



Midland Independent School District







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2023-2024  
High School Academic Guide  
and Course Catalog

***All students will graduate prepared and ready for college or career.***

# Midland ISD Secondary Campuses

## High School Campuses



-  **COLEMAN HIGH SCHOOL**  
1600 E. Golf Course Road  
Midland, Texas 79701  
432.240.4600
-  **EARLY COLLEGE HS**  
3600 North Garfield  
Midland, Texas 79705  
432.685.4641
-  **LEGACY HIGH SCHOOL**  
Main Campus  
3500 Neely Avenue  
Midland, Texas 79707  
432.240.2000
-  **MIDLAND HIGH SCHOOL**  
Main Campus  
906 W. Illinois Avenue  
Midland, Texas 79701  
432.240.3000
-  **Freshman Campus**  
1400 East Oak Avenue  
Midland, Texas 79705  
432.240.2400
-  **Freshman Campus**  
100 East Gist Avenue  
Midland, Texas 79701  
432.240.3400

## Junior High Campuses

### LHS FEEDER SCHOOLS

-  **Abell Junior High**  
3201 Heritage Blvd.  
Midland, Texas 79707  
432.240.2600
-  **Alamo Junior High**  
3800 W. Storey Avenue  
Midland, Texas 79703  
432.640.2800

### MHS FEEDER SCHOOLS

-  **Goddard Junior High**  
2500 Haynes Avenue  
Midland, Texas 79705  
432.240.3600
-  **San Jacinto Junior High**  
1400 North "N" Street  
Midland, Texas 79701  
432.240.3800

## Other Campuses

-  **ADVANCED TECHNOLOGY CENTER**  
3200 W Cuthbert Ave.  
Midland, Texas 79701  
432.240.2600
-  **YOUNG WOMEN'S LEADERSHIP ACADEMY**  
1800 E Wall St. .  
Midland, Texas 79701  
432.240.8700

# Midland Independent School District

Midland ISD Family,

The goal of Midland Independent School District is to ensure that every student will graduate prepared and ready for college and career. This purpose of this guide is to assist students in making making informed decisions throughout high school.

- Section I - Academic Guide: This section contains information on grade classifications, graduation programs, class rank, academic programming, transcripts, and other academic topics.
- Section II - Course Catalog: This section lists the courses that our high schools generally make available to students. However, it should be noted that not all of the courses listed are offered every year at every high school. Sufficient numbers of student requests for specific courses, staffing, and other factors impact whether or not a course is scheduled. All course offerings are subject to change. Please refer to the counseling office at your respective high school for more detailed information during the course selection process.

Your school counselors and other campus staff will provide insight and guidance in your decision-making processes. The Academic Guide is a general reference guide only and should not be considered comprehensive. Please be aware that it is not a complete statement of all policies, procedures, or rules that may be applicable in a given circumstance. If you or your child have questions about any of the material in this handbook, please contact your campus Administration.

- It is the policy of the Midland Independent School District not to discriminate on the basis of race, color, national origin, age, sex, or disability in its educational and career and technical education programs, services, activities or employment practices 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. Admission to these programs is based on grade placement, aptitude and interest.
- The Texas Education Agency and the Texas State Board of Education often update information, especially in the areas of assessment, accountability, and graduation plans. The information in this guide is accurate as of the time it went to print. This document is updated as information becomes available.
- This guide is intended as a reference and does not replace policy. Any extenuating circumstances are determined at the discretion of the principal.

# Midland Independent School District

## VISION STATEMENT

Excellence for all

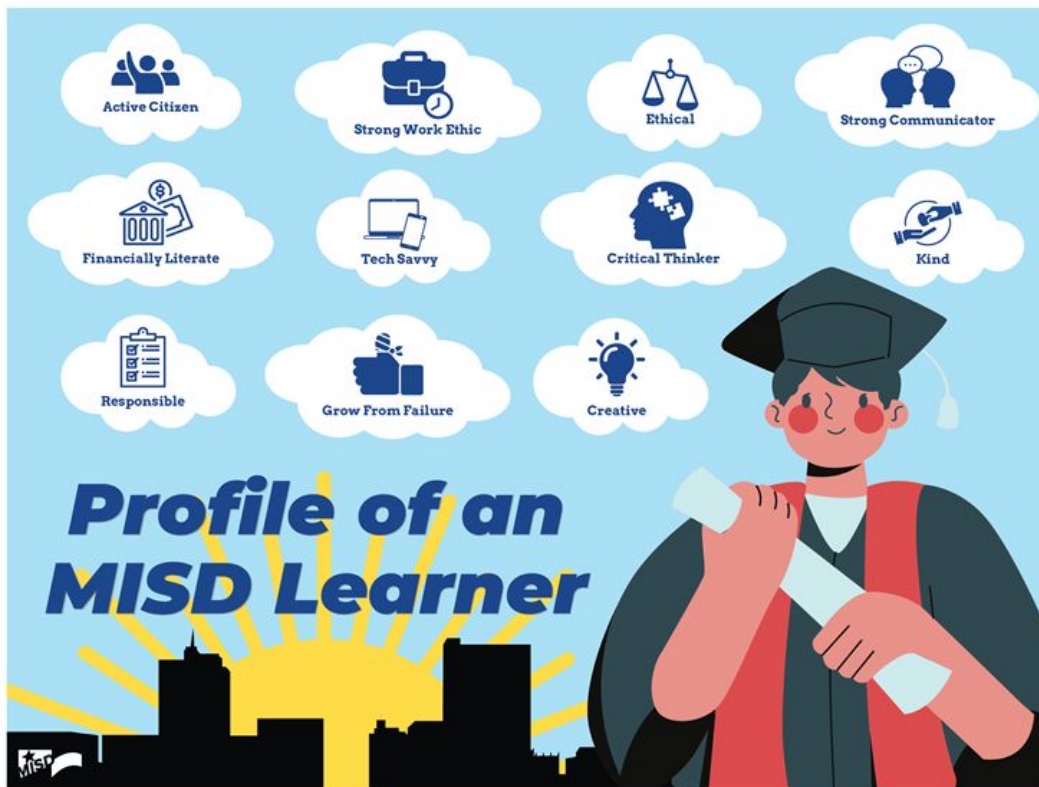
## MISSION STATEMENT

All students will graduate prepared and ready for college or career.

## DISTRICT GOALS

1. Advanced academics
2. Develop authentic relationships with the community
3. Meet the needs of diverse learners
4. Maintain a fiscally sound budget that equitably aligns resources
5. Become a high-performing organization

## PROFILE OF AN MISD LEARNER



These attributes drive the work of our educators and help represent our community values.

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# Section I - Academic Guide

# Section I: Academic Guide

## General Information

### Classification

Classification is determined at the beginning of each school year based on the number of credits the student has earned by that time. Students, grades 9-12, will be classified on the following basis:

Credits Earned	Student Classification
Promoted from 8th grade	Freshman (Grade 9)
6 Credits	Sophomore (Grade 10)
12 Credits	Junior (Grade 11)
18 Credits	Senior (Grade 12)

### Course Limitations

Some courses listed in this guide may not work with some students' schedules due to availability, scheduling conflicts, or cancellations resulting from limited enrollment; therefore, students should always plan for alternative courses in case their first choices are unavailable.

Courses listed in the College and Career Planning Guide in the year which the student enters the 9th grade may or may not be offered in subsequent years, and additional courses may be added in subsequent years. Courses may be offered but will not be scheduled unless enrollment is sufficient to do so. New courses may be added by the Texas Education Agency and the State Board of Education or by local decision at any time.

Graduation requirements with Endorsements are established by the State Board of Education and Legislature.

### Courses

Students should be enrolled in 7 classes per semester. Students enrolled in Career Preparation or a Practicum course must take a minimum of 5 classes a day. A senior who is not on the Foundation Plan with an endorsement and/or has not passed state assessments for graduation must be enrolled in seven (7) instructional classes per semester and will not be eligible for a reserve period.

To compete in UIL-sanctioned activities, students must be enrolled in school for a minimum of 5 credit bearing periods a day.

### High School Courses Offered in Junior High

Students who satisfactorily complete Spanish I, II, III, or GT/EAS Algebra I in junior high school will receive the state required graduation credit(s) for grades 9-12.

## Credits

Students are required to obtain approval in advance from the principal or appointed designee in order to take a distance learning course.

Students enrolled in grades 11-12 may be awarded credit toward high school graduation for completing college-level courses. Such courses are provided by Midland College (MC). Availability of dual credit classes is determined by teacher qualifications. A student interested in the dual credit enrollment program must apply to the counselor during the spring registration. The counselor will explain registration steps, the cost of tuition, and the granting of high school credit for dual credit courses.

Students must pass the reading and writing portion of the TSIA2 before enrolling in English and Spanish courses. Student must pass the reading portion of the TSIA2 to enroll in Economics, Government, History, Music and Science and students must pass the math and reading portion of the TSIA2 to take Computer Science and the math portion to take Mathematics. In addition, a Midland College placement test is required for ALL college-level math course.

## State Assessments

To graduate from high school in the state of Texas, students must have satisfactory performance on the five State of Texas Assessments of Academic Readiness (STAAR) End-of-Course Assessments for the following: English I, English II, Algebra I, Biology and U.S. History.

## Freshman Campuses

To assist ninth grade students with the transition from middle school to high school Midland Independent School District has two Freshman Schools – Legacy Freshman and Midland Freshman High Schools. Emphasis is placed on the development of the whole student – academics, extracurricular, and building positive relationships. The Freshman Schools have a staff to serve ninth grade students only.

## Students Transferring to Midland ISD

The following guidelines apply to the evaluation of the transcripts of students transferring to the Midland Independent School District:

- Units of credit granted by high schools accredited by the Texas Education Agency, Texas Private School Accreditation Association, other state education agencies, or Department of Defense Schools will be honored.
- Units of credit earned from non-accredited schools and home study programs will require validation according to the following guidelines:
  - Credit for elective courses may be accepted, subject to review.
  - Required courses that have no sequential course must be validated by examination or administrative approval. (Example: Geometry, World History, United States History).

## Special Populations

The special education department offers identified students with disabilities opportunities to develop abilities in the least restrictive environment. The ARD committee determines the course sequence for special education students as the graduation plan for each student is developed.



## Physical Education Substitutes

Students may receive TEA approved physical education credit for the following activities:

Activity	Semester	Credits
Athletics	1st and 2nd	Up to 4 credits
Cheerleading	1st and 2nd	1 credit only
Drill Team	1st and 2nd	1 credit only
Pep Squad	1st and 2nd	1 credit only
Marching Band	Semester 1 (Fall)	Up to 1 credit
JROTC	1st and 2nd	Up to 4 credits

Students may also receive physical education credit by participating in private or commercially-sponsored physical activity programs, such as dance or martial arts, which have been approved by the Superintendent or designee. Students interested in this program should contact the school counselor for an application and/or go to the [MISD Physical Education webpage](#).

### Physical Education Credit

- Uniforms may be required.
- Credit may not be earned for a PE course more than once and no more than four substitutions may be earned through any combination of allowable substitutions.
- See your counselor for more detailed information on courses that qualify for PE credit.

Note: Students are required to have 1.0 credit of physical education to meet high school graduation requirements. The substitution activities of athletics, drill team, cheerleading, marching band, and color guard\* may be awarded one P.E. credit toward graduation that may satisfy the physical education credit requirement. \*through participation in the extracurricular activity of marching band)

## College, Career, and Military Readiness (CCMR)

### What is College and Career Ready?

The mission of every staff member at Midland Independent School District is to graduate all students prepared and ready for college and career. Students can achieve readiness in any one of the following ways:

#### College ready:

- Meet criteria of 3 on AP examinations or 4 on IB examinations.
- Meet TSI criteria (SAT/ACT/TSIA/college prep course) in reading and mathematics.
- Complete a course for dual credit (nine hours or more in any subject or three hours or more in ELAR/mathematics).
- Earn an associate degree.
- Complete and OnRamps course in any subject and earn college credit.

#### Career ready:

- Earn an industry-based certification.
- Complete CTE coherent sequence coursework and receive credit aligned with approved industry-based certifications (half point awarded ONLY if the graduate meets no other CCMR indicator).
- Graduate with completed IEP and workforce readiness.
- Earn a Level I or Level II certificate.
- Graduate under an advanced degree plan and be identified as a current special education student.

#### Military ready:

- Enlist in the United States Armed Forces and produce the appropriate form for documentation.

# Credit By Examination

## Credit by Exam Without Prior Instruction

### Availability

Credit by Examination without prior instruction will be available to Midlands ISD students enrolled in grades 7-12. A list of credit by exams available to students can be found at the [Texas Tech Independent School District website](#).

### Utilization of Examination Scores

Credit for the respective course will be granted if a student scores at or above 80 on the placement examination. The examination score will be recorded on the academic achievement record transcript as the course grade.

## Credit by Exam With Prior Instruction

### Availability

Subject to the limitation and eligibility criteria outlined in these guidelines, the credit by examination with prior instruction process will be available to Midland ISD students enrolled in grades 7-12 who have failed any course that has a Credit by Exam available.

### Utilization of Examination Scores

Credit for the respective course will be granted if a student scores a grade at or above 70 on the examination. The examination score will be recorded on the academic achievement record transcript as the course grade.

### Examination

All examinations are purchased from Texas Tech University. Exams are given on MISD campuses by signing up with the campus counselor.

## Credit by Exam - Languages Other Than English

Midland ISD may allow speakers of the Languages Other Than English (LOTE) that are taught in MISD to be placed in higher levels of LOTE based on the student's proficiency level demonstrated on a proficiency placement test. Upon successful completion of the placement test, the student will receive credit for novice levels I and/or II.

The Texas Essential Knowledge and Skills for LOTE are similar from level to level with the proficiency level changing from in LOTE level I from novice-mid to novice high and then from novice high to intermediate low in LOTE level II. LOTE Level III proficiency levels are intermediate low to intermediate mid. All upper level TEKS for LOTE and proficiencies subsume the lower level TEKS for LOTE and proficiencies.

- Speakers of LOTE taught in MISD can take a MISD placement test which will allow them to place out of the novice levels of the language.
- The Director of Foreign Languages in conjunction with foreign language teachers will give the district placement test and make the recommendation for testing in coordination with counselors. This test will place the student at the appropriate level of the language and provide a grade.
- Teachers or counselors will notify parents of the recommendations and explain the procedure to the parents in order for the students to be placed.

## Credit by Exam - Languages Other Than English (cont'd)

- Teachers will give the recommendation with the appropriate parent communication documentation to the counselor before the student is placed in an upper level class.
- Texas Tech and UT Credit by Exam are still an option for students should they choose to accelerate by this method.
- These credentialing procedures are only for acceleration purposes.
- Existing MISD policy on CBE passing rates will apply.

### **Student Eligibility**

Unless excluded by the above limitation, a student will be permitted to attempt to receive credit by examination for a course if the following criteria are met:

- A written application which reflects parental approval has been submitted;
- The application is approved by the campus principal or designee.

# Determining Grade Point Average

The final grade point average (GPA) to determine the class rank for graduating students is computed by averaging the semester grades beginning with grade 9, unless a high school course is taken in Junior High and ending with the fifth six week grading period of the final year. The second semester average for the final year is determined by averaging the grades for the fourth and fifth six-week grading periods.

For students who entered grade 9 prior to the 2020-21 school year, MISD shall include in the calculation of class rank semester grades earned for high school credit only in designated courses regardless of the grade level in which the credit was earned, except as excluded in this policy. In the following subjects: English, mathematics, science, social studies, and languages other than English. MISD shall include in the calculation any failing semester grades, as well as semester grades in eligible courses for which credit was denied by an attendance committee; however, grades not resulting in credit shall be converted to zero grade points.

