduces students to the rich diversity of political life outside the United States. 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 compare the effectiveness of approaches to many global issues by examining how different governments solve similar problems. They will also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments.

**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.*

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**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. Typically offered as an online course 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 are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.*

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**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. Typically offered as an online course through Lone Star College. This course does not meet graduation requirements for government credit.

**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.*

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**2051 Economics** 12  
Study of our economic system that is characterized by private or corporate ownership of capital goods, by investments that are determined by private decisions rather than by state control, and by prices, production, and the distribution of goods that are determined in a free market.

**Prerequisites** - None

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

---

**2053 AP Macroeconomics** 12  
This AP course is designed to provide a thorough understanding of the principles of economics that apply to an economic system as a whole. Such a course places particular emphasis on the study of national income and price determination, while also developing a familiarity with economic performance measures, economic growth, and international economics. This course fulfills the state requirement for economics credit.

**Prerequisites** - See AP 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. See AP criteria.*

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**2054 Dual Credit Macroeconomics** 12  
A study of macroeconomic principles. Analysis of the market economy; national income accounting; income determination; stabilization policies: monetary and fiscal policy; money and banking; demand and supply-side economics; monetarist vs. Keynesian view; inflation theories such as distinction between demand-pull and cost-push theories, Phillips curve analysis; labor market and determination of unemployment rate – ECON 2301. Typically offered as an online course through Lone Star College. This course does not meet graduation requirements for economics credit.

**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.*

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**2055 Dual Credit Microeconomics** 12  
A study of microeconomic principles. Analysis of theories of consumer behavior, production, cost; equilibrium analysis in product markets under different market structures, such as perfect competition, monopoly, monopolistic competition, oligopoly; cartels and conglomerate mergers; antitrust policy, economics of regulation; analysis of different types of factor markets and factor price determination – ECON 2302. Typically offered as an online course 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.*

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**2061 Psychology** 10-12  
Emphasis is placed on the systematic and scientific study of the behavior and mental processes of human beings and other animals. Focus is placed on psychological facts, principles, and phenomena associated with each of the major subfields within psychology.

**Prerequisites** - None

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

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**2062 AP Psychology** 10-12  
An enriched and challenging focus on the systematic and scientific study of the behavior and mental processes of human beings and other animals, including an emphasis on psychological facts, principles, and phenomena associated with each of the major subfields within psychology.

**Prerequisites** – Psychology Recommended/See AP Criteria

**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.*

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**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. Typically offered as an online course through Lone Star College.

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

**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  
Emphasizes patterned human behavior in major social institutions and processes. Focus is placed on an understanding of the social environment and of the dynamic interaction between the individual and society.

**Prerequisites** - None

**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. Typically offered as an online course through Lone Star College.

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

**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.*

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**2081 ACADEC I** 9-12  
**2082 ACADEC II** 9-12  
**2083 ACADEC III** 9-12  
**2084 ACADEC IV** 9-12

This independent study/social studies course is designed to prepare students for academic test competitions including Academic Decathlon as well as other events. Students will conduct research topics generated by annual themes in Economics, Fine Arts, Language/Literature, Math, Science, Social Studies, Speech, Interview, and Essay Writing. Although all students will study the areas required for the Academic Decathlon competition, they will be given the opportunity to specialize in U.I.L. interests.

**Prerequisites** - Strong Research, Writing and Speaking Skills/Parental and Admissions Committee Approval

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

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

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**2085 Personal Financial Literacy** 10-12  
This one-semester elective course is designed to help students develop the knowledge and skills to make sound, informed financial decisions that will allow them to become financially responsible. The course will teach students to apply critical-thinking and problem solving skills to analyze decisions involving earning and spending, saving and investing, credit and borrowing, insuring and protecting, and college and post-secondary education and training

**Prerequisites** - None

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

# ATHLETICS & PHYSICAL EDUCATION

3000 **9<sup>th</sup> Grade Physical Education 1** 09

3001 **9<sup>th</sup> Grade Physical Education 2** 09

Students in these classes will be introduced to a variety of individual and team sports that can be pursued for a lifetime. Students will be encouraged to develop a health-related fitness program and an appreciation for teamwork and fair play. The activities will reinforce incorporating physical activity into a lifestyle beyond high school. Each course is a half-credit.