For students who enter grade 9 beginning in the 2022-2023 school year, the MISD shall include in the calculation of class rank semester grades earned in all high school state credit courses regardless of the grade level in which the credit was earned, except as excluded in this policy. The District shall include in the calculation any failing semester grades, as well as semester grades in eligible courses for which credit was denied by an attendance committee; however, grades not resulting in credit shall be converted to zero grade points.

The valedictorian and salutatorian shall be the eligible students with the highest and second highest ranking, respectively, based on weighted GPAs computed to the hundred-thousandths (fifth decimal) place. In case of a tie see the MISD Board Policies.

To be eligible for graduation honors described above, a student must:

- Have been continuously enrolled in the same high school in the District for the two school years immediately preceding graduation
- Have completed the requirements for graduating on the Foundation Program with the distinguished level of achievement.
- Be graduating after exactly eight semesters of enrollment in high school.

MISD will recognize as an honor graduate each student who has earned a cumulative weighted GPA of at least 3.5.

A+ = 98	A = 95	A - = 92	B+ = 88	B = 85	B- = 82
C+ = 78	C = 75	C- = 72	D = 70	F = 65	

A student may earn a maximum of one credit for a regular academic course, an advanced placement course, or a credit by examination\* course with the same Texas Education Agency course number or one which covers the same required essential knowledge and skills.

**Note** - Juniors who wish to graduate early must notify the campus registrar and counselor of intent to graduate early. The deadline will be the end of the fourth six-weeks grading period of the junior year. Students must meet with the Counselor and write a letter expressing their desire to graduate early, the Counselor and Principal will sign off on the letter.

**Credit by examination** - The District shall give a student in grades 6-12 credit for an academic subject in which the student has received no prior instruction if the student scores:

- Eighty percent or above on a criterion-referenced examination for acceleration for the applicable course;
- A three or higher on an advanced placement examination approved by the Board and developed by the College Board; or
- A scaled score of 60 or higher on an examination approved by the Board and administered through the College-Level Examination Program.

If such credit is given, the District shall enter the examination score on the student's transcript.

# Graduation Plan and Requirements

## Foundation High School Program with Endorsements (26 Credits)

Texas requires all students to begin high school with a four-year plan to earn at least 26 credits toward graduation with one of five endorsements. The five endorsements align to statewide programs of study toward future careers. Students are encouraged to consider their skills and interests as they select programs of study toward an endorsement.

### Endorsements

STEM	Business & Industry	Public Service	Arts & Humanities	Multidisciplinary Studies
An endorsement a set of classes that allows a student to dig into an area of interest to them. It's similar to a college major, allowing the student to learn more about a particular subject area. Students choose one or more endorsements out of 5 possibilities. Endorsement(s) will be reflected on student transcripts.				

### Graduation Requirements

English Language Arts	4 Credits: English I, II; English III or an AP English; and one credit in any authorized advanced English course
Mathematics	4 Credit:: Algebra I, Geometry, two credits in any authorized advanced math course (STEM must take Algebra II) Distinguished Level of Achievement: Algebra I, Geometry, Algebra II, one credit in any authorized advanced math course
Science	4 Credits: Biology, two credits in any advanced science course, one credit in IPC, Chemistry or Physics
Social Studies	4 Credits Highly Recommended (3 Required): World Geography, World History (highly recommended), U.S. History and Government/Economics are required
Physical Education	1 Credit: Required credit may be from any combination of .5 to 1 credit PE courses offered by Midland ISD. PE credit may be earned through participation in the following activities Athletics, Approved private/commercial, JROTC, Drill Team, Marching Band, and/or Cheerleading
Languages other than English	2 Credits: In the same language or 2 credits selected from Computer Science I, II
Fine Arts	1 credit
Electives	6 Credits: 4 must be from a single endorsement pathway.
<b>TOTAL CREDITS</b>	<b>26</b>

Students who complete the Foundation High School Program including Algebra II as one of four mathematics credits and the credit requirements specific to at least one endorsement will graduate with the Distinguished Level of Achievement. All students shall specify in writing the endorsement(s) the student intends to earn. Distinguished Level of Achievement allows students to be eligible for college admission under the top 10% automatic admissions provision. More information on endorsements can be found in the course catalog section

# Annual Graduation Plan Verification

In the the Spring, students will have an annual review of their graduation plan to assess progress, discuss necessary adjustments and update the plan to revise course choices in order to meet new or additional goals. **Students will adhere to the Program of Study they selected** during 8th grade course registration and course adjustments will only be made when necessary to meet graduation requirements.

## Performance Acknowledgements

A student may also earn Performance Acknowledgements that will be placed on the student's diploma and transcript. Performance Acknowledgements may be earned by completing the following:

Dual Credit	At least 12 hours of college academic courses, including those taken for dual credit as part of the Texas core curriculum and advanced technical credit courses and locally articulated courses, with a grade of the equivalent of 3.0 or higher on a scale of 4.0; or an associate degree while in high school.
Bilingualism or Biliteracy	<p>Completing all English Language Arts requirements and maintaining a minimum GPA of the equivalent of 80 on a scale of 100 and satisfying one of the following:</p> <ul style="list-style-type: none"> <li>● completion of a minimum of three credits in the same language in a language other than English with a minimum GPA of the equivalent of 80 on a scale of 100;             <ul style="list-style-type: none"> <li>○ demonstrated proficiency in the Texas Essential Knowledge and Skills for Level IV or higher in a language other than English with a minimum GPA of the equivalent of 80 on a scale of 100; or</li> <li>○ completion of at least three credits in foundation subject area courses in a language other than English with a minimum GPA of 80 on a scale of 100; or</li> <li>○ demonstrated proficiency in one or more languages other than English through one of the following methods:                 <ul style="list-style-type: none"> <li>■ score of 3 or higher on a College Board Advanced Placement exam for a language other than English, or</li> <li>■ score of 4 or higher on an International Baccalaureate Exam (IB) for a higher-level language other than English courses, or</li> <li>■ performance on a national assessment of language proficiency in a language other than English of at least Intermediate High or its equivalent.</li> </ul> </li> </ul> </li> <li>● ELL students must complete the above criteria and also have participated and met the exit criteria for a bilingual or ESL program and scored at the Advanced High level on the Texas English Language Proficiency Assessment System (TELPAS).</li> </ul>
Adv. Placement test or IB	A score of three or above on a college Board advanced placement examination; or a score of four or above on an International Baccalaureate examination for a higher-level course.
PSAT, ACT-Plan, SAT, or ACT	<ul style="list-style-type: none"> <li>● A score on the Preliminary SAT/National Merit Scholarship Qualifying Test (PSAT/NMSQT) that qualifies the student for recognition as a commended scholar or higher by the College Board and National Merit Scholarship Corporation, as part of the National Hispanic Recognition Program (NBHRP) of the College Board or as part of the National Achievement Scholarship Program of the National Merit Scholarship Corporation; or.</li> <li>● achieving the college readiness benchmark score on at least two of the four subject tests on the ACT PLAN exam; or</li> <li>● a combined critical reading and mathematics score of at least 1250 on the SAT; or</li> <li>● a composite score on the ACT exam (without writing) of 28.</li> </ul>
Business or Industry Certification or License	<ul style="list-style-type: none"> <li>● performance on an examination or series of examinations sufficient to obtain a nationally or internationally recognized business or industry certification; or</li> <li>● performance on an examination sufficient to obtain a government-required credential to practice a profession.</li> </ul>

## Foundation High School Program (22 Credits)

This option is the minimum graduation program available. However, it is not available until after the completion of the sophomore year. Changing to this graduation program will require parent and administrative approval in writing. Parents and students need to understand graduating on this program may not meet college or university entrance requirements.

English Language Arts	4 Credits: English I, I; English III or an AP English; and one credit in any authorized advanced English course
Mathematics	3 Credit: Algebra 1, Geometry, one credit in any authorized advanced math course
Science	3 Credits: Biology, one credit in IPC, Chemistry or Physics ; one credit in any advanced science course,
Social Studies	3 Credits: World Geography, U.S. History and Government/Economics are required. World History (highly recommended)
Physical Education	1 Credit: Required credit may be from any combination of .5 to 1 credit PE courses offered by Midland ISD. PE credit may be earned through participation in the following activities Athletics, Approved private/commercial, JROTC, Drill Team, Marching Band, Cheerleading
Languages other than English	2 Credits: In the same language or 2 credits selected from Computer Science I, II
Fine Arts	1 credit
Electives	5 Credits: 4 must be from a single endorsement pathway.
<b>TOTAL CREDITS</b>	<b>22</b>

### IMPORTANT NOTICE TO PARENTS

Students are eligible for admission to any general academic teaching institution (4-year state university) if they have completed the Foundation High School Plan with Endorsement. Students graduating on the Foundation High School Plan may not be eligible for admission to a 4-year university. The legislation also adds the requirement that students in the top 10 percent of their high school graduating class are eligible for automatic admission to institutions of higher education only if they have completed the Foundation Distinguished Level diploma program. The University of Texas at Austin accepts the top 7 percent.

## Exam Requirements

In addition to meeting graduation credit requirements, students are required to pass five end-of-course (EOC) exams to earn a diploma from a Texas public high school. Those five exams are given when a student takes English I, English II, Biology, Algebra I, and U.S. History. A student who fails an EOC exam for no more than two of five courses can still receive a diploma if he or she qualifies to graduate as a result of an individual graduation committee(IGC) review .

English I	Biology	English II	US History	Algebra I
9th Grade	9th/10th Grade	10th Grade	11th Grade	12th Grade

# Approved Advanced Level Courses

## Advanced Core Courses

Texas requires all students to begin high school with a four-year plan to earn at least 26 credits toward graduation with one of five endorsements. The five endorsements align to statewide programs of study toward future careers. Students are encouraged to consider their skills and interests as they select programs of study toward an endorsement.

English	
<ul style="list-style-type: none"> <li>English IV</li> </ul>	
Mathematics	
<ul style="list-style-type: none"> <li>Algebra II or EAS Algebra II</li> <li>AP Calculus AB</li> <li>AP Calculus BC</li> <li>AP Computer Science</li> <li>AP Statistics</li> <li>Calculus</li> <li>Independent Study in Math</li> <li>Mathematical Models with Applications**</li> <li>Pre-calculus or EAS Pre-calculus</li> </ul>	<ul style="list-style-type: none"> <li>Robotics II (CTE)</li> <li>Algebraic Reasoning</li> <li>Financial Mathematics (CTE)</li> <li>Engineering Mathematics</li> <li>Discrete Mathematics for Problem Solving</li> <li>Advanced Quantitative Reasoning</li> <li>Accounting II (CTE)</li> <li>Pre-calculus or EAS Pre-calculus</li> </ul>
Science	
<ul style="list-style-type: none"> <li>Anatomy &amp; Physiology (CTE)</li> <li>AP Biology</li> <li>AP Chemistry</li> <li>AP Environmental Science</li> <li>AP Physics I: Algebra-Based</li> <li>AP Physics II: Algebra-Based</li> <li>Chemistry or EAS Chemistry</li> <li>Environmental Systems</li> <li>Earth and Space Science</li> </ul>	<ul style="list-style-type: none"> <li>Advanced Animal Science (CTE)</li> <li>Food Science (CTE)</li> <li>Forensic Science (CTE)</li> <li>Scientific Research and Design (CTE)</li> <li>Engineering Design/Problem Solving (CTE)</li> <li>Physics</li> <li>AP Physics C: Mechanics</li> <li>AP Physics C: Electricity and Magnetism</li> <li>Astronomy</li> </ul>

\*Subject to being updated at any time by the Texas Education Agency and the State Board of Education.

\*\*May be taken after Algebra I in any sequence but will only count as a student's third math

## Advanced CTE Courses

Advanced level Career and Technical Education (CTE) course offerings are outlined in 2 different sections of this document-the Endorsement Guide and the Program of Study Info Sheets. The courses identified as Level III or Level IV are advanced courses.

- Jump to the Endorsement Guide
- Jump to the Programs of Study Info Sheets



## Purpose of AP

Advanced Placement courses are college level courses taken by high school students in which they may receive college credit by passing a national exam. Students must take an AP exam, and receive a qualifying score to receive college credit. Colleges and universities set their own standards for awarding credit. Over 90% of the U.S. colleges and universities as well as those in twenty other countries award credit for AP exams.

AP courses are taught by high school teachers or university professors who receive College Board training. Since AP students are working on a college level, AP courses are designated as Enhanced courses, and the students receive additional points toward their GPA. All AP courses are open to students in grades 9-12 who are in good academic standing and have met the AAS entry guidelines.

## AAS Entry and Maintenance Standards

The standards can be found on the MISD Advanced Academics [webpage](#) or by calling Judy Bridges, the Director of Advanced Academics at 432-240-1355.

## New Students to Midland ISD

A student new to Midland ISD who has been enrolled in/or approved for an Advanced Placement, EAS or honors program or the equivalent in a previous school will be offered similar placement in the Midland ISD Advanced Academic Services.

English	Mathematics	Science
<ul style="list-style-type: none"> <li>• EAS English I</li> <li>• EAS English II</li> <li>• AP English III</li> <li>• AP English IV</li> </ul>	<ul style="list-style-type: none"> <li>• EAS Algebra I</li> <li>• EAS Geometry</li> <li>• EAS Algebra II</li> <li>• EAS Precalculus</li> <li>• AP Calculus</li> <li>• AP Statistics</li> <li>• AP Computer Science A</li> </ul>	<ul style="list-style-type: none"> <li>• EAS Biology</li> <li>• EAS Chemistry</li> <li>• AP Biology</li> <li>• AP Chemistry</li> <li>• AP Physics 1: Alg. Based</li> <li>• AP Physics 2: Alg. Based</li> <li>• AP Physics C</li> <li>• AP Environmental Science</li> </ul>
Fine Arts	Social Studies	Languages other than English
<ul style="list-style-type: none"> <li>• AP Music Theory</li> <li>• AP 2D Design Portfolio</li> <li>• AP 3D Design Portfolio</li> <li>• AP Art/Drawing Portfolio</li> <li>• AP Art/Drawing Portfolio</li> </ul>	<ul style="list-style-type: none"> <li>• EAS World Geography</li> <li>• EAS Texas History</li> <li>• EAS US History</li> <li>• EAS World History</li> <li>• AP Macroeconomics</li> <li>• AP Microeconomics</li> <li>• AP US History</li> <li>• AP US Govt. and Politics</li> <li>• AP Psychology</li> </ul>	<ul style="list-style-type: none"> <li>• EAS Spanish III</li> <li>• AP Spanish Language and Culture</li> <li>• AP Spanish Lit and Culture</li> <li>• EAS French III</li> <li>• AP French Language and Culture</li> <li>• EAS German III</li> <li>• AP German Language and Culture</li> <li>• EAS Latin III</li> <li>• AP Latin</li> </ul>

For additional information, see your counselor and visit [www.apcentral.collegeboard.com](http://www.apcentral.collegeboard.com)

# Dual Credit Courses

MISD and Midland College cooperate in a dual credit enrollment plan whereby junior and senior students may earn both credit for high school graduation and credit for college hours simultaneously. Availability of dual credit classes is determined by teacher qualifications.

Student enrolled in specified MISD courses during the regular school year will also be given the option of registering with Midland College for the corresponding college course. Upon successful completion of the course, both credit for high school graduation and credit for college hours will be awarded.

Students must pass the reading and writing portion of the TSIA2 before enrolling in English and Spanish courses. Students must pass the reading portion of the TSIA2 to enroll in Economics, Government, History, Music and Science and students must pass the math and reading portion of the TSIA2 to take Computer Science and the math portion to take Mathematics. In addition, a Midland College placement test is required for ALL college-level math courses.

A student who is interest in the dual credit enrollment program must apply to the counselor during the spring registration. The counselor will explain registration steps, the cost of tuition, and the granting of high school credit for dual credit courses.

Dual credit courses taught at Legacy High School and Midland High school are listed below, together with the College Course Title and number.