**Prerequisites** - None

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

3002 **10<sup>th</sup> Grade Physical Education 1** 10

3003 **10<sup>th</sup> Grade Physical Education 2** 10

3004 **11<sup>th</sup> Grade Physical Education 1** 11

3005 **11<sup>th</sup> Grade Physical Education 2** 11

3006 **12<sup>th</sup> Grade Physical Education 1** 12

3007 **12<sup>th</sup> Grade Physical Education 2** 12

Students in these classes will continue to participate in individual and team sports. Sportsmanship and teamwork will be stressed. Maintaining good personal fitness throughout one's lifetime will be the focus of the courses. Each course is a half- credit.

**Prerequisites** - None

**Term:** Semester **Credit:** 0.5 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).*

## MISD ATHLETICS PROGRAMS

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

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. A maximum of four (4) P.E. credits may be counted toward state graduation requirements.

3300 **Aerobic Movement** 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 Physical Education State Credit

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

3401 **Cheerleading I** 9-12

3402 **Cheerleading II** 9-12

3403 **Cheerleading III** 9-12

3404 **Cheerleading IV** 9-12

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.

**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.*

3501 **Athletic Training I** 9-12

3502 **Athletic Training II** 10-12

3503 **Athletic Training III** 11-12

3504 **Athletic Training IV** 12

This course/ program is designed to acquaint the student with the many different aspects of sports medicine and athletic training. The focus of the program is for the student to become proficient in first aid, recognition, treatment, and rehabilitation of sports related injuries. The student will develop self-esteem, time management skills, responsibility, work ethics, and enhanced personal growth. Students will perform designated duties in the training room and at practices and games. The time required for after school duties can vary from 10-25 hours per week. Students must go through an interview process followed by the Athletic Trainer and parental approval.

**Prerequisites** - Completed application and Athletic Trainer's Approval

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



# 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

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## 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

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## 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, See Advanced Criteria

**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.*

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## 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

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## 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/See Advanced Criteria

**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.*

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## 4033 Dual Credit Beginning Spanish III

10-12

This course includes beginner's pronunciation, oral practice, conversation, development of listening comprehension, basic principles of grammar, simple exercises in composition, easy reading which includes cultural material - SPAN 1411. This course is a continuation of SPAN 1411 with increased emphasis on comprehension, speaking, reading and writing. Intensive drills to increase vocabulary and knowledge of structure - SPAN 1412.

**Prerequisites** - Spanish II with grade of 90 or better recommended/Admissions Committee Approval, Passing Entrance Tests Scores As Determined By Lone Star College/See Dual Credit Criteria

**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.*

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## 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

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## 4042 AP Spanish Language and Culture

11-12

This course will continue the skills necessary to prepare the students for the College Board Advanced Placement Exam. Besides practicing advanced grammar constructions, students will be introduced to readings in Hispanic literature as a source for new vocabulary, subjects for conversation and topics for essay writing.

**Prerequisites** - Spanish III with grade of 90 or better recommended/See Advanced Criteria

**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.*

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**4043 Dual Credit Intermediate Spanish IV** 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 - SPAN 2311. This course is a continuation of SPAN 2311, with emphasis on works by Spanish-speaking authors. Continued reinforcement of grammatical principles and development of writing skills are stressed - SPAN 2312.

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

**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.*

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**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