## Midland ISD Dual Credit Course Offerings - Non-CTE

MISD Course	Spring	LHS	MHS	Fall	LHS	MHS
AP English Lang. & Comp	ENGL 1301 English Composition I	✓	✓	ENGL 1302 English Composition I	✓	
AP English Lit. & Comp	ENGL 2322 British Literature I	✓	✓	ENGL 2323 British Literature II	✓	
AP US Government	GOVT 2305 Federal Government	✓	✓	GOVT 2305 Federal Government	✓	✓
AP US History	HIST 1301 US History I	✓	✓	HIST 1301 US History II	✓	
Precalculus EAS	MATH 1314 College Algebra	✓	✓	MATH 2412 PreCalculus	✓	
AP Calculus BC	MATH 2413 Calculus I	✓	✓	MATH 2414 Calculus II	✓	
Spanish III EAS	SPAN 1411 Beginning Spanish I	✓		SPAN 1412 Beginning Spanish II	✓	
AP Spanish Lang. & Comp	SPAN 2311 Intermed. Spanish I	✓		SPAN 2312 Intermed. Spanish II	✓	

# Dual Credit Registration

Dual Credit is a two part registration process! Both parts (MC and MISD) need to be completed in order to receive college credit!

Students must complete the following Midland College Dual Credit Requirements:

1. [Online Apply Texas Application](#)
2. [Complete the TSI Test](#)
3. [Parent/Student Agreement Form](#)
4. [Register](#)
5. [Pay Your Tuition](#)

January	February
<ul style="list-style-type: none"> <li>● Attend dual credit registration meeting at your high school!</li> <li>● Complete the <a href="#">MC Dual Credit Interest Form</a></li> <li>● Complete the Online Dual Credit <a href="#">Parent/Student Agreement Form</a></li> </ul>	<ul style="list-style-type: none"> <li>● Discuss next steps with your counselor at your Graduation Plan Verification Meeting.</li> <li>● Complete <a href="#">Online Apply Texas Application</a> for Dual Enrollment. Apply Texas <a href="#">Video Tutorial</a></li> </ul>
March	April
<ul style="list-style-type: none"> <li>● Test Scores and Meningitis documentation will be submitted by high school to MC.</li> <li>● Please see test schedule insert for testing schedule</li> <li>● Apply for MISD Dual Credit Scholarships</li> </ul>	<ul style="list-style-type: none"> <li>● Course list is mailed to students</li> <li>● Take the Math Placement Exam at Midland College for Dual Enrollment if you do not meet exemption status.</li> <li>● TSI testing April LHS/MHS campuses</li> </ul>
May - August	
<p>After you receive your high school schedule, enroll in college courses at MC.</p> <ul style="list-style-type: none"> <li>● Enroll online via <a href="#">MyMC Portal</a> - Note: You will need your MC Student ID number and PIN to enroll online. OR</li> <li>● Enroll in person at the Scharbauer Student Center.</li> <li>● Pay your tuition - Pay in person at the Scharbauer Student Center. Failure to pay will result in being dropped from classes.</li> <li>● Any course taken on campus at MC requires proof of a a current Meningitis Vaccination.</li> </ul>	

# Dual Credit - Career and Technical Education

At Midland ISD, our priority is preparing all students for college and career. Our College and Career Academies are an extension of our standard CTE Programs of Study that incorporate dual credit tracks that lead to certifications. In partnership with Midland College (MC), we offer students a variety of program options.

As early as the 9th grade, students are able to embark on pathways that enable them to fulfill high school graduation requirements and earn college credits leading to industry certifications and university transfer programs.

Visit the [CTE website](#) for more information on the College and Career Academies Application and Selection Process.

Check out the Midland ISD CTE Programs of Study.

# What Counts in College Admission?

## Factors Influencing Admissions Decisions

The single most important credential in the applicant's folder is his/her academic record, particularly the junior year and the first half of the senior year. Usually you can help your college chances by making a strong effort to improve your course selections and grades during this time, showing you are "on the way up." College preparatory courses taken throughout high school are the most important factor in the college admission decision and will receive scrutiny by admissions officers.

### NACAC Annual Admissions Survey

1. Grades in Academic/Challenging Courses
2. SAT/ACT Scores
3. Grades in All Subjects
4. Class Rank
5. Essay
6. Teacher/Counselor Recommendations
7. Community Service
8. Work/School Activities

The college admissions process is complex. Here are some points that you may find valuable.

Standardized examinations play a major role in the admission process. Students should take the PSAT, SAT, and ACT during their junior year. These scores are considered reliable predictors for college success when combined with high school grades in academic courses and rank in class.

Extracurricular activities, community service, and holding a part time job, play an important role in the admissions process. Colleges frequently state they look for students who will make a significant contribution to the college community. Because around 70% to 80% of all students can handle the academics, colleges often look for that extra dimension – musicians, editors, actors, photographers, athletes and others with a developed and usable talent as well as students with leadership qualities. Students with superior ability in these areas can expect to receive a special review by faculty with expertise and careful consideration by the admissions office.

For most competitive colleges, recommendations are an essential part of an applicant's file. The exceptions to this rule are large state universities where written recommendations are often not required or given as much weight. Recommendations describe not only achievements and skills, but also character, motivation, integrity and patterns of growth. Teachers' reports also play an important role in selection process, particularly when the teachers know the student well and are willing to detail potential in specific areas.

Correspondence with colleges should be initiated and followed up by the student. Many college admissions people see this as a reflection of a student's sense of responsibility and independence. It also indicates such items as accuracy, clarity, courtesy, and maturity. If there is a particular problem on the school record or the application that needs further clarification, the student should feel free to write the college. Just as colleges keep files on students, students should keep files on the colleges. Included in the files should be copies of letters, notes, and drafts of essays. Your guidance counselor and English teacher are excellent resources when corresponding with colleges, filling out applications, and writing the required essays.

## Early Planning

### Counselors Advise College Planning to Begin Early

College entrance requirements vary from college to college. You would be very wise to begin examining college entrance requirements no later than the beginning of your freshman year.

If you have already passed that point, don't despair. Come to the Counseling Office and/or Library where you will find a variety of college and university catalogs which will list just what you need to enter a particular college.

All colleges require a high school diploma or its equivalent. Four-year colleges and universities usually require students to submit SAT or ACT scores. For more information, visit the [College Board](#) and [ACT](#) websites.

You should refer to the website or catalog of each school to be sure that you have met their very specific entrance requirements

Advanced Planning Is Important: Do you remember that four-year plan you made in the eighth grade? By now, you have probably realized that the plan was designed to help you see that graduation does not happen unless you make and follow careful plans.

Your preliminary graduation plan was never intended to be permanent and unchangeable. In fact, it is subject to change almost every year during spring registration. As you learn about new courses and your educational needs change, your graduation plans change accordingly. Now is the time to think about those early choices. Are they still appropriate for your needs? If not, you should make new choices when you come to your assigned registration time. Note the requirements for each type of transcript within this publication and discuss them with your counselor and parents. Credits May be Acquired through Special Programs: Correspondence courses may be taken through Texas Tech University Extension Services. Counselors will aid students in signing up for the correspondence courses, but successful completion of such courses is the student's responsibility. MISD will also accept credits earned through examinations. Credit by exams for purposes of acceleration or remediation are available through Texas Tech as provided by the Texas Education Agency. Counselors will provide application forms and guidelines and facilitate student registration for credit by exams. Students who have had prior instruction in a course, earned a grade not below 60, and have met compulsory attendance rules may take a credit by exam and gain credit if the score is 70 or better. Students who have not had prior instruction and wish to accelerate with a credit by exam must have a score of at least an 80. Correspondence courses must be completed two weeks prior to the end of the semester.

## Early Admissions

Students may take classes for college credit at Midland College during the school year. The TSI requirement must first be fulfilled. Students must be approved by their counselor/high school principal before enrolling. An early admission is not the same program as dual enrollment.

**Texas Success Initiative (TSI)** - Students planning to attend a Texas state-supported two-year or four-year college or university must meet TSI standards before enrolling or be exempt by making a high SAT, ACT or EOC score. Students who take Dual classes will be enrolled in Midland College; therefore, they also must meet the TSI standard as outlined by the college before registering for dual courses. It is the student's responsibility to provide these scores to Midland College. Graduates must check with Midland College regarding the criteria for TSI exemption before enrolling in concurrent courses.

**SAT** – Test administered prior to 3-5-16: 1070 minimum combined critical reading and Math scores and 500 minimum on critical reading test, shall exempt for both reading and writing of the TSI; a combined critical reading and math score of 1070 with minimum of 500 on mathematics shall exempt for the mathematics section of TSI.

**SAT** – Test administered on or after 3-5-16: 480 minimum score on the Evidenced-Based Reading and Writing test shall exempt for both reading and writing of TSI. A minimum score of 530 on mathematics test shall exempt for the mathematics section of TSI. There is no combined score.

**ACT** – 23 composite score and 19 minimum on both the English and Math tests

# Scholarships

## Legacy Scholarship

In 1986, Abell-Hanger Foundation established a Midland College scholarship ([Legacy Scholarship](#)) that paid tuition for Midland County high school graduates. In 2003, Helen Greathouse Charitable Trust partnered with Abell-Hanger Foundation, and the scholarship was named Midland's Legacy Scholarship. In 2006, a third Midland family foundation, Chaparral Foundation, joined this rich tradition of supporting MC students in their pursuit of higher education. That tradition continued to grow when Scharbauer Foundation united with the other three family foundations to support this great educational legacy.



Gladys  
Abell



George  
Abell



Helen  
Greathouse



Barney  
Greathouse



Harriet  
Herd



Harvey  
Herd



Dorothy &  
Clarence  
Scharbauer

Check your campus website for more [scholarship opportunities](#).

## Honor Societies | Scholars | Academic Awards

### National Honor Society

Membership in the [National Honor Society \(NHS\)](#) is a special honor bestowed upon students by the local chapter. Selection for membership is based upon four criteria: scholarship, leadership, service, and character.

To be considered for membership, LHS and MHS students must be juniors or seniors, must have been in attendance at the inducting campus at least one semester, and have an overall grade point average of at least 3.5 on a 5.0 scale.

A faculty council appointed by the principal makes the final selection by verifying candidate information such as attendance data, discipline records, and voluntary teacher comments. Those students receiving a majority vote of the faculty council are invited to membership and initiated at an annual fall ceremony. To safeguard membership and graduate as NHS members students must maintain these same criteria.

### National Technical Honor Society

The [National Technical Honor Society](#) serves over 180,000 student members annually nationwide. In 2016, NTHS will award over \$200,000 in scholarships to career and technical education students. NTHS honors the achievements of top CTE students, provides scholarships to encourage the pursuit of higher education, and cultivates excellence today's highly competitive, skilled workforce. MISD has two chapters at Legacy and Midland High.

## Midland ISD Community Scholars Recognition

### Midland Scholars

The [Midland Scholars program](#) is sponsored by MISD. The program's mission is to encourage all secondary students to enroll in and complete challenging coursework which will enable them to compete in the highly technological global economy of the 21st century.

To become a Midland Scholar, students must complete the Foundation Plus Graduation Plan. Students must maintain a 1.75 GPA on a 5.0 system and graduate. Students must also complete 20 hours of community service during their high school years, starting the summer of their Freshman year. Seniors should complete and turn in a [record](#) of all volunteer hours by the end of the 4th six weeks to the counselor clerk on their campus.

School Counselors will speak to all ninth-grade students in order to emphasize the importance of a high-quality academic preparation. This presentation allows the students to recognize the high cost of living in today's environment and the difficulty of surviving financially without a quality education.

Midland Scholars are provided with high levels of academic skills needed to secure a good job instead of settling for minimum wage or unstable employment. They will have the quality of education that will enhance their opportunity to seek higher educational programs.

## Academic Awards

Students entering 9th grade must achieve a 90 overall average in the Spring semester of their 8th grade year in the core subject of English, Math, Science and Social Studies, and Foreign Language, and a 3.5 overall grade point average, on a 5.0 scale, the fall semester of their 9th grade year. The Freshman class would in subsequent years be required to achieve a 3.5 overall grade point average, on a 5.0 scale, during two previously completed consecutive semesters in secondary school. For consideration for an academic award, students new to MISD must present verifiable documentation that they have met the requirements.

# Section II - Course Catalog



# Section II: Course Catalog

## Midland ISD Course Offerings

### Core Course Offerings

#### 9th Grade

<u>English</u>	<u>Mathematics</u>	<u>Science</u>	<u>Social Studies</u>
ELA100 - English I ELA101 - English I EAS ELA102- English I G - EAS	MAT100- Algebra I MAT101- Algebra I EAS	MAT200- Geometry MAT201- Geometry EAS MAT202- Geometry G - EAS	SCI100- IPC SCI201- Biology EAS SCI202- Biology G - EAS
			SST100- World Geography SST103- World Geography EAS SST101- AP Human Geography SST102- AP Human Geography G

#### 10th Grade

<u>English</u>	<u>Mathematics</u>	<u>Science</u>	<u>Social Studies</u>
ELA200- English II ELA201- English II EAS ELA202- English II G - EAS	MAT200- Geometry MAT201- Geometry EAS MAT202- Geometry G-EAS	MAT400- Algebra II MAT401 - Algebra II EAS MAT402- Algebra II G - EAS	SCI200- Biology SCI201- Biology EAS SCI202- Biology G - EAS
			SCI300- Chemistry SCI301- Chemistry EAS SCI302- Chemistry G - EAS
			SST200- World History SST201- AP World History SST202- AP World History G

#### 11th Grade

<u>English</u>	<u>Mathematics</u>	<u>Science</u>	<u>Social Studies</u>
ELA300- English III ELA301- English III D ELA302- AP Eng Lang & Comp ELA303- AP Eng Lang & Comp D ELA304- AP Eng Lang & Comp G ELA305- AP Eng Lang & Comp GD	MAT410- Algebraic Reasoning MAT300- Math Models MAT400- Algebra II MAT401- Algebra II EAS MAT402- Algebra II G - EAS	MAT440- Pre-Calculus MAT442- Pre-Calculus EAS D MAT441- Pre-Calculus EAS MAT443- Pre-Calculus G - EAS MAT444- Pre-Calculus G - EAS D	SCI300- Chemistry SCI301- Chemistry EAS SCI302- Chemistry G - EAS SCI310- Physics I (suggested) SCI312- AP Physics I G
			SCI311- AP Physics I SCI402- Earth and Space SCI410- Adv. Animal Sci SCI411- Forensic Science SCI400- Enviro. Systems SCI401- Astronomy
			SST300- US History SST301- AP US History SST303- AP US History G SST302- AP US History D SST304- AP US History G D

#### 12th Grade

<u>English</u>	<u>Mathematics</u>	<u>Science</u>	<u>Social Studies</u>
ELA400- English IV ELA401- English IV D ELA402- English IV AP ELA403- English IV AP D ELA404- English IV AP GT ELA405- English IV AP GT D ELA500- College Prep ELA	MAT440- Pre-Calculus MAT442- Pre-Calculus EAS D MAT441- Pre-Calculus EAS MAT443- Pre-Calculus G - EAS MAT444- Pre-Calculus G - EAS D MAT500- AP Calculus AB MAT505- AP Calculus BC MAT506- AP Calculus BC D MAT507- AP Calculus BC G	MAT508- AP Calculus BC G D MAT310- Financial Math MAT320- Accounting II MAT430- Math College Prep MAT420- Adv. Quantitative Reas. MAT515- AP Comp Science A MAT515- AP Comp Science A G MAT450- Stats & Bus Dec. Making MAT510- AP Stats	SCI310- Physics I SCI312- AP Physics I G SCI311- AP Physics I SCI402- Earth and Space SCI410- Adv. Animal Science SCI411- Forensic Science SCI400- Enviro. Systems
			SCI407- Anatomy & Phys. SCI409- Anatomy & Phys. H SCI408- Anatomy & Phys. G SCI203- AP Biology SCI205- AP Biology G SCI403- AP Envir. Science SCI405- AP Envir. Science G 5165 - Government (0.5)
			SST401- AP Government SST402- AP Government D SST403- AP Government G SST404- AP Government G D ASS410- Economics (0.5) SST441/415 - AP Mic/Mac Econ SST513/417- AP Mic/Mac Econ G SST412/416- AP Mic/Mac Econ D SST414/418 - AP Mic/Mac Econ DG