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

*This course receives AP/DC weighting in the GPA.*

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

# FINE ARTS

4201 <b>Band I</b>	9-12
4202 <b>Band II</b>	10-12
4203 <b>Band III</b>	11-12
4204 <b>Band IV</b>	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 <b>Band Techniques I</b>	9-12
4212 <b>Band Techniques II</b>	10-12
4213 <b>Band Techniques III</b>	11-12
4214 <b>Band Techniques IV</b>	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 <b>Jazz Band I</b>	9-12
4222 <b>Jazz Band II</b>	10-12
4223 <b>Jazz Band III</b>	11-12
4224 <b>Jazz Band IV</b>	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 <b>Beginner Band I</b>	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 <b>Beginner Band II</b>	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 <b>Bel Canto Women's Choir</b>	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 <b>A Capella Select Women I</b>	9-12
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4302 <b>A Cappella Select Women II</b>	9-12
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4303 <b>A Cappella Select Women III</b>	9-12
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4304 <b>A Cappella Select Women IV</b>	9-12
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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 <b>Concert Men I</b>	9-12
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4312 <b>Concert Men II</b>	9-12
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4313 <b>Concert Men III</b>	9-12
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4314 <b>Concert Men IV</b>	9-12
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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 <b>Concert Women I</b>	9-12
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4322 <b>Concert Women II</b>	9-12
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4323 <b>Concert Women III</b>	9-12
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4324 <b>Concert Women IV</b>	9-12
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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	<b>Varsity Chorale Men I</b>	9-12
4332	<b>Varsity Chorale Men II</b>	9-12
4333	<b>Varsity Chorale Men III</b>	9-12
4334	<b>Varsity Chorale Men IV</b>	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	<b>Varsity Chorale Women I</b>	9-12
4342	<b>Varsity Chorale Women II</b>	9-12
4343	<b>Varsity Chorale Women III</b>	9-12
4344	<b>Varsity Chorale Women IV</b>	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	<b>Jazz Show Choir I</b>	9-12
4352	<b>Jazz Show Choir II</b>	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. In addition, this course can count towards the required PE Credit.

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

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

4361	<b>Madrigals/Chamber Ensemble I</b>	9-12
4362	<b>Madrigals/Chamber Ensemble II</b>	9-12
4363	<b>Madrigals/Chamber Ensemble III</b>	9-12
4364	<b>Madrigals/Chamber Ensemble IV</b>	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	<b>AP Music Theory</b>	10-12
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AP Music Theory I is a college level course that surveys the fundamentals of harmonization, part writing, ear training, and sight singing. This course is a two semester course that encompasses the first two levels of Music Theory at most universities.

**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	<b>Theatre Arts I</b>	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	<b>Theatre Arts II</b>	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	<b>Theatre Arts III</b>	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	<b>Theatre Arts IV</b>	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	<b>Technical Theatre I</b>	9-12
4412	<b>Technical Theatre II</b>	10-12
4413	<b>Technical Theatre III</b>	11-12
4414	<b>Technical Theatre IV</b>	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	<b>Theatre Productions I</b>	10-12
4422	<b>Theatre Productions II</b>	11-12
4423	<b>Theatre Productions III</b>	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  
This is an advanced course offered by signature only to the most serious theatre student, offering the fundamental 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 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

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**4511 Art I** 9-12  
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

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**4522 Art II Intro to Drawing** 10-12  
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.*

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**4523 Art III Intermediate Drawing** 11-12  
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.*

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**4524 Art IV Upper Level Drawing** 12  
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.*

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**4532 Art II Intro to Painting** 10-12  
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.*

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**4533 Art III Intermediate Painting** 11-12  
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.*

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**4534 Art IV Upper Level Painting** 12  
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.*

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**4542 Art II Sculpture** 10-12

**4543 Art III Sculpture** 11-12

**4544 Art IV Sculpture** 12

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.*

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**4552 Art II Intro to Ceramics** 10-12  
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.*

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**4553 Art III Intermediate Ceramics** 11-12  
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.*

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**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.*

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**4562 AP 2-D Art and Design** 11-12  
This advanced placement course is for the highly motivated and serious artist who demonstrates an interest in pursuing art after high school. Students will work on a portfolio to submit to the College Board: 1. Select Works (pieces physically mailed to College Board) 2. Sustained Investigation (digital portfolio submitted online). Taking an additional art course in conjunction with AP Art is recommended.

**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.*

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**4563 AP 3-D Art and Design** 10-12  
This advanced placement course is for the highly motivated and serious artist who demonstrates an interest in pursuing art after high school. Students will work on a portfolio to submit to the College Board: 1. Select Works (pieces physically mailed to College Board) 2. Sustained Investigation (digital portfolio submitted online). Taking an additional art course in conjunction with AP Art is recommended.  
**Prerequisites** - Art I  
**Term:** Year **Credit:** 1.0 Fine Arts State Credit  
*This course receives AP/DC weighting in the GPA.*

**4564 AP Studio Art: Drawing Portfolio** 10-12  
This advanced placement course is for the highly motivated and serious artist who demonstrates an interest in pursuing art after high school. Students will work on a portfolio to submit to the College Board: 1. Select Works (pieces physically mailed to College Board) 2. Sustained Investigation (digital portfolio submitted online). Taking an additional art course in conjunction with AP Art is recommended.  
**Prerequisites** - Art I  
**Term:** Year **Credit:** 1.0 Fine Arts State Credit  
*This course receives AP/DC weighting in the GPA.*

**4565 AP Art History** 10-12  
This is an introductory college-level art history course. Students cultivate their understanding of art history through analyzing works of art and placing them in historical context as they explore concepts like culture and cultural interactions, theories and interpretations of art, the impact of materials, processes, and techniques on art and art making, and understanding purpose and audience in art historical analysis.  
**Prerequisites** - None (World History recommended)  
**Term:** Year **Credit:** 1.0 Fine Arts State Credit  
*This course receives AP/DC weighting in the GPA.*

**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.*

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**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

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**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

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**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

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

This class will be much more advanced than the Dance Team class. It will focus on the officers and leaders of 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.

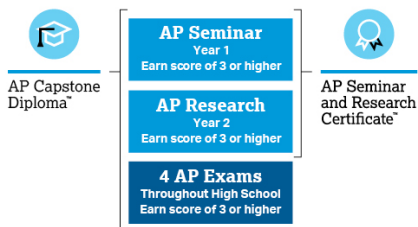
**Prerequisites** - Drill Team Officers & Leaders  
**Term:** Year **Credit:** 1.0 Fine Arts State Credit

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

# OTHER COURSES

## AP Capstone Program



### 4902 AP Seminar 11-12

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

### 4913 GT Independent Study I 11-12

This course is designed to allow students to pursue self-directed study in an area of personal interest. Students will be required to submit a proposal for a course of study, complete with a syllabus and an end-product that demonstrates mastery of the proposed topic. This class is wide open for the motivated student. MOOCs, business plans, mentorships, and original research are all examples of possible areas of study. Proposal forms for self-directed study topics must be submitted when course selections are due.

**Prerequisites** - Student Must Be Identified As Gifted And Talented/Admissions Committee Approval

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

*This course will be graded as pass/fail.*

### 4915 GT Independent Study II 12

This course is designed to allow students to pursue self-directed study in an area of personal interest. Students will be required to submit a proposal for a course of study, complete with a syllabus and an end-product that demonstrates mastery of the proposed topic. This class is wide open for the motivated student. MOOCs, business plans, mentorships, and original research are all examples of possible areas of study. Proposal forms for self-directed study topics must be submitted when course selections are due.

**Prerequisites** - Student Must Be Identified As Gifted And Talented/Admissions Committee Approval

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

*This course will be graded as pass/fail.*

### 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

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## 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 all 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

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### 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.*

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### 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

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### 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

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### 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

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### 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



## **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](https://www.misd.org/departments/career_and_technology_education)

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## 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 Floral Association-Level I Certification
  - Texas State Floral Association- Floral Skills Knowledge Based
  - Educational Aide I
  - Entrepreneurship and Small Business
  - Microsoft Office Specialist (MOS)- Word
  - Microsoft Office Specialist (MOS)- Excel
  - Microsoft Office Specialist (MOS)- Power Point
  - Intuit Quickbooks- Certified User
  - Adobe Certified Associate- Photoshop
  - Adobe Certified Associate- Illustrator
  - Adobe Certified Associate- Premiere Pro
  - ServSafe- Food Handler Safety Certification
  - ServSafe-Manager Certification
  - Certified Veterinary Assistant
  - American Welding Society (AWS) D1.1
  - American Welding Society (AWS) D9.1
  - Certified Clinical Medical Assistant (CCMA)
  - Certified Patient Care Technician (CPCT)
  - Real Estate Sales Agent License
  - Emergency Medical Technician (EMT) – Lone Star Technical Credit Course
  - 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 clusters are:

	<b>Agriculture, Food &amp; Natural Resources</b>	The <b>Agriculture, Food, and Natural Resources (AFNR) Career Cluster®</b> 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.
	<b>Architecture &amp; Construction</b>	The <b>Architecture and Construction Career Cluster®</b> focuses on designing, planning, managing, building, and maintaining the built environment. Principles of Architecture provides an overview to the various fields of architecture, interior design, and construction management.
	<b>Arts, A/V Technology &amp; Communications</b>	The <b>Arts, A/V Technology and Communications (AAVTC) Career Cluster®</b> 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.
	<b>Business, Marketing, &amp; Finance</b>	The <b>Business, Marketing and Finance Career Cluster®</b> focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations.
	<b>Education &amp; Training</b>	The <b>Education and Training Career Cluster®</b> 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.
	<b>Energy</b>	The <b>Energy Career Cluster®</b> prepares individuals for careers in the designing, planning, maintaining, generating, transmission, and distribution of traditional and alternative local energy.
	<b>Health Science</b>	The <b>Health Science Career Cluster®</b> 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.
	<b>Hospitality &amp; Tourism</b>	The <b>Hospitality and Tourism Career Cluster®</b> 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.
	<b>Human Services</b>	The <b>Human Services Career Cluster®</b> 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.
	<b>Information Technology</b>	The <b>Information Technology (IT) Career Cluster®</b> 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.
	<b>Law &amp; Public Service</b>	The <b>Law and Public Service Career Cluster®</b> 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.
	<b>Manufacturing</b>	The <b>Manufacturing Career Cluster®</b> 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.
	<b>Science, Technology, Engineering &amp; Mathematics</b>	The <b>Science, Technology, Engineering, and Mathematics (STEM) Career Cluster®</b> focuses on planning, managing, and providing scientific research and professional and technical services, including laboratory and testing services, and research and development services.
	<b>Transportation, Distribution &amp; Logistics</b>	The <b>Transportation, Distribution and Logistics Career Cluster®</b> 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.

## Agriculture, Food, and 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.



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

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

## Applied Agricultural Engineering

Course #	Course Name	Credit (s)
5110	Principles of Agriculture, Food, and Natural Resources	1
5131	Ag Mechanics and Metal Technologies	1
5132/5139 5133	Ag Structures Design and Fabrications/Lab Dual Credit Introduction To Welding (at Lone Star College - Conroe)	1-2 2
5137 5126/5127 5138	Ag Equipment Design and Fabrication Lab Practicum in AFNR Project Based Research- Ag Mechanics	2 2-3 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

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

### 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

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

### 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.*

### 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

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

### 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 AND Livestock Production or Animal Science or Equine Science/Small Animal

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

### 5126/5127 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 ag pathway.

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

*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 and successful completion of at least 2 other courses in the pathway.

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

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**5131 Ag Mechanics and Metal Technologies** 10-12

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. The course develops an understanding of tool operation, electrical wiring, plumbing, carpentry, and metalworking techniques.

**Prerequisites** - Principles of Agriculture

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

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**5132 Ag Structures Design and Fabrication** 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, Ag Mechanics & Metal Technologies

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

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**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.*

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**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, Ag Mechanics & Metal Technologies, Ag Structures Design and Fabrications

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

---

**5138 Project-Based Research-Ag 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 and successful completion of at least 2 other courses in the pathway.

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

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**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

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

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**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 AFNR and Floral Design

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

*This course does NOT receive advanced weighting in the GPA.*

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**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

**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

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

---

**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

*This course does NOT receive advanced weighting in the GPA.*

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**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 and successful completion of at least 2 other courses in the pathway.

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

## Architecture and Construction

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

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

## Architecture and Construction

### 5451 Interior Design I

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

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

Practicum in Architectural Design is an occupationally 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

### 5342 Career Preparation II

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

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.



## Digital Communications

Course #	Course Name	Credit (s)
5210	Principles of Arts, Audio/Video Technology and Communications	1
5211	Audio/Video Production I	1
5212	Audio/Video Production II	2
5213	Practicum in Audio Video Production	2

## Design Multimedia and Arts

Course #	Course Name	Credit (s)
5210	Principles of Arts, Audio/Video Technology and Communications	1
5411	Fashion Design I	
5214	Graphic Design and Illustration I	1
5442	Fashion Design II	2
5215	Practicum in Entrepreneurship	2
5341	Career Preparation	3

## Arts, A/V Technology and Communications

### 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

### 5211 Audio Video Production I 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 State Elective Credit

### 5212 Audio Video Production II 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.

**Prerequisites** - Principles of Arts, AV Technology, Audio Video Productions I

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

### 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

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

### 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

**5441 Fashion Design I** 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** 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

**5342 Career Preparation II** 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

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.