# Languages Other Than English Course Offerings

## Languages Other Than English (LOTE)

Level I	Level II	Level III	Level IV
FRN100- French I	FRN200- French II	FRN300- French III FRIN301- French III EAS	FRN400- French IV FRN401- AP French IV
GER100- German I	GER200- German II	GER300- German III GER301- German III EAS	GER400- German IV GER401- AP German IV
SPA100- Spanish I	SPA200- Spanish II	SPA300- Spanish III SPA301- Spanish III EAS SPA302- Spanish III EAS D	SPA400- Spanish IV SPA401- AP Spanish Lang SPA402- AP Spanish Lang D SPA500- Spanish V SPA501- AP Spanish Lit SPA502- AP Spanish Lit D
	LOT100- AP Computer Science Prin.	LOT200- AP Computer Science	

# Fine Arts Course Offerings

## Fine Arts

Level I	Level II	Level III	Level IV	Comments
MUS100- Band I (1) PED120- Marching B I (.5 PE)	MUS200- Band II (1) PED220- Marching B II (.5 PE)	MUS300- Band III (1)	MUS400- Band IV (1)	
	MUS110- Jazz Ensemble (1)	MUS201- Jazz Ensemble II (1)	MUS301- Jazz Ensemble III (1)	
MUS150- Choir I	MUS250- Choir II	MUS350- Choir III	MUS450- Choir IV	
MUS160- Vocal Ensemble I *	MUS260- Vocal Ensemble II *	MUS360- Vocal Ensemble III *	MUS460- Vocal Ensemble IV *	LHS - Chorale
DAN100- Dance I	DAN200- Dance II	DAN300- Dance III	DAN400- Dance IV	
MUS101- Color Guard I *	MUS201- Color Guard II *	MUS301- Color Guard III *	MUS401 - Color Guard IV *	
MUS120- Orchestra I	MUS220- Orchestra II	MUS320- Orchestra III	MUS420- Orchestra IV	
MUS130- Instr. Ensemble I *	MUS230- Instr. Ensemble II *	MUS330- Instr. Ensemble III *	MUS430- Instr. Ensemble IV *	LHS - StrictLee Strings MHS - Mystique
MUS140-Mariachi 1	MUS40-Mariachi 2	MUS140-Mariachi 3	MUS240-Mariachi 14	
THE100- Theatre Arts I	THE200- Theatre Arts II	THE300- Theatre Arts III	THE400- Theatre Arts IV	
THE110-Theatre Production I *	THE210- Theatre Prod. II *	THE310- Theatre Prod. III *	THE410- Theatre Prod.n IV*	
	THE120- Technical Theatre I	THE220- Technical Theatre II	THE320- Technical Theatre III	
ART100- Art I	ART201- Art II - Drawing	ART300- Art III	ART400- Art IV OR ART500- AP Studio Art	

# Athletics and Physical Education Offerings

Athletics & Physical Education				
Level I	Level II	Level III	Level IV	PE Courses
ATR100- Athletic Training I	ATR200 - Athletic Training II	ATR300 - Athletic Training III	ATR400 - Athletic Training IV	PED103 - PE Foundations
BAS100 - Baseball I	BAS200 - Baseball II	BAS300- Baseball III	BAS400 - Baseball IV	PED104 - Individual/Team Sports
BSK100 - Basketball I (Boys)	BSK200 - Basketball II (Boys)	BSK300 - Basketball III (Boys)	BSK400 - Basketball IV (Boys)	PED102 - Aerobic Activity (Dance)
BSK110 - Basketball I (Girls)	BSK210 - Basketball II (Girls)	BSK310 - Basketball III (Girls)	BSK410 - Basketball IV (Girls)	PED130- ROTC (PE)
XCC100 - Cross Country I	XCC200 - Cross Country II	XCC300 - Cross Country III	XCC400 - Cross Country IV	PED120 - Marching Band I
DIV100- Diving I	DIV200- Diving II	DIV300- Diving III	DIV400 - Diving IV	PED220 - Marching Band II
FTB100- Football I	FTB200 - Football II	FTB300 - Football III	FTB400 - Football IV	PED115 - Drill Team
GOF100 - Golf I (Boys)	GOF200 - Golf II (Boys)	GOF300- Golf III (Boys)	GOF400- Golf IV (Boys)	PED110 - Cheerleading
GOF110- Golf I (Girls)	GOF210 - Golf II (Girls)	GOF310 - Golf III (Girls)	GOF410 - Golf IV (Girls)	
POW100- Powerlifting I	POW200- Powerlifting II	POW300- Powerlifting III	POW400- Powerlifting IV	
SOF110 - Softball I	SOF210 - Softball II	SOF310 - Softball III	SOF410 - Softball IV	
SOC100- Soccer I (Boys)	SOC200 - Soccer II (Boys)	SOC300 - Soccer III (Boys)	SOC400- Soccer IV (Boys)	
SOC110 - Soccer I (Girls)	SOC210 - Soccer II (Girls)	SOC310 - Soccer III (Girls)	SOC410- Soccer IV (Girls)	
SWM100- Swimming I	SWM200 - Swimming II	SWM300 - Swimming III	SWM400 - Swimming IV	
TEN100 - Tennis I	TEN200 - Tennis II	TEN300 - Tennis III	TEN400- Tennis IV	
TRK100 - Track I (Boys)	TRK200 - Track II (Boys)	TRK300 - Track III (Boys)	TRK400 - Track IV (Boys)	
TRK110 - Track I (Girls)	TRK210 - Track II (Girls)	TRK310 - Track III (Girls)	TRK410 - Track IV (Girls)	
VOL110 - Volleyball I	VOL210- Volleyball II	VOL310- Volleyball III	VOL410 - Volleyball IV	

## Programs of Study

The TEA Division of College, Career, and Military Preparation has engaged members of the workforce, secondary education, and higher education to assist in the development of Programs of Study for each of the Career Clusters. Each Program of study includes coherent sequences of courses, industry based certifications, and work-based learning to ensure students are college and career ready upon graduation. Students completing a program of study will graduate with one or more endorsement. At MISD, our goal is to ensure that our students equipped for success upon graduation and we believe our Program of Study offerings support that initiative.

Our **standard credit Programs of Study (POS)** are a sequence of courses that provide college and career preparation based on a student's interest. Each POS leads to an endorsement and many provide the opportunity to earn industry certifications.



Our College and Career Academies are **dual credit CTE Programs of Study** that lead to an endorsement and give students the opportunity to earn Level I college certificates and industry-based certifications.

# Programs of Study by Endorsement

## STEM Programs of Study

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.

Cluster	Program of Study	Course Pathways				Potential Certifications
		STANDARD	9th Grade	10th Grade	11th Grade	
STEM	Science (5 courses for 5 credits)	SCI200 - Biology (required)	SCI300 - Chemistry (required)	SCI310 - Physics (required)	2 more upper level courses	
	Mathematics (5 courses for 5 credits)	MAT100- Algebra I (required)	MAT200- Geometry (required)	MAT400- Algebra II (required)	2 more upper level courses	
	<a href="#">Advanced Manufacturing and Machinery Mechanics</a>	STM000- Principles of Applied Engineering (I)	STM010- Engineering Design and Presentation I (I)	STM030- Robotics I (I)	STM040- Robotics II (I) MAT330- Robotics II (I) (Math)	Oracle Certified Association JAVA SE 8 Programmer
	<a href="#">Engineering</a>	STM000- Principles of App Engineering (I)	STM205- Engineering Design/Present. I (I)	STM200/SCI412- Eng. Design & Problem Solv. (I)	STM210- Engineering Design/Present. II (2)	Autodesk Certified Professional
	<a href="#">Engineering-CAD</a>	STM000- Principles of Applied Engineering (I) 9th or 10th	STM000- Principles of Applied Engineering (I) 9th or 10th	STM215 Manufacturing Engineering Tech. I D STM200/SCI412- Eng. Design & Problem Solv. )	STM210- Engineering Design/Present. II (2)	Computer Aided Drafting Technician- Entry Level
<u>STEM Endorsement</u>		Coherent sequence of courses for four or more credits that consists of at least two courses in the same career cluster and at least one advanced CTE course, five credits in Math including Algebra II and two additional credits with Algebra II as the prerequisite or five credits in Science including Chemistry and Physics. *Advanced Manufacturing & Machinery Mechanics can also lead to an endorsement in Business & Industry.				

## Agriculture, Food, and Natural Resources Programs of Study

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., and oil and gas production

Cluster	Program of Study	Course Pathways				Potential Certifications
		STANDARD	9th Grade	10th Grade	11th Grade	
Agriculture, Food, and Natural Resources	<a href="#">Animal Science - Adv. Animal Science</a>	AGR010- Principles of Agriculture, Food, & Nat. Resource (I)	AGR020- Livestock Product. (I) (10th or 11th grade)	AGR030- Vet Med Applications (I) (11th or 12th grade)	AGR040 - Adv. Animal Science (I) (11th or 12th grade)	Feedyard Technician in Cattle Care and Handling
	Animal Science - Vet Med	AGR010- Principles of Agriculture, Food, & Nat. Resources (I)	AGR020- Livestock Product. (I) (10th or 11th grade)	AGR030- Vet Med Applications (I) (11th or 12th grade)	AGR040 - Adv. Animal Science (I) (11th or 12th grade)	Certified Vet Assistant
<u>Business &amp; Industry Endorsement</u>		The completion of any of the Agriculture, Food, and Natural Resources (AFNR) Programs of Study (POS) will result in a Business and Industry graduation endorsement. A "completer" is defined as a student who has completed 3 or more courses for 4 or more credits including an advanced course (level 3 or level 4) within an approved Program of Study. *STEM endorsement if the math and science requirements are met				

# Programs of Study by Endorsement cont'd

## Arts, Audio/Video Technology, Communications Programs of Study

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.

Cluster	Program of Study	Course Pathways				Potential Certifications
	STANDARD	9th Grade	10th Grade	11th Grade	12th Grade	
Arts, Audio, Video, & Technology Comm.	<a href="#">Design &amp; Multimedia Arts - Graphic Design</a>	AAV010- Principles of Arts, A/V Tech, & Comm. (1)	AAV020- Graphic Design & Ill. I (1) <b>(10th or 11th grade)</b>	AAV030- Graphic Design & Illustration II Lab (2) <b>(11th or 12th grade)</b>	CAR015- Career Prep I Ext (3) - <b>Optional</b>	Adobe Certified Associate Certifications
	<a href="#">Digital Communications</a>	AAV010- Principles of Arts, A/V Tech, & Comm. (1)	AAV040- Audio/Video Production I (1) <b>(10th or 11th grade)</b>	AAV050- Audio/Video Production II Lab (2) <b>(11th or 12th grade)</b>	CAR015- Career Prep I Ext (3) - <b>Optional</b>	Adobe Certified Associate Certifications
<b><u>Business &amp; Industry Endorsement</u></b>		The completion of any of the AAVTC Programs of Study (POS) will result in a Business and industry graduation endorsement. A "completer" is defined as a student who has completed 3 or more courses for 4 or more credits including an advanced course (level 3 or level 4) within an approved Program of Study.				

## Business, Marketing, and Finance Programs of Study

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.

Cluster	Program of Study	Course Pathways				Potential Certifications	
	STANDARD	9th Grade	10th Grade	11th Grade	12th Grade		
Business, Marketing, and Finance	<a href="#">Accounting &amp; Financial Services</a>	AMF010- Business Info Management I (1)	BMF040- Accounting I (1)	BMF050- Accounting II (1)	BMF060- Financial Math (1) <b>(11th or 12th grade)</b>	<a href="#">Microsoft Office Specialist- Excel</a>	
	<a href="#">Business Management</a>	BMF010- Business Info Management I (1)	BMF020- Business Info Management II - (1)	BMF030- Business Mgt (1)	BMF070 - Stats and Business Decision Making	<a href="#">Microsoft Office Specialist - Word</a> <a href="#">Microsoft Office Specialist- Excel</a>	
	<b>DUAL</b>		9th Grade	10th Grade	11th Grade	12th Grade	
	<a href="#">Business Management</a>	BMF010- Business Info Management I (1)	BMF020- Business Info Management II (1) D	7962 - Prin. Bus., Marketing, Fin (1) - D AND BMF030- Business Mgt (1) - D	BMF125 - Stats and Business Decision Making	<a href="#">Microsoft Office Specialist - Word</a> <a href="#">Microsoft Office Specialist- Excel</a>	
<b><u>Business &amp; Industry Endorsement</u></b>		The completion of any of the BMF Programs of Study (POS) will result in a Business and industry graduation endorsement. A "completer" is defined as a student who has completed 3 or more courses for 4 or more credits including an advanced course (level 3 or level 4) within an approved Program of Study.					

# Programs of Study by Endorsement cont'd

## Energy Programs of Study

The Energy Career Cluster prepares individuals for careers in the designing, planning, maintaining, generating, transmission, and distribution of traditional and alternative energy.

Cluster	Program of Study	Course Pathways				Potential Certifications
Energy	DUAL	9th Grade	10th Grade	11th Grade	12th Grade	
	<a href="#">Oil and Gas Production and Exploration Class of 2026+</a>		ENR000 - Occupational Safety and Enviro Tech I - D (1)	ENR010- Oil & Gas I - D (1) ENR020 - Oil & Gas II - D (1)	ENR030- Oil & Gas III - D (1) ENR040 - Oil & Gas IV - D (1)	Level 1 MC Energy Tech
	<a href="#">Oil and Gas Production and Exploration Class of 2025</a>	NEN010 - Oil & Gas I	NEN000 - Occupational Safety and Enviro Tech I - D (1)	NEN020- Oil & Gas II - D (1) NEN030 - Oil & Gas III - D (1)	NEN040 - Oil & Gas IV - D (1) NEN050 - Occupational Safety and Enviro Tech II - D (1)	Level 1 MC Energy Tech
<b><u>Business &amp; Industry Endorsement</u></b>		The completion of any of the Energy Programs of Study (POS) will result in a Business and industry graduation endorsement. A "completer" is defined as a student who has completed 3 or more courses for 4 or more credits including an advanced course (level 3 or level 4) within an approved Program of Study. *STEM endorsement if the math and science requirements are met				

## Hospitality Programs of Study

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.

Cluster	Program of Study	Course Pathways				Potential Certifications
Hospitality and Tourism	STANDARD	9th Grade	10th Grade	11th Grade	12th Grade	
	<a href="#">Lodging and Resort Management</a>	HOS000- Principles of Hospitality & Tourism (1)	HOS040- Travel and Tourism Mgt (1) <b>(10th or 11th grade)</b>	HOS050- Hospitality Services (2) <b>(11th or 12th grade)</b>	CAR015- Extended Career Prep I (3) <b>(Optional)</b>	<a href="#">Certified Hospitality &amp; Tourism Management Professional</a>
	<a href="#">Culinary Arts</a>	N/A	HOS010- Introduction to Culinary Arts (1)	HOS020- Culinary Arts	HOS030- Adv. Culinary Arts (2)	<a href="#">ServSafe Manager; Cert. Fundamentals Cook</a>
<b><u>Business &amp; Industry Endorsement</u></b>		The completion of any of the H&T Programs of Study (POS) will result in a Business and industry graduation endorsement. A "completer" is defined as a student who has completed 3 or more courses for 4 or more credits including an advanced course (level 3 or level 4) within an approved Program of Study.				

## Manufacturing Programs of Study

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.