<b>Accounting and Financial Services</b>		
<b>Course #</b>	<b>Course Name</b>	<b>Credit (s)</b>
<b>5310</b>	Principles of Business, Marketing, and Finance	1
<b>5311</b>	Business Information Management I (BIM I)	1
<b>5320</b>	Money Matters or	1
<b>5321</b>	Accounting I	1
<b>5452</b>	Money Matters or	1
<b>5321</b>	Accounting I or	1
<b>5322</b>	Accounting II	1
<b>5137</b>	Accounting II	1
<b>1035</b>	Financial Mathematics	1
<b>5215</b>	Practicum in Entrepreneurship	2
<b>5341</b>	Career Preparation	3

<b>Business Management</b>		
<b>Course #</b>	<b>Course Name</b>	<b>Credit (s)</b>
<b>5310</b>	Principles of Business, Marketing, and Finance	1
<b>5311</b> <b>5332</b>	Business Information Management I (BIM I) or Business Law	1 1
<b>5312</b> <b>5331</b>	Business Information Management II (BIM II) or Business Management	1 1
<b>5215</b> <b>5341</b>	Practicum in Entrepreneurship Career Preparation	2 3

<b>Marketing and Sales</b>		
<b>Course #</b>	<b>Course Name</b>	<b>Credit (s)</b>
<b>5310</b>	Principles of Business, Marketing, and Finance	1
<b>5333</b> <b>5334</b>	Advertising AND Social Media Marketing	.5 .5
<b>5335</b> <b>5336</b>	Sports and Entertainment Marketing I AND Sports and Entertainment Marketing II	.5 .5
<b>5338</b> <b>5337</b> <b>5340</b> <b>5215</b> <b>5341</b>	Retail Management Marketing Fundamentals of Real Estate Practicum in Entrepreneurship Career Preparation	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

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**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

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**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,

**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

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**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

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**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** - Business Management

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

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**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

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**5334 Social Media Marketing** 10-12

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

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**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

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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

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**5338 Retail Management** 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

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**5337 Marketing** 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

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**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** 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

**5342 Career Preparation II** 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 *Beginning with the graduating class of 2026 this course will receive advanced weighting in the GPA.*

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

**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

## Hospitality and 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 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.



Culinary Arts		
Course #	Course Name	Credit (s)
5400	Principles of Hospitality & Tourism	1
5431	Introduction to Culinary Arts	1
5432	Culinary Arts	2
5433	Advanced Culinary Arts or	2
5215	Practicum in Entrepreneurship or	2
5341	Career Preparation	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

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**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

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**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*This course does NOT receive advanced weighting in the GPA.*

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**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.*

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**5341 Career Preparation I**

11-12

**5342 Career Preparation II**

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

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.



### Advanced Manufacturing and Machinery Mechanics

Course #	Course Name	Credit (s)
5817	Principles of Applied Engineering	1
5807	Robotics I	1
5808	Robotics II	1
5818	Engineering Design & Presentation I	1
5815/5819	Practicum in Manufacturing	2-3
5341	Career Preparation	3

# Manufacturing

## 5817 Principles of Applied Engineering 9-11

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

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## 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.*

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## 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.*

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## 5817 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.*

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## 5815/5819 Practicum in Manufacturing 12

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

*This course receives advanced weighting in the GPA. This course will fill 2 class periods in the student's schedule.*

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## 5341 Career Preparation I 11-12

## 5342 Career Preparation II 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

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.

Teaching and Training		
Course #	Course Name	Credit (s)
5420	Principles of Education and Training	1
5426	Child Development	1
5422	Instructional Practices	2
5423/5427 5341	Practicum in Education and Training Career Preparation	2-3 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

### 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 Education and Training

**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

### 5423 Practicum In Education and Training 12

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

*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

5342 **Career Preparation II** 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

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.



<b>Healthcare Therapeutic</b>		
<b>Course #</b>	<b>Course Name</b>	<b>Credit (s)</b>
<b>5510</b>	Principles of Health Science	1
<b>5512</b>	Medical Terminology	1
<b>5513</b>	Health Science Theory or	1
<b>1551</b>	Anatomy & Physiology or	1
<b>5515</b>	Pathophysiology	1
<b>1551</b>	Anatomy & Physiology or	1
<b>5515</b>	Pathophysiology or	1
<b>5526</b>	Practicum in Health Science- CCMA or	2
<b>5517</b>	Practicum in Health Science- PCT or	2
<b>5519</b>	Practicum in Health Science- EMT (Dual Credit @ Lonestar)	2