Cluster	Program of Study	Course Pathways				Potential Certifications
Manufacturing	STANDARD	9th Grade	10th Grade	11th Grade	12th Grade	
	<a href="#">Advanced Manufacturing and Machinery Mechanics</a>	STM000 - Prin. Applied Engineering (1)	STM010 - Engineering Design and Presentation I (1)	STM030 - Robotics I (1)	STM040 - Robotics II (1) MAT330 - Robotics II (1) (Math)	
	DUAL	9th Grade	10th Grade	11th Grade	12th Grade	
	<a href="#">Welding</a>	N/A	MFG010-Intro to Welding	MFG020- Welding I (D) (2)	MFG030- Welding II (D) (2)	Level I MC Welding Tech
<b><u>Business &amp; Industry Endorsement</u></b>		The completion of any of the Manufacturing Programs of Study (POS) will result in a Business and industry graduation endorsement. A "completer" is defined as a student who has completed 3 or more courses for 4 or more credits including an advanced course (level 3 or level 4) within an approved Program of Study.				

# Programs of Study by Endorsement cont'd

## Transportation Programs of Study

The Transportation, Distribution, and Logistics Career Cluster focuses on careers in planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water. It also includes related professional support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

Cluster	Program of Study	Course Pathways				Potential Certifications
		9th Grade	10th Grade	11th Grade	12th Grade	
Transportation	DUAL					
	<a href="#">Automotive - Auto Tech</a>	N/A	TRN010- Occup. Safety /Enviro Tech I - D (1)	TRN020- Auto Tech I (2) - D	TRN025- Auto Tech II (2) - D	<a href="#">OSHA 30 General Industry</a>
	<a href="#">Automotive - Paint &amp; Body</a>	N/A	TRN010- Occup. Safety /Enviro Tech I - D (1)	TRN035 - Auto Paint & Body (2) - D	TRN030- Paint & Refinish (2) - D	<a href="#">OSHA 30 General Industry</a>
	<a href="#">Diesel &amp; Heavy Equipment</a>	N/A	TRN010- Occup. Safety /Enviro Tech I - D (1)	TRN040- Diesel Equipment Technology I (2) - D	TRN050- Diesel Equipment Technology II (2) - D	<a href="#">OSHA 30 General Industry</a>
<b><u>Business &amp; Industry Endorsement</u></b>		The completion of any of the Transportation Programs of Study (POS) will result in a Business and industry graduation endorsement. A "completer" is defined as a student who has completed 3 or more courses for 4 or more credits including an advanced course (level 3 or level 4) within an approved Program of Study.				

## Education & Training Programs of Study

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.

Cluster	Program of Study	Course Pathways				Potential Certifications
		9th Grade	10th Grade	11th Grade	12th Grade	
Education and Training	STANDARD					
	<a href="#">Teaching &amp; Training</a>	EDU000- Prin. of Education & Training (1)	EDU010- Child Development (1) <b>(10th or 11th grade)</b>	EDU020- Instruct. Practices (2) <b>(11th or 12th grade)</b>	EDU030- Practicum in Education & Training (2) <b>(OPTIONAL - 12th)</b>	<a href="#">Educational Aide I</a>
	DUAL					
	<a href="#">Teaching &amp; Training</a>	EDU000- Prin. of Education & Training (1)	EDU010- Child Development (1) D	EDU020- Instructional Practices (2)	EDU030- Practicum in Education & Training D (2)	<a href="#">Educational Aide I</a>
<b><u>Public Service Endorsement</u></b>		The completion of any of the Education & Training Programs of Study (POS) will result in a Public Service graduation endorsement. A "completer" is defined as a student who has completed 3 or more courses for 4 or more credits including an advanced course (level 3 or level 4) within an approved Program of Study.				

# Programs of Study by Endorsement cont'd

## Health Science Programs of Study

The Health Science Career Cluster focuses 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, communicate effectively, and work well with others.

Cluster	Program of Study	Course Pathways				Potential Certifications
		9th Grade	10th Grade	11th Grade	12th Grade	
Health Science	DUAL					
	<a href="#">Healthcare Therapeutic - Patient Care Technician</a>	7153 - Prin of Health Sci. * 7154 - Prin of Health Sci. - D	7867 - Medical Term. - D (1)	7866 - Health Sci. Theory - D (2) - Nurse Aide Cert	7177 - Practicum in Health Science PCT D (2)	<a href="#">Nurse Aide</a> <a href="#">Patient Care Tech</a> <a href="#">EKG/ECG Tech</a> <a href="#">Phlebotomy Tech</a>
	<a href="#">Healthcare Therapeutic - Pharmacy Technician</a>	7153 - Prin of Health Sci. * 7154 - Prin of Health Sci. - D	7867 - Medical Term. - D (1)	7178 - Pathophysiology 7171 - Pharmacology	7179 - Practicum in Health Science PHT D (2)	<a href="#">Pharmacy Technician</a>
<u>Public Service Endorsement</u>		The completion of any of the Health Science Programs of Study (POS) will result in a Public Service graduation endorsement. A "completer" is defined as a student who has completed 3 or more courses for 4 or more credits including an advanced course (level 3 or level 4) within an approved Program of Study.				

## Human Services Programs of Study

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.

Cluster	Program of Study	Course Pathways				Potential Certifications
		9th Grade	10th Grade	11th Grade	12th Grade	
	STANDARD					
	<a href="#">Cosmetology and Personal Services</a>	N/A	7880 - Intro to Cosmetology (1)	7881 - Cosmetology I (2)	7884 - Cosmetology II (3)	<a href="#">Cosmetology Operator License</a>
<u>Public Service Endorsement</u>		The completion of any of the Human Services Programs of Study (POS) will result in a Public Service graduation endorsement. A "completer" is defined as a student who has completed 3 or more courses for 4 or more credits including an advanced course (level 3 or level 4) within an approved Program of Study.				



## Law & Public Service Programs of Study

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 fire and emergency services.

Cluster	Program of Study	Course Pathways				Potential Certifications
		DUAL	9th Grade	10th Grade	11th Grade	
Law and Public Service	<a href="#">Emergency Services</a>	N/A	7200- Prin. of Law PSC(1) <u>AND</u> 7043 - Firefighter I (2) - D	7044 - Firefighter II (3) - D	7042 - EMT Basic (2) - D	<a href="#">Basic Structure Fire Protection Certification</a>
	<a href="#">Law Enforcement</a>	N/A	N/A	7899 - Prin. of Law PSC(1) <u>AND</u> 7190 - Law Enforcement I (1) - D	7991 - Law Enforcement II (1) - D <u>AND</u> 7195 - Correct. Services (1) - D	<a href="#">NonCommissioned Security Officer L II</a>
<u>Public Service Endorsement</u>		The completion of any of the Law & Public Service Programs of Study (POS) will result in a Public Service graduation endorsement. A "completer" is defined as a student who has completed 3 or more courses for 4 or more credits including an advanced course (level 3 or level 4) within an approved Program of Study.				

## Junior ROTC Programs of Study

JROTC provides students the opportunity to become informed and responsible citizens, develop leadership and self-discipline skills and become involved in their school and community. There is no military obligation associated with or incurred by participating in the program.

Cluster	Program of Study	Course Pathways				Potential Certifications
		STANDARD	9th Grade	10th Grade	11th Grade	
JROTC	<a href="#">JROTC</a>		8493 - ROTC I	8494 - ROTC II	8495 - ROTC III	8496 - ROTC IV
<u>Public Service Endorsement</u>		The completion of the ROTC Program of Study (POS) will result in a Public Service graduation endorsement.				

# Programs of Study by Endorsement

## Fine Arts

Cluster	Program of Study	Course Pathways			
Fine Arts	STANDARD				
	Band	Band I (1) Marching B I (.5 PE) Color Guard I *	Band II (1) Marching B II (.5 PE) OR Jazz Band I (1) Color Guard II *	Band III (1) OR Jazz Band II (1) Color Guard III *	Band IV (1) Jazz Band III (1) Color Guard IV *
	Choir	Choir I OR Vocal Ensemble I *	Choir II OR Vocal Ensemble II *	Choir III OR Vocal Ensemble III *	Choir IV OR Vocal Ensemble IV *
	Dance	Dance I	Dance II	Dance III	Dance IV
	Orchestra	Orchestra I OR Instr. Ensemble I *	Orchestra II OR Instr. Ensemble II *	Orchestra III OR Instr. Ensemble III *	Orchestra IV OR Instr. Ensemble IV *
	Theatre Arts	Theatre Arts I OR Theatre Production I *	Theatre Arts II OR Theatre Prod. II * OR Technical Theatre I	Theatre Arts III OR Theatre Prod. III * OR Technical Theatre II	Theatre Arts IV OR Theatre Prod.n IV* OR Technical Theatre III
	Visual Arts	Art I	Art II - Drawing	Art III	Art IV OR AP Studio Art AP Art/2 DIM Design
<u>Arts &amp; Humanities Endorsement</u>		4 courses for 4 credits in the same Fine Arts POS OR 2 courses for 2 credits each in 2 different Fine Arts POS for a total of 4 Courses & 4 Credits.			

## LOTE

Cluster	Program of Study	Course Pathways			
LOTE	STANDARD				
	French	French I	French II	French III French III EAS	French IV AP French IV
	German	German I	German II	German III German III EAS	German IV AP German IV
	Latin	Latin I	Latin II	Latin III Latin III EAS	Latin IV AP Latin IV
	Spanish	Spanish I	Spanish II	Spanish III Spanish III EAS Spanish III EAS D	Spanish IV AP Spanish IV AP Spanish IV D Spanish V AP Spanish V AP Spanish VI
<u>Arts &amp; Humanities Endorsement</u>		4 courses for 4 credits in the same LOTE POS OR 2 courses for 2 credits each in 2 different LOTE POS for a total of 4 Courses & 4 Credits.			

## Social Studies

Cluster	Program of Study	Course Pathways			
Social Studies	STANDARD				
	Social Studies	World Geography World Geog. EAS World Geog. G-EAS AP Human Geog AP Human Geog G	5280 - World History 5285 - AP World History 5259 - AP World History G 5284 - World History EAS	US History AP US History AP US History G AP US History D AP US History G D Special Topics (SIP, .5) Special Topics (SIP, .5) Psychology (.5) Sociology (.5) AP Psychology (.5)	AP Government AP Government D AP Government G AP Government G D Economics (0.5) AP Mic/Mac Econ AP Mic/Mac Econ G AP Mic/Mac Econ D AP Mic/Mac Econ DG
<u>Arts &amp; Humanities Endorsement</u>		5 courses for 5 credits in no particular sequence.			

# Programs of Study by Endorsement

## College, Career, Military Readiness (CCMR)

Cluster	Program of Study	Course Pathways			
CCMR	CCMR Multidisciplinary Endorsement	Advanced Course #1: Level III or Level IV	Advanced Course #2: Level III or Level IV	Advanced Course #3: Level III or Level IV	Advanced Course #4: Level III or Level IV
<u>Multidisciplinary Endorsement</u>		Four advanced (Level III or IV) courses that prepare a student to enter the workforce successfully or postsecondary education without remediation.			

## Four by Four (4x4)

Cluster	Program of Study	Course Pathways			
4x4	4x4 Multidisciplinary Endorsement	4 English Credits	4 Math Credits	4 Science Credits	4 Social Studies Credits
<u>Multidisciplinary Endorsement</u>		Four credits in each foundation subject area, including chemistry and/or physics and English IV or a comparable Advanced Placement (AP) or International Baccalaureate (IB) English course			

## AP, Dual Credit, and/or IB

Cluster	Program of Study	Course Pathways			
AP & Dual	AP/Dual Multidisciplinary Endorsement	AP/Dual Course #1:	AP/Dual Course #2:	AP/Dual Course #3:	AP/Dual Course #4:
<u>Multidisciplinary Endorsement</u>		Four credits in AP, IB, or dual credit courses selected from English, mathematics, science, social studies, economics, LOTE or fine arts,			

# Additional Electives

## Additional Electives

Anatomy & Physiology (11th or 12th grade)	Forensic Science (11th or 12th grade)	Ext. Career Prep I (3) (11th or 12th grade)	Ext. Career Prep II (3) (12th grade)	Floral Design (1) (10th - 12th grade)	Adv. Floral Design (1) (11th or 12th grade)
Creative Writing (.5) (10th - 12th grade)	Research and Technical Writing (.5) (10th - 12th grade)	Debate I (1) (10th - 12th grade)	Debate II (1) (11th or 12th grade)	Debate III (1) (12th grade)	Personal Financial Lit. (.5) (12th grade)
Yearbook I (1)* (10th - 12th grade)	Yearbook II (1)* (11th or 12th grade)	Yearbook III (1)* (12th grade)	Sociology (.5) (10th - 12th grade)	Psychology (.5) (10th - 12th grade)	AP Psychology (.5) (11th - 12th grade)
Students in Philanthropy (.5) (Semester 1 - 12th grade) LHS*	Students in Philanthropy (.5) (Semester 2 - 12th grade) LHS*	College Prep Math (1) (12th grade)	College Prep English (1) (12th grade)	Student Council (1) 1st yr* (10th - 12th grade)	Student Council (0) 2nd yr* (11th - 12th grade) Local Credit
Vocab Dev LTN (.5) (10th - 12th grade)	Academic Team (1)* (10th - 12th grade)	Applied Music (1) (11th - 12th grade)	AP Music Theory (1) (11th - 12th grade)	AP Stats (1) (12th grade)	

# Core and Required Course Descriptions

## English Language Arts

English I					
<b>MISD #:</b>	ELA100	<b>Service Id # :</b>	03220100	<b>Credits:</b> 1	<b>Grade Level:</b> 9-12
<p>This course focuses on an integration of writing (grammatical concepts, usage, capitalization, punctuation, and spelling) with literature. It also focuses on reading improvement through drama, short story, poetry, novel, and epic. Students will learn literary forms and terms associated with selections read. Preparation for End of Course testing will be included.</p>					
<b>Prerequisites:</b> none					

English I EAS					
<b>MISD #:</b>	ELA101	<b>Service Id # :</b>	03220100	<b>Credits:</b> 1	<b>Grade Level:</b> 9-12
<p>Using the study of various literary genres as a base, emphasis is placed on critical thinking skills by discovering meaning in literature through language, imaging, characters, action, argument, strategies, and techniques used. Writing focuses on interpretation, analysis, and creativity. EAS classes are part of a sequential program designed to lead to Advanced Placement credit. Preparation for End of Course testing will be included.</p>					
<b>Prerequisites:</b> District required summer reading					

English II					
<b>MISD #:</b>	ELA200	<b>Service Id # :</b>	03220200	<b>Credits:</b> 1	<b>Grade Level:</b> 10-12
<p>This course includes an integrated program of writing and reading skills. The literature units will include poetry, novels, Shakespearean drama, and short stories. Students will write multi-paragraph compositions. Preparation for End of Course testing will be included.</p>					
<b>Prerequisites:</b> English I					

English II EAS					
<b>MISD #:</b>	ELA201	<b>Service Id # :</b>	03220200	<b>Credits:</b> 1	<b>Grade Level:</b> 10-12
<p>The English II EAS course is a continuation of English I EAS. Using world literature as a base, subject matter will be covered in greater depth, and analytical reasoning skills will be further developed. EAS classes are a sequential program designed to lead to Advanced Placement college credit. Preparation for End of Course testing will be included.</p>					
<b>Prerequisites:</b> English I and district required summer reading					

English III					
<b>MISD #:</b>	ELA300	<b>Service Id # :</b>	03220300	<b>Credits:</b> 1	<b>Grade Level:</b> 11-12
<p>This course will emphasize a study of American literature, literary criticism, and techniques for writing the research paper along with other forms of communication. A focus on literary forms and terms will continue.</p>					
<b>Prerequisites:</b> English I and English II					

AP English Lang & Comp				
<b>MISD #:</b>	ELA302	<b>Service Id # :</b>	A3220100	<b>Credits:</b> 1 <b>Grade Level:</b> 11-12
Advanced Placement English III, which emphasizes preparation for the AP English Language and Composition test, uses works in American literature to teach techniques of analysis, synthesis, and evaluation applicable to any written, spoken, or graphic English composition. In addition, a research project is required. Students are expected to take the AP Exam.				
<b>Prerequisites:</b> English I, English II, and district required summer reading				

English IV				
<b>MISD #:</b>	ELA400	<b>Service Id # :</b>	03220400	<b>Credits:</b> 1 <b>Grade Level:</b> 12
This course is a survey of British literature and the development of the English language, which gives the college bound student a background in the history and culture of the English-speaking peoples. Reading, grammar, usage, mechanics, and composition skills are integrated into the literature units. Course research projects emphasize literary criticism.				
<b>Prerequisites:</b> English I, English II and English III				

English IV AP				
<b>MISD #:</b>	ELA402	<b>Service Id # :</b>	A3220200	<b>Credits:</b> 1 <b>Grade Level:</b> 12
This course focuses on an integration of writing (grammatical concepts, usage, capitalization, punctuation, and spelling) with literature. It also focuses on reading improvement through drama, short story, poetry, novel, and epic. Students will learn literary forms and terms associated with selections read. Preparation for End of Course testing will be included.				
<b>Prerequisites:</b> English I, English II, English III, and district required reading				

<b>College Prep English</b>				
<b>MISD #:</b>	ELA500	<b>Service Id # :</b>	CP110100	<b>Credits:</b> .5-1 <b>Grade Level:</b> 10-12
<p>In this college-preparatory course students will improve integrated critical reading and writing skills through engagement with a variety of texts across content areas and genres. As a result, students will be able to develop and express ideas clearly and effectively to communicate with various audiences for various purposes and occasions. This course explores a variety of writing styles relevant to the topic and purpose, incorporating the ideas and words of other writers in student writing using established strategies. Students will learn effective editing strategies, generate ideas from texts, recognize and apply the conventions of standard English, and compose college-level writing assignments.</p>				
<b>Prerequisites:</b> none				

<b>ESOL I and II</b>				
<b>MISD #:</b>	ELL100/200	<b>Service Id # :</b>	03200600/700	<b>Credits:</b> 1 <b>Grade Level:</b> 10-12
<p>Students with Other Languages (SOL) is intensive English language instruction by teachers trained in recognizing and working with diverse language learners. ESL instruction considers the students' learning experiences and cultural backgrounds. The course develops mastery of the English language in the cognitive, affective and linguistic domains.</p>				
<b>Prerequisites:</b> Placement will be determined by state and local criteria.				

<b>Creative Writing</b>				
<b>MISD #:</b>	ELA501	<b>Service Id # :</b>	03221200	<b>Credits:</b> 1 <b>Grade Level:</b> 10-12
<p>The purpose of this course is to allow students to explore their creative and imaginative abilities through the writing in various genres in developing versatility as a writer. Creative writing, a rigorous composition course, asks high school students to demonstrate their skill in such forms of writing as fictional writing, short stories, poetry, literary non-fiction, and drama. All students will effectively demonstrate an understanding of the recursive nature of the writing process in expository, creative, descriptive, and persuasive modes, applying the conventions of usage and mechanics of written English. Students will critically read and analyze the works of specific writers and their styles in relation to the major and significant aspects of creative writing. The students' evaluation of their own writing as well as the writing of others ensures that students completing this course are able to analyze and discuss published and unpublished pieces of writing, develop peer and self-assessments for effective writing, and set their own goals as writers.</p>				
<b>Prerequisites:</b> none				

## English Language Arts Cont'd

Debate I				
<b>MISD #:</b>	ELA506	<b>Service Id # :</b>	03240600	<b>Credits:</b> 1 <b>Grade Level:</b> 10-12
Prepares and presents a variety of argumentative and presentation modes; weekend competitive participation required. Hours of team practice outside of class.				
<b>Prerequisites:</b> Interview				

Debate II				
<b>MISD #:</b>	ELA507	<b>Service Id # :</b>	03240700	<b>Credits:</b> 1 <b>Grade Level:</b> 11-12
Prepares and presents a variety of argumentative and presentation modes; weekend competitive participation required. Hours of team practice outside of class. Students begin taking leadership roles in the team.				
<b>Prerequisites:</b> Completion of Debate I with an average of 80 or above.				

Debate III				
<b>MISD #:</b>	ELA508	<b>Service Id # :</b>	03240800	<b>Credits:</b> 1 <b>Grade Level:</b> 12
Prepares and presents a variety of argumentative and presentation modes; weekend competitive participation required. Hours of team practice outside of class. Students take leadership roles on the team and assist with tutorial responsibilities for Debate I students.				
<b>Prerequisites:</b> Completion of Debate II with an average of 80 or above.				

Yearbook I and II				
<b>MISD #:</b>	ELA503/504	<b>Service Id # :</b>	03230110/20	<b>Credits:</b> 1 <b>Grade Level:</b> 10-12
Students are required to learn fundamental concepts of design and layout, digital photography, basic copywriting techniques, interviewing procedures, and deadline management. They also use current computer technology for page design, word processing, database management, and simple account. Students are required to spend a great deal of time outside of class.				
<b>Prerequisites:</b> Application and approval				

## Mathematics

Algebra I				
<b>MISD #:</b>	MAT100	<b>Service Id # :</b>	03100500	<b>Credits:</b> 1 <b>Grade Level:</b> 7-12
Algebra I is the prerequisite class to All subsequent math classes. It provides the foundation concepts for Algebra 2, Geometry, and all high school mathematics. It establishes concepts in the areas of number operations, quantitative reasoning, algebraic thinking, and symbolic reasoning. An emphasis is placed on function concepts, the relationship between equations, and the use of these to model real world applications. Preparation for End of Course testing will be included.				
<b>Prerequisites:</b> 8th Grade Math				

Algebra I EAS					
<b>MISD #:</b>	MAT101	<b>Service Id # :</b>	03100500	<b>Credits:</b> 1	<b>Grade Level:</b> 9
<p>This college-preparatory course covers the same material presented in regular Algebra I. Concepts will be explored in greater depth and problem-solving will be more varied and demanding. Technology including the graphing calculator and the computer will be used to a greater extent than in Algebra I. Additional topics to be covered are geometric representations of algebraic situations, quadratic systems with parabolas, and absolute value equations and inequalities. Preparation for End of Course testing will be included.</p>					
<b>Prerequisites:</b> 8th Grade Math					

Geometry					
<b>MISD #:</b>	MAT200	<b>Service Id # :</b>	03100700	<b>Credits:</b> 1	<b>Grade Level:</b> 10
<p>Geometry is a college-preparatory course as well as preparation for school-to-work programs. Geometry consists of the study of geometric figures of zero, one, two, and three dimensions and the relationships among them. Connections are made between geometric concepts and solving real world problems by using a variety of representations (concrete, pictorial, algebraic, and coordinate), tools, technology, applications and modeling, logical reasoning, justification, and proof.</p>					
<b>Prerequisites:</b> Algebra I					

Geometry EAS					
<b>MISD #:</b>	MAT201	<b>Service Id # :</b>	03100700	<b>Credits:</b> 1	<b>Grade Level:</b> 9-10
<p>This college-preparatory course will contain the Texas Essential Knowledge and Skills in the regular geometry course. Concepts will be explored in greater depth and with rigor designed to properly prepare students to be successful in Pre-Advanced Placement Algebra 2. Preparation for End of Course testing will be included.</p>					
<b>Prerequisites:</b> Algebra I					

Mathematical Models With Applications					
<b>MISD #:</b>	MAT300	<b>Service Id # :</b>	03102400	<b>Credits:</b> .5	<b>Grade Level:</b> 11-12
<p>This course is offered as a bridge to Algebra II. Algebra I and Geometry concepts will be revisited. In addition, students will be introduced to applied math in real world situations, including personal finance (budgeting, insurance, savings, and credit.) This course may not fulfill the math entrance requirements of some colleges. Semesters are independent of each other.</p>					
<b>Prerequisites:</b> Algebra I; Geometry Recommended					

Algebra II					
<b>MISD #:</b>	MAT400	<b>Service Id # :</b>	03100600	<b>Credits:</b> 1	<b>Grade Level:</b> 10-12
<p>Progression through the algebra concepts taught in this course allows students to develop logical reasoning and problem-solving skills vital in today's technology-oriented world. It prepares students for either school-to-work programs or progression to higher mathematics needed for post-secondary studies. It emphasizes the need to master functional relationships and employ them to problem-solve real situations.</p>					
<b>Prerequisites:</b> Algebra I, Geometry					



## Algebra II EAS

**MISD #:** MAT401      **Service Id # :** 03100600      **Credits:** 1      **Grade Level:** 10-12

This college-preparatory course covers the same material presented in regular Algebra II in addition to other topics that will better prepare students for Pre-Advanced Placement Pre-Calculus. Concepts will be explored in greater depth and problem-solving will be more varied and demanding.

**Prerequisites:** Algebra I, Geometry

## Pre-Calculus

**MISD #:** MAT440      **Service Id # :** 03101100      **Credits:** 1      **Grade Level:** 11-12

Pre-Calculus combines the use of the real number coordinate system with an extensive study of functions and their graphs, including trigonometric functions and their periodicity, inverse, composite, polynomial, rational, exponential, and logarithmic functions. Functions, sequences and series, conic sections, parametric representations, and vectors will be used to model real life situations.

**Prerequisites:** Algebra I and II and Geometry

## Pre-Calculus EAS

**MISD #:** MAT441      **Service Id # :** 03101100      **Credits:** 1      **Grade Level:** 11-12

This college-preparatory course is intended for students who have displayed a high degree of understanding in their previous math courses. It is designed to prepare students for AP Calculus. It includes the same concepts covered in Pre-Calculus but explored in greater depth, and problem solving will be more varied and demanding.

**Prerequisites:** Algebra I and II and Geometry

## Pre-Calculus EAS GT/Dual

**MISD #:** MAT444      **Service Id # :** 03101100      **Credits:** 1      **Grade Level:** 11-12

This course covers trigonometry and elementary analysis concepts. Course is challenging, fast-paced, and intended to prepare the student for an AP Calculus course.

**Prerequisites:** Algebra I and II and Geometry

## AP Calculus AB

**MISD #:** MAT500      **Service Id # :** A3100101      **Credits:** 1      **Grade Level:** 12

This course will follow the course description for AP Calculus AB as defined by the college board. Students will be taught the Texas Essential Knowledge and Skills of calculus such as applying limit theorems, continuity, differentiation and integration of algebraic and transcendental (trigonometric, exponential, and logarithmic) functions. Also, applications of first and second derivatives including curve sketching, velocity and acceleration, maxima and minima, and related rates are covered. Indefinite and definite integration including applications are presented. Other subjects covered are: differentiating composite functions using the chain rule, implicit differentiation problems, and other integration methods. Graphing calculator skills are required for solving some problems.

**Prerequisites:** Algebra I, Geometry, Algebra II and Pre-Calculus

AP Calculus BC				
<b>MISD #:</b>	MAT505	<b>Service Id # :</b>	A3100102	<b>Credits:</b> 1 <b>Grade Level:</b> 12
<p>Calculus BC Advanced Placement will develop the student's understanding of the concepts of calculus including functions, graphs, limits, derivatives, integrals and their applications, and polynomial approximations and series. The course will follow the Calculus BC Advanced Placement requirements outlined in the College Board's "Course and Exam Description" for AP Calculus AB and AP Calculus BC. College credit can be achieved by demonstrating competence on the Advanced Placement exam.</p>				
<b>Prerequisites:</b> Algebra I, Geometry, Algebra II and Pre-Calculus				

AP Calculus BC/Dual				
<b>MISD #:</b>	MAT506	<b>Service Id # :</b>	A3100102	<b>Credits:</b> 1 <b>Grade Level:</b> 12
<p>Designed for students wishing to receive credit for up to 8 hours of calculus while still in high school. Context is focused on the key foundational ideas relating differential and integral calculus. 1st semester is Cal I; 2nd semester is Cal II.</p>				
<b>Prerequisites:</b> Algebra I, Geometry, Algebra II and Pre-Calculus				

AP Computer Science A				
<b>MISD #:</b>	MAT515	<b>Service Id # :</b>	A3580110	<b>Credits:</b> 1 <b>Grade Level:</b> 11-12
<p>4th year Math. This foundation course was designed by TEA to provide students with skills in using a programming language, currently Java, to help students create solutions for real world problems that can be represented or manipulated inside a computer. Students are taught higher level thinking skills to produce computer programs and are shown how commercial software utilizes these same techniques to solve problems. Students have the option of receiving college credit for the course through successful completion of the Advanced Placement Computer Science A Exam. This course is recommended to all students that plan post-secondary education in fields such as math, science, engineering and computer related fields.</p>				
<b>Prerequisites:</b> Algebra II				

Advanced Quantitative Reasoning				
<b>MISD #:</b>	MAT420	<b>Service Id # :</b>	03102510	<b>Credits:</b> 1 <b>Grade Level:</b> 12
<p>4th Year Math; AQR is an engaging and rigorous course that prepares students for a range of future options in non-mathematics intensive college majors or for entering workforce training programs. The course emphasizes statistics and financial applications, and it prepares students to use algebra, geometry, trigonometry and discrete mathematics to model a range of situations and solve problems.</p>				
<b>Prerequisites:</b> Algebra II				

Algebraic Reasoning				
<b>MISD #:</b>	MAT410	<b>Service Id # :</b>	03102540	<b>Credits:</b> 1 <b>Grade Level:</b> 11-12
<p>This course will build upon the knowledge and skills for math from Kindergarten through Algebra I in order to develop a deeper understanding of algebraic reasoning. Topics include functions, relationships, patterns, numeric reasoning and data to increase workforce and college readiness.</p>				
<b>Prerequisites:</b> Algebra I, Algebra II Recommended				

## Financial Mathematics

**MISD #:** MAT310      **Service Id # :** 13018000      **Credits:** 1      **Grade Level:** 11-12

Financial Mathematics 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. Note: This course satisfies a math credit requirement for students on the Foundation High School Program.

**Prerequisites:** Algebra I

## AP Statistics

**MISD #:** MAT510      **Service Id # :** A3100200      **Credits:** 1      **Grade Level:** 11-12

This course introduces students to the major concepts and tools for collecting analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes, including exploring data by describing patterns and departures from patterns; sampling and experimentation through planning and conducting a study; anticipating patterns that explore random phenomena using probability and simulation; and statistical inference in estimating population parameters and testing hypotheses.

**Prerequisites:** Algebra I, Algebra II

## Statistics and Business Decision Making

**MISD #:** MAT450      **Service Id # :** 13016900      **Credits:** 1      **Grade Level:** 11-12

Statistics and Business Decision Making is an introduction to statistics and the application of statistics to business decision making. Students will use statistics to make business decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid. Note: This course satisfies a math credit requirement for students on the Foundation High School Program.

**Prerequisites:** Algebra II

## Accounting II

**MISD #:** MAT320      **Service Id # :** 13016700      **Credits:** 1      **Grade Level:** 11-12

In Accounting II, students will 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 will reflect on this knowledge as they engage in various managerial, financial, and operational accounting activities. Students will formulate, interpret, and communicate financial information for use in management decision making. Students will use equations, graphical representations, accounting tools, spreadsheet software, and accounting systems in real-world situations to maintain, monitor, control, and plan the use of financial resources. Note: This course satisfies a math credit requirement for students on the Foundation High School Program.