<b>Exercise Science and Wellness</b>		
<b>Course #</b>	<b>Course Name</b>	<b>Credit (s)</b>
<b>5528</b>	Kinesiology I	1
<b>5529</b>	Kinesiology II	1
<b>1551</b>	Anatomy & Physiology	1
<b>5530</b>	Project Based Research- Athletic Trainer	1
<b>1551</b>	Anatomy & Physiology	1
<b>5215</b>	Practicum in Entrepreneurship	2
<b>5341</b>	Career Preparation	3



# Health Science

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**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

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**5512 Medical Terminology** 10-12  
This course is designed to introduce student 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

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**5513 Health Science Theory** 11-12  
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 Medical Terminology

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

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**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 1.0 Science State Credit or State Elective Credit

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**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

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**5528 Kinesiology I** 9-10  
This course is designed to introduce students to the basic concepts of kinesiology. Students will gain an understanding of body mechanics, physiological functions of muscles and movements, the history of kinesiology, and the psychological impact of sports and athletic performance. This course is the first course in the Athletic Trainer Program.

**Prerequisites** - None

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

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**5529 Kinesiology II** 10-12  
The Kinesiology II course is designed to provide students an advanced level of knowledge, skills, and understanding of body composition and the effect on health, nutritional needs of physically active individuals, qualitative biomechanics, application of therapeutic modalities, appropriate rehabilitation services, and aerobic training intensity programs. This course is the second course in the Athletic Trainer Program.

**Prerequisites** - Kinesiology I

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

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**5530 Project-Based Research- Athletic Trainer** 11-12  
This course is designed as an extension of the student Athletic Trainer Program. Students will be working directly with an Athletic Trainer to learn about the rehabilitation of athletes and therapeutic modalities.

**Prerequisites** - Kinesiology I and Kinesiology II

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

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**5215 Practicum In Entrepreneurship** 12  
This course is designed as an extension of the student Athletic Trainer Program, and is the fourth and final course to be taken. Students will be working directly with an Athletic Trainer to learn about the rehabilitation of athletes and therapeutic modalities in a hands-on, work-based learning environment with student athletes.

**Prerequisites** -Kinesiology I, Kinesiology II, Project Based Research-Athletic Training

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

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

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**5516 Practicum In Health Science- Certified Clinical Medical Assistant** 12

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 must pass a background check and drug screen. Student must have a current flu vaccination, negative TB test, drivers license, provide their own transportation, and copy of insurance. Students are responsible for the following costs: OSHA & CPR Certification, and blood typing test.

**Prerequisites** - Principles of Health Science, Health Science Theory, Anatomy and Physiology (or concurrently)

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

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

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**5517 Practicum In Health Science- Patient Care Technician** 12

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** - Principles of Health Science, Health Science Theory, and Anatomy and Physiology (or Concurrently)

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

*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 **Dual Credit Emergency Medical Technician (at Lone Star College-Conroe)** 12

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. Student purchases textbook and provides uniform and proof of immunizations. Course completion requires three classes, EMSP 1305, EMSP 1160, and EMSP 1501 by the end of the school year. Course instruction provided at Lone Star College – Conroe Center.

**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*

5341	<b>Career Preparation I</b>	11-12
5342	<b>Career Preparation II</b>	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

## 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.



<b>Family and Community Services</b>		
<b>Course #</b>	<b>Course Name</b>	<b>Credit (s)</b>
<b>5410</b>	Principles of Human Services	1
<b>H510</b>	Lifetime, Nutrition & Wellness and (Offered at JH only)	.5
<b>H511</b>	Dollars and Sense (Offered at JH only)	.5
<b>5411</b>	Counseling and Mental Health	1
<b>5426</b>	Child Development	1
<b>5412</b>	Family and Community Services	1
<b>5413</b>	Project Based Research- Community Service	1

<b>Cosmetology</b>		
<b>Course #</b>	<b>Course Name</b>	<b>Credit (s)</b>
<b>5410</b>	Principles of Human Services	1
<b>5461</b>	Cosmetology I- Dual Credit at MOGO	2
<b>5462</b>	Cosmetology II- Dual Credit at MOGO	2
<b>5463</b>	Introduction to Cosmetology- Dual Credit at MOGO	1

# 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

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## 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

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

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## 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

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

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## 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

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

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## 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

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## 5461 Cosmetology I 11-12

## 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 their senior year and the required 1500 hours total, students will have received classroom training needed to prepare them for their Cosmetologist Exam from the Texas Department of Licensing and Regulations. This course is offered in partnership with MOGO Salon Academy.