**Prerequisites:** Accounting I

## College Prep Mathematics

**MISD #:** MAT430      **Service Id # :** CP111200      **Credits:** 1      **Grade Level:** 11-12

Designed to prepare students for entry level college mathematics, most typically, College Algebra. The course will focus on the mathematics topics of: elementary algebra; intermediate algebra and functions; geometry and measurement; data analysis, statistics, and probability. As part of the Texas Success Initiative (TSI), Texas law requires students entering college to meet readiness standards in reading and mathematics. Various assessments determine if a student needs reinforcement of specific skills.

**Prerequisites:** Algebra I, Algebra II Recommended

Robotics II					
<b>MISD #:</b>	MAT330	<b>Service Id # :</b>	13037050	<b>Credits:</b> 1	<b>Grade Level:</b> 11-12
<p>In Robotics II, students will explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs. Note: This course satisfies a math credit requirement for students on the Foundation High School Program.</p>					
<b>Prerequisites:</b> Robotics I					

Integrated Physics and Chemistry (IPC)					
<b>MISD #:</b>	SCI100	<b>Service Id # :</b>	03060201	<b>Credits:</b> 1	<b>Grade Level:</b> 9
<p>In Integrated Physics and Chemistry, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical-thinking and scientific problem-solving. This course integrates the disciplines of physics and chemistry in the following topics: motion, waves, energy transformations, properties of matter, changes in matter, and solution chemistry.</p>					
<b>Prerequisites:</b> none					

Biology					
<b>MISD #:</b>	SCI200	<b>Service Id # :</b>	03010200	<b>Credits:</b> 1	<b>Grade Level:</b> 10
<p>In Biology, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical-thinking and scientific problem-solving. Students in biology study a variety of topics that include the following: structures and functions of cells and viruses; growth and development of organisms; cells, tissues, and organs; nucleic acids and genetics; taxonomy; metabolism and energy transfers in living organisms; living systems; homeostasis; ecosystems; and plants and the environment. Preparation for End of Course testing will be included.</p>					
<b>Prerequisites:</b> none					

Biology EAS					
<b>MISD #:</b>	SCI201	<b>Service Id # :</b>	03010200	<b>Credits:</b> 1	<b>Grade Level:</b> 9
<p>In EAS Biology, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical-thinking and scientific problem-solving. Students in biology study a variety of topics that include the following: structures and functions of cells and viruses; growth and development of organisms; cells, tissues, and organs; nucleic acids and genetics; taxonomy; metabolism and energy transfers in living organisms; living systems; homeostasis; ecosystems; and plants and the environment. Students will be expected to perform on an advanced level in preparation for further upper-level science courses. Preparation for End of Course testing will be included.</p>					
<b>Prerequisites:</b> none					

Chemistry				
<b>MISD #:</b>	SCI300	<b>Service Id # :</b>	03040000	<b>Credits:</b> 1 <b>Grade Level:</b> 10-12
<p>In Chemistry, 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 the following: characteristics of matter; energy transformations during physical and chemical changes; atomic structure; periodic table of elements; behavior of gases; bonding; nuclear fusion and nuclear fission; oxidation-reduction reactions; chemical equations; solutes; properties of solutions; acids and bases; molar relationships; and chemical reactions. Students will investigate how chemistry is an integral part of our daily lives.</p>				
<b>Prerequisites:</b> Algebra I and 1 Science				

Chemistry EAS				
<b>MISD #:</b>	SCI301	<b>Service Id # :</b>	03040000	<b>Credits:</b> 1 <b>Grade Level:</b> 10-12
<p>In EAS Chemistry, 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 the following: characteristics of matter; energy transformations during physical and chemical changes; atomic structure; periodic table of elements; behavior of gases; bonding; nuclear fusion and nuclear fission; oxidation-reduction reactions; chemical equations; solutes; properties of solutions; acids and bases; molar relationships; and chemical reactions. Students will investigate how chemistry is an integral part of our daily lives. Students will be expected to perform on an advanced level in preparation for further upper-level science courses.</p>				
<b>Prerequisites:</b> Algebra I and 1 Science				

Physics				
<b>MISD #:</b>	SCI310	<b>Service Id # :</b>	03050000	<b>Credits:</b> 1 <b>Grade Level:</b> 10-12
<p>In Physics, 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 the following: laws of motion, changes within physical systems and conservation of energy and momentum; force; thermodynamics; characteristics and behavior of waves; and quantum physics. This course provides students with a conceptual framework, factual knowledge, analytical, and scientific skills.</p>				
<b>Prerequisites:</b> Algebra I				

AP Physics I: Algebra-Based				
<b>MISD #:</b>	SCI311	<b>Service Id # :</b>	A3050003	<b>Credits:</b> 1 <b>Grade Level:</b> 11-12
<p>AP Physics I: Algebra-Based is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric circuits. The focus is on a series of learning objectives that clarify the knowledge and skills students should demonstrate to qualify for college credit and placement. Please check the college you plan to attend for the acceptance of this course in your major field of study. Content requirements for Advanced Placement (AP) Physics are prescribed by the College Board Publication Advanced Placement Course Description: Physics 1, published by the College Board. Students are expected to take the AP Exam.</p>				
<b>Prerequisites:</b> Geometry and concurrently taking Algebra 2 or equivalent course.				

Advanced Animal Science					
<b>MISD #:</b>	SCI410	<b>Service Id # :</b>	13000700	<b>Credits:</b> 1	<b>Grade Level:</b> 11-12
4th Science. This course examines the interrelatedness of human, scientific and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences.					
<b>Prerequisites:</b> Biology and Chemistry or Integrated Physics and Chemistry (IPC); Algebra I and Geometry; and either Small Animal Management, Equine Science, or Livestock Production.					

Astronomy					
<b>MISD #:</b>	SCI401	<b>Service Id # :</b>	03060100	<b>Credits:</b> 1	<b>Grade Level:</b> 11-12
In Astronomy, student conduct laboratory and field investigations, use scientific methods, 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 who successfully complete Astronomy will acquire knowledge within a conceptual framework, conduct observations of the sky, work collaborative, and develop critical-thinking skills.					
<b>Prerequisites:</b> 1 year of high school Science					

Anatomy and Physiology*					
<b>MISD #:</b>	SCI407	<b>Service Id # :</b>	13020600	<b>Credits:</b> 1	<b>Grade Level:</b> 11-12
This course introduces a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis. Students conduct laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem-solving.					
<b>Prerequisites:</b> Biology					

Earth & Space Science					
<b>MISD #:</b>	SCI402	<b>Service Id # :</b>	03060200	<b>Credits:</b> 1	<b>Grade Level:</b> 11-12
4th Science. This course is a capstone course designed to build on students' prior scientific and academic knowledge and skills to develop understanding of Earth's system in space and time.					
<b>Prerequisites:</b> 3 units of Science, 1 which can be taken concurrently, 3 units of math, 1 of which can be taken concurrently.					

Engineering Design and Problem Solving D					
<b>MISD #:</b>	STM200	<b>Service Id # :</b>	13037300	<b>Credits:</b> 1	<b>Grade Level:</b> 11-12
This course is a dual credit course in the dual credit Engineering PoS. Students learn the creative process of solving problems by identifying needs and then devising solutions. This course reinforces and integrates skills learned in previous mathematics and science courses. Students apply critical-thinking skills to justify a solution from multiple design options					
<b>Prerequisites:</b> Geometry, Algebra II, Chemistry, Physics					

Environmental Systems					
<b>MISD #:</b>	SCI400	<b>Service Id # :</b>	03020000	<b>Credits:</b> 1	<b>Grade Level:</b> 11-12
<p>The Advanced Placement Biology course is designed to be the equivalent of a college introductory biology course. The course will include those topics regularly covered in a college biology course, and differs from standard high school biology with respect to the kind of textbook used, the range and depth of topics covered, the kind of laboratory work done by students, and the time and effort required of students. The course aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. Content requirements for AP Biology are prescribed in the College Board Publication Advanced Placement Course. Description: Biology, published by the College Board. Students are expected to take the AP exam.</p>					
<b>Prerequisites:</b> Biology					

Forensic Science					
<b>MISD #:</b>	SCI411	<b>Service Id # :</b>	13029500	<b>Credits:</b> 1	<b>Grade Level:</b> 11-12
<p>(4th Science) Forensic Science is a course that introduces students to the application of science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Students will learn terminology and procedures related to the search and examination of physical evidence in criminal cases as they are performed in a typical crime laboratory. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, and cartridge cases. Students will also learn the history and the legal aspects as they relate to teach discipline of forensic science.</p>					
<b>Prerequisites:</b> Biology and Chemistry					

AP Biology					
<b>MISD #:</b>	SCI203	<b>Service Id # :</b>	A3010200	<b>Credits:</b> 1	<b>Grade Level:</b> 11-12
<p>The Advanced Placement Biology course is designed to be the equivalent of a college introductory biology course. The course will include those topics regularly covered in a college biology course, and differs from standard high school biology with respect to the kind of textbook used, the range and depth of topics covered, the kind of laboratory work done by students, and the time and effort required of students. The course aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. Content requirements for AP Biology are prescribed in the College Board Publication Advanced Placement Course. Description: Biology, published by the College Board. Students are expected to take the AP exam.</p>					
<b>Prerequisites:</b> Biology I, Chemistry					

AP Environmental Science					
<b>MISD #:</b>	SCI403	<b>Service Id # :</b>	A3020000	<b>Credits:</b> 1	<b>Grade Level:</b> 11-12
<p>In AP Environmental Science students will study scientific principles that help them understand the relationships of the natural world. Students will identify environmental problems both natural and man-made and examine solutions for resolving these problems. Topics that will be covered include the following: flow of energy, nutrient cycles, earth dynamics, atmospheric pollution, biomes, population studies, renewable and nonrenewable resources, water and soil quality, and more. Students are expected to take the AP exam.</p>					
<b>Prerequisites:</b> Algebra I, 1 Year of Life Science, 1 Year of Physical Science					

AP Physics II: Algebra-Based					
<b>MISD #:</b>	SCI313	<b>Service Id # :</b>	A3050004	<b>Credits:</b> 1	<b>Grade Level:</b> 12
<p>AP Physics 2: Algebra-Based 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. The focus is on a series of learning objectives that clarify the knowledge and skills students should demonstrate to qualify for college credit and placement. Please check the college you plan to attend for the acceptance of this course in your major field of study. Content requirements for Advanced Placement (AP) Physics are prescribed by the College Board Publication Advanced Placement Course Description: Physics 2, published by the College Board. Students are expected to take the AP Exam.</p>					
<b>Prerequisites:</b> Taken or concurrently taking Precalculus or equivalent course, AP Physics I					

AP Physics C: Mechanics					
<b>MISD #:</b>	SCI317	<b>Service Id # :</b>	A3050006	<b>Credits:</b> 1	<b>Grade Level:</b> 12
<p>Availability based on demand. This course is equivalent to a one-semester, calculus-based, college-level physics course. It is especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as kinematics, Newton's laws of motion, work, energy and power; systems of particles and linear gravitation. Introductory differential and integral calculus is used throughout the course.</p>					
<b>Prerequisites:</b> Physics, Concurrently taking Calculus					

AP Physics C: Electricity and Magnetism					
<b>MISD #:</b>	SCI315	<b>Service Id # :</b>	A3050005	<b>Credits:</b> 1	<b>Grade Level:</b> 12
<p>Availability based on demand. This course is equivalent to a one-semester, calculus-based, college-level physics course. It is especially appropriate for students planning to specialize or major in physical science or engineering. The course will provide instruction in each of the following five content areas: electrostatics; conductors; capacitors and dielectrics; electric circuits; magnetic fields; and electromagnetism.</p>					
<b>Prerequisites:</b> AP Physics C; Mechanics, Concurrently taking Calculus					

World Geography					
<b>MISD #:</b>	SST100	<b>Service Id # :</b>	03320100	<b>Credits:</b> 1	<b>Grade Level:</b> 9
<p>Students examine people, places, and environments at local, regional, national, and international scales from the spatial perspective of geography. Students describe the influence of geography on events of the past and present. A significant portion of the course centers on the physical environment; cultural patterns; the distribution and movement of world population; relationships among people, places, and environments; and the concept of region.</p>					
<b>Prerequisites:</b> none					



World Geography EAS					
<b>MISD #:</b>	SST103	<b>Service Id # :</b>	03320100	<b>Credits:</b> 1	<b>Grade Level:</b> 9
<p>Students examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Students describe the influence of geography on events of the past and present. The course will focus on the physical processes that shape patterns in the physical environment, and the social processes that shape cultural patterns of regions. Students compare how components of culture shape the characteristics of regions and analyze the impact of technology and human modifications on the physical environment. Students use problem-solving and decision-making skills to ask and answer geographic questions. This course is the introductory course to the high school social studies AP Program.</p>					
<b>Prerequisites:</b> none					

World History					
<b>MISD #:</b>	SST200	<b>Service Id # :</b>	03340400	<b>Credits:</b> 1	<b>Grade Level:</b> 10
<p>The major emphasis in this course is on the study of significant people, events, and issues from the earliest times to the present. Students analyze important events and issues in western civilization as well as in civilizations in other parts of the world. This course cannot be entered at mid-term.</p>					
<b>Prerequisites:</b> none					

AP World History					
<b>MISD #:</b>	SST201	<b>Service Id # :</b>	A3370100	<b>Credits:</b> 1	<b>Grade Level:</b> 10
<p>World History Advanced Placement requires students to develop mastery over the assigned content while developing the ability to practice the skills of a historian. Students will learn to develop their critical thinking skills by analyzing and interpreting both primary documents and writings by respected historians. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. The focus is on the last 1000 years of the global experience. Upon completion of the course, students have the opportunity to take the AP exam to receive up to six hours of college credit. This course may be used to substitute for World History.</p>					
<b>Prerequisites:</b> none					

United States History					
<b>MISD #:</b>	SST300	<b>Service Id # :</b>	03340100	<b>Credits:</b> 1	<b>Grade Level:</b> 11
<p>Students travel back through past decades to the present time. During each decade, contributions of all people to the American scene are emphasized.</p>					
<b>Prerequisites:</b> none					

AP United States History				
<b>MISD #:</b>	SST301	<b>Service Id # :</b>	A3340100	<b>Credits:</b> 1 <b>Grade Level:</b> 11
<p>U.S. History AP is equivalent to college-level survey American History. The topics in this study follow the chronology of U.S. History from colonization to the present. Additional focus is placed on document analysis and timed analytical writing. Upon completion of the course, students can take the Advanced Placement exam to receive up to six hours of college credit.</p>				
<b>Prerequisites:</b> none				

United States Government				
<b>MISD #:</b>	SST400	<b>Service Id # :</b>	03330100	<b>Credits:</b> .5 <b>Grade Level:</b> 12
<p>The focus of this course is on the principles and beliefs upon which the United States was founded and on the structure, functions, and powers of government at the national, state, and local levels. Students learn major political ideas and forms of government in history. A significant focus of the course is on the U.S. Constitution, its underlying principles and ideas, and the form of government it created.</p>				
<b>Prerequisites:</b> none				

AP United States Government				
<b>MISD #:</b>	SST401	<b>Service Id # :</b>	A3330100	<b>Credits:</b> .5 <b>Grade Level:</b> 11-12
<p>Advanced Placement United States Government and Politics is designed for qualified students who wish to complete studies in high school equivalent to a one-semester college introductory course. It will give students an analytical perspective on government and politics. The student will become familiar with the Constitutional underpinnings of United States Government; political beliefs and behaviors; political parties and interest groups; the institutions and policy processes of national government; civil rights and civil liberties. Students will acquire the skills of analyzing data, and writing and presenting written and oral arguments which will prepare them for the demands of beginning and intermediate college courses. Students are expected to take the AP exam.</p>				
<b>Prerequisites:</b> none				

Economics With Emphasis On The Free Enterprise System				
<b>MISD #:</b>	SST410	<b>Service Id # :</b>	03310300	<b>Credits:</b> .5 <b>Grade Level:</b> 11-12
<p>Economics relates to how people throughout history have resolved the basic problem of scarcity. Although emphasis is placed upon the free enterprise system, students also engage in studies of comparative systems. Concurrent credit requires completion of one full year at the honors level.</p>				
<b>Prerequisites:</b> none				