**Prerequisites** - MOGO Salon Academy application required

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

*Tuition and fees (of approximately \$12,050) are payable to the MOGO Salon Academy. Payment plan is available*

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## 5463 Introduction to Cosmetology 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 their senior year and the required 1500 hours total, students will have received classroom training needed to prepare them for their Cosmetologist Exam from the Texas Department of Licensing and Regulations. This course is offered in partnership with MOGO Salon Academy.

**Prerequisites** - MOGO Salon Academy application required, Should be taken concurrently with Cosmetology II

## Law and 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.



Law Enforcement		
Course #	Course Name	Credit (s)
5610	Principles of Law, Public Safety, Corrections and Security	1
5463	Law Enforcement I	1
5461	Correctional Services	1
5411	Counseling and Mental Health	1
5415	Law Enforcement II or	1
5616	Dual Credit Criminal Justice at Lonestar College	1
5614	Forensic Science	1
5619/5620	Practicum in Law, Public Safety, Corrections and Security	2-3

Legal Studies		
Course #	Course Name	Credit (s)
5610	Principles of Law, Public Safety, Corrections and Security	1
5612	Court Systems and Practices	1
5332	Business Law	1
5600	Project Based Research- Legal Studies	1
5619/5620	Practicum in Law, Public Safety, Corrections and Security	2-3
5431	Career Preparation	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.

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**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.

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**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.

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**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.

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**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.

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**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 and Law Enforcement

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

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**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

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.

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**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 Law

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

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**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

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**5619/ Practicum in Law, Public Safety, Corrections and Security** 12

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.

**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.

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**5341 Career Preparation I** 11-12

**5342 Career Preparation II** 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

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.



<b>Cybersecurity</b>		
<b>Course #</b>	<b>Course Name</b>	<b>Credit (s)</b>
<b>5811</b>	PLTW Fundamentals of Computer Science	1
<b>5820</b> <b>5816</b>	Computer Science or AP Computer Science Principles	1
<b>5812</b> <b>5821</b> <b>5813</b>	AP Computer Science A or Networking or PLTW Cybersecurity	1 1 1
<b>5814</b>	Practicum in Science, Technology, Engineering and Mathematics (STEM)	2
<b>5822</b>	Project Based Research- Cybersecurity	1

<b>Engineering</b>		
<b>Course #</b>	<b>Course Name</b>	<b>Credit (s)</b>
<b>5817</b> <b>5801</b>	Principles of Applied Engineering PLTW Introduction to Engineering Design	1 1
<b>5802</b> <b>5803</b> <b>5804</b>	PLTW Civil Engineering and Architecture PLTW Aerospace Engineering PLTW Digital Electronics	1 1 1
<b>5805</b>	PLTW Principles of Engineering/Engineering Science	1
<b>5806</b> <b>5814</b>	PLTW Engineering Design and Development Practicum in Science, Technology, Engineering	1 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 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.*

## 5802 PLTW - Civil Engineering and Architecture 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 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

*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 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 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

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**5812 AP Computer Science A** 10-12

Focusing on further developing computational-thinking skills through the medium of Android™ App development for mobile platforms, this course utilizes industry-standard tools such as Android Studio, Java™ programming language, XML, and device emulators. Students collaborate to create original solutions to problems of their own choosing by designing and implementing user interfaces and Web-based databases. This course aligns with the AP CS A course. This course can count as both a state math credit and a foreign language credit.

**Prerequisites** – Fundamentals of Computer Science and Computer Science

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

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**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

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

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**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 CompTIA Security+.

**Prerequisites** – Fundamentals of Computer Science, Cybersecurity, and one additional pathway course

**Term:** Year **Credit:** 2.0 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.*

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**5816 AP Computer Science Principles** 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 State Foreign Language Credit

*This course receives AP/DC weighting in the GPA.*

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**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

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**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

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

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**5891 Dual Credit Basic Machine Shop I (at Lone Star College - Conroe)** 11-12

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.*

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**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.*