AP Microeconomics				
<b>MISD #:</b>	SST411	<b>Service Id # :</b>	A3310100	<b>Credits:</b> .5 <b>Grade Level:</b> 12
<p><b>Fall Semester Only.</b> This course introduces the students to the basics of microeconomics, including such concepts as scarcity, supply, demand, market types, and operation of the products and resource markets. Concepts learned in this class will be further developed and applied in more of a real-world contest in the macroeconomics course offered in the spring.</p>				
<b>Prerequisites:</b> none				

AP Macroeconomics					
<b>MISD #:</b>	SST415	<b>Service Id # :</b>	A3310200	<b>Credits:</b> .5	<b>Grade Level:</b> 12
<b>Spring Semester Only.</b> This economics course will acquaint students with the fundamentals of macroeconomics, which is essentially a study of the economy as a whole or its basic subdivisions or aggregates, such as the government, household, and business sectors. The course will allow students to create a series of models to be used to interpret economic events, problems and possible solutions.					
<b>Prerequisites:</b> none					

AP Human Geography					
<b>MISD #:</b>	SST101	<b>Service Id # :</b>	A3360100	<b>Credits:</b> 1	<b>Grade Level:</b> 9-12
Human Geography Advanced Placement 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 human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. This college level, cutting edge course is one of College Board's fastest growing courses and includes applications of new technology, increased rigor, and another option for advanced course work. Note: Students who have received credit for World Geography are not eligible to take this course.					
<b>Prerequisites:</b> Physics, Concurrently taking Calculus					

Psychology					
<b>MISD #:</b>	SST500	<b>Service Id # :</b>	03350100	<b>Credits:</b> .5	<b>Grade Level:</b> 10-12
Students investigate why humans behave in certain ways. They discuss examples of normal and abnormal behaviors. They learn why individuals set and complete goals. By interacting with others in class, they learn to understand themselves better.					
<b>Prerequisites:</b>					

AP Psychology					
<b>MISD #:</b>	SST501	<b>Service Id # :</b>	A3350100	<b>Credits:</b> .5	<b>Grade Level:</b> 10-12
Students investigate why humans behave in certain ways. They discuss examples of normal and abnormal behaviors. They learn why individuals set and complete goals. By interacting with others in class, they learn to understand themselves better.					
<b>Prerequisites:</b>					

Sociology					
<b>MISD #:</b>	SST502	<b>Service Id # :</b>	03370100	<b>Credits:</b> .5	<b>Grade Level:</b> 10-12
<b>Fall Semester Only.</b> This course introduces the students to the basics of microeconomics, including such concepts as scarcity, supply, demand, market types, and operation of the products and resource markets. Concepts learned in this class will be further developed and applied in more of a real-world contest in the macroeconomics course offered in the spring.					
<b>Prerequisites:</b> none					

## Social Studies Cont'd

Personal Financial Literacy				
<b>MISD #:</b>	SST503	<b>Service Id # :</b>	03380082	<b>Credits:</b> .5 <b>Grade Level:</b> 10-12
<p><b>Cannot take the place of Economics requirements.</b> This course will develop citizens who have the knowledge and skills to make sound, informed financial decisions that will allow them to lead financially secure lifestyles and understand personal financial responsibility. The 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 postsecondary education and training</p>				
<b>Prerequisites:</b> none				

## Languages Other Than English (LOTE)

French I				
<b>MISD #:</b>	FRN100	<b>Service Id # :</b>	03410100	<b>Credits:</b> 1 <b>Grade Level:</b> 9-11
<p>French I introduces the basic language skills of viewing, showing, listening, speaking, reading and writing. French I stresses oral communication while learning basic grammar structures to reduce the risk of miscommunication. Elementary creative writing projects reinforce language skills and students will be expected to take an active role in all oral and written activities.</p>				
<b>Prerequisites:</b> none				

French II				
<b>MISD #:</b>	FRN200	<b>Service Id # :</b>	03410200	<b>Credits:</b> 1 <b>Grade Level:</b> 10-12
<p>French II begins with a review of French I and continues with additional structures, functions and vocabulary to increase language proficiency. Continued development of basic conversation skills is an important part of the class and is evaluated through creative oral activities. Students will begin writing paragraphs in French to prepare for the intermediate level.</p>				
<b>Prerequisites:</b> French I				

French III				
<b>MISD #:</b>	FRN300	<b>Service Id # :</b>	03410300	<b>Credits:</b> 1 <b>Grade Level:</b> 11-12
<p>French III continues to emphasize the communication skills established in levels I and II. Students will learn complex grammar structures and vocabulary necessary to exchange information, persuade, socialize, and express attitudes, opinions, feelings and emotions. The study of Francophone culture is highlighted through films, art, literature and authentic reading</p>				
<b>Prerequisites:</b> French II				

French III EAS				
<b>MISD #:</b>	FRN301	<b>Service Id # :</b>	03410300	<b>Credits:</b> 1 <b>Grade Level:</b> 11-12
<b>Prerequisites:</b> French II				

## Languages Other Than English (LOTE)

French IV					
<b>MISD #:</b>	FRN400	<b>Service Id # :</b>	03410400	<b>Credits:</b> 1	<b>Grade Level:</b> 12
French IV stresses oral skills, written composition, and grammar while emphasizing the use of French for active communication. Students will develop the following skills: expression of ideas orally with accuracy and fluency, acquisition of vocabulary and a grasp of structure to allow the easy, accurate reading of a variety of genres and registers.					
<b>Prerequisites:</b> French III					

AP French IV					
<b>MISD #:</b>	FRN401	<b>Service Id # :</b>	A3410100	<b>Credits:</b> 1	<b>Grade Level:</b> 12
French IV stresses oral skills, written composition, and grammar while emphasizing the use of French for active communication. Students will develop the following skills: expression of ideas orally with accuracy and fluency, acquisition of vocabulary and a grasp of structure to allow the easy, accurate reading of a variety of genres and registers. This course will prepare students for the Advanced Placement French Language.					
<b>Prerequisites:</b> French III					

German I					
<b>MISD #:</b>	GER100	<b>Service Id # :</b>	03420100	<b>Credits:</b> 1	<b>Grade Level:</b> 9-11
This course emphasizes the basic communication skills in the German language: listening, speaking, reading and writing. Listening and speaking are stressed in this introductory course. Instruction is in the form of video presentation and situational vocabulary with closely related labs and exercises. The units of study are thematically developed. German culture, German institutions, and personal life are also presented. The student can get and give information and use limited memorized material to communicate ideas.					
<b>Prerequisites:</b> none					

German II					
<b>MISD #:</b>	GER200	<b>Service Id # :</b>	03420200	<b>Credits:</b> 1	<b>Grade Level:</b> 10-11
In this course, listening and speaking activities, video presentations and situational vocabulary are continued. The student learns to narrate in the present, past, and future and give instructions and oral reports. The grammatical structures of the language are reviewed also.					
<b>Prerequisites:</b> German I					

German III					
<b>MISD #:</b>	GER300	<b>Service Id # :</b>	03420300	<b>Credits:</b> 1	<b>Grade Level:</b> 11-12
In German III, the four basic communication skills are extended. Emphasis is still on oral production. Students now read for information and pleasure and share their learning orally. The writing skills are enhanced and developed as students relate and interpret items which they have read. The grammatical structures of the language are reinforced and extended.					
<b>Prerequisites:</b> German II					

## Languages Other Than English (LOTE)

German III EAS				
<b>MISD #:</b>	GER301	<b>Service Id # :</b>	03420300	<b>Credits:</b> 1 <b>Grade Level:</b> 11-12
This course will have a far greater emphasis on grammar and will cover all other areas mentioned in German III, but in a more rigorous fashion. Students will strive to enhance their oral communications skills. Students prepare to take the Advanced Placement German test for college placement.				
<b>Prerequisites:</b> German II				

German IV				
<b>MISD #:</b>	GER400	<b>Service Id # :</b>	03420400	<b>Credits:</b> 1 <b>Grade Level:</b> 11-12
German IV students pursue the study of the four language skills and begin reading and studying literature and culture. Much of the work in this class is done independently. The students strive for proficiency in comprehension, information gathering and internalization. Students develop essays, reports and oral presentations.				
<b>Prerequisites:</b> German III				

AP German IV				
<b>MISD #:</b>	GER401	<b>Service Id # :</b>	A3420100	<b>Credits:</b> 1 <b>Grade Level:</b> 11-12
Students pursue the study of the four language skills and begin reading and studying literature and culture. Much of the work in this class is done independently. The students strive for proficiency in comprehension, information gathering and internalization. Students develop essays, reports and oral presentations. Students prepare to take the Advanced Placement German Language and Culture test for college placement.				
<b>Prerequisites:</b> German III				

Spanish I				
<b>MISD #:</b>	SPA100	<b>Service Id # :</b>	03440100	<b>Credits:</b> 1 <b>Grade Level:</b> 9-11
Spanish I introduces the basic language skills of showing, viewing, listening, reading, speaking and writing in Spanish. Students will learn vocabulary and grammatical structures necessary to communicate in everyday situations. A variety of videos, student presentations, projects, and dramatizations will reinforce language skills and introduce various aspects of Hispanic culture. Students are expected to take an active role in all oral activities to enhance proper pronunciation.				
<b>Prerequisites:</b> none				

Spanish II				
<b>MISD #:</b>	SPA200	<b>Service Id # :</b>	03440200	<b>Credits:</b> 1 <b>Grade Level:</b> 9-11
Spanish II renews the basic structures, functions and vocabulary learned in Spanish I and continues with advanced structures and vocabulary to increase language proficiency. Oral and written communication skills are practiced and evaluated through a variety of activities including dramatizations. Emphasis on Hispanic culture continues through videos and readings.				
<b>Prerequisites:</b> Spanish I				

## Languages Other Than English (LOTE)

Spanish III	
<b>MISD #:</b>	SPA300
<p>Spanish III continues to emphasize the communication skills established in levels I and II to increase proficiency. Students will learn advanced structures and vocabulary necessary to interact socially, communicate ideas, feelings and attitudes, and to provide and request information. The study of Hispanic culture will be highlighted through videos, art, literature and authentic readings.</p>	
<b>Prerequisites:</b> Spanish II	

Spanish III EAS					
<b>MISD #:</b>	SPA301	<b>Service Id # :</b>	03440300	<b>Credits:</b> 1	<b>Grade Level:</b> 10-11
<p>Spanish III EAS is a college preparatory course. It continues to emphasize the communication skills established in levels I and II to increase proficiency. Students will learn advanced structures and vocabulary necessary to interact socially, communicate ideas, feelings and attitudes, and to provide and request information. Students will further develop reading, writing and analysis skills through authentic materials. The study of Hispanic culture will be highlighted through videos, art, literature and authentic readings. Course will be primarily in Spanish. Students planning on taking AP Spanish are strongly encouraged to take this course.</p>					
<b>Prerequisites:</b> Spanish II					

Spanish IV					
<b>MISD #:</b>	SPA400	<b>Service Id # :</b>	03440400	<b>Credits:</b> 1	<b>Grade Level:</b> 12
<p>The students continue to refine advanced language production and develop higher level thinking. The focus is on oral and written language production through the study of literature, culture, and art of the Spanish speaking countries. The students strive for proficiency in comprehension, information gathering, and internalization. Students develop essays, reports, and oral presentations. Students prepare to take the AP Spanish Language and Culture test for college placement.</p>					
<b>Prerequisites:</b> Spanish III					

AP Spanish IV					
<b>MISD #:</b>	SPA401	<b>Service Id # :</b>	03440400	<b>Credits:</b> 1	<b>Grade Level:</b> 12
<p>Spanish IV AP Language and Culture course emphasizes communication (understanding and being understood by others) by applying the interpersonal, interpretive and presentational modes of communication in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The course strives not to overemphasize grammatical accuracy at the expense of communication and engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions). To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. This course prepares the student for the AP Spanish Language and Culture Exam.</p>					
<b>Prerequisites:</b> Spanish III, Through placement test					

## Languages Other Than English (LOTE)

### Spanish V

**MISD #:** SPA500      **Service Id # :** 03440500      **Credits:** 1      **Grade Level:** 12

Students continue to refine advanced Language production. The emphasis in this course focuses on oral and written language production through the study of literature and culture of Spanish speaking countries. The students strive for proficiency in information gathering and internalization.

**Prerequisites:** Spanish IV

### AP Spanish V

**MISD #:** SPA501      **Service Id # :** A3440200      **Credits:** 1      **Grade Level:** 12

Spanish V AP is a survey of Hispanic Literature. This course stresses oral skills, composition, and grammar while emphasizing the use of Spanish for active communication. The students will develop the following skills: comprehension of formal and informal spoken and written Spanish, acquisition of vocabulary and a deeper grasp of the structure to allow the student to analyze literary works. Spanish V is an introduction of Hispanic literature in all genres and epochs. This course prepares the student for the AP Spanish Literature Exam.

**Prerequisites:** Spanish IV

### Spanish VI

**MISD #:** SPA600      **Service Id # :** 03440600      **Credits:** 1      **Grade Level:** 12

The students continue to refine advanced language production and develop higher level thinking. The focus is on oral and written language production through the study of literature, culture, and art of the Spanish speaking countries. The students strive for proficiency in comprehension, information gathering, and internalization. Students develop essays, reports, and oral presentations. Students prepare to take the AP Spanish Language and Culture test for college placement.

**Prerequisites:** Spanish V

### AP Computer Science Principles

**MISD #:** LOT100      **Service Id # :** A3580300      **Credits:** 1      **Grade Level:** 10-12

AP Computer Science Principles introduces students 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:** Algebra I

### AP Computer Science A - LOTE

**MISD #:** LOT200      **Service Id # :** A3580120      **Credits:** 1      **Grade Level:** 11-12

AP Computer Science A introduces students to computer science through programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language.

**Prerequisites:** Algebra I and either Computer Science I or Fundamentals of Computer Science.



Art I				
<b>MISD #:</b>	ART100	<b>Service Id # :</b>	03500100	<b>Credits:</b> 1 <b>Grade Level:</b> 9-12
<p>Art I provides the student an opportunity to develop skills in design, drawing, painting, printmaking, and sculpture. It includes four basic strands: perception; creative expression/performance; historical/cultural heritage; and critical evaluation. These provide unifying structures for organizing the knowledge and skills students are expected to acquire. Students will be required to use memory, imagination, and real life objects/experiences as sources for art works. This course cannot be entered at mid-term.</p>				
<b>Prerequisites:</b> Art I				

Art II				
<b>MISD #:</b>	ART200	<b>Service Id # :</b>	03200200	<b>Credits:</b> 1 <b>Grade Level:</b> 9-12
<p>Course is designed to continue a sequential study of drawing, color theory, painting, printmaking, technology and three-dimensional studies. Formal compositions will be completed in realistic, abstract, and non-objective styles. Student will build upon skills learned in Art I. Computer-manipulated works are incorporated into the curriculum. This course cannot be entered at mid-term.</p>				
<b>Prerequisites:</b> Art I				

Art III				
<b>MISD #:</b>	ART300	<b>Service Id # :</b>	03500300	<b>Credits:</b> 1 <b>Grade Level:</b> 10-12
<p>Course will provide in-depth compositional studies in drawing and painting. Drawing studies will emphasize advanced life drawing techniques. Painting emphasis may be on techniques of watercolor and mixed media, plus relating art history to periods of drawing and painting. Students will also experience printmaking, technology, sculpture, and ceramics. Ceramics and sculpture will emphasize complex combinations of hand-built techniques. Computer-manipulated works are incorporated into the curriculum.</p>				
<b>Prerequisites:</b> Art II				

Art IV				
<b>MISD #:</b>	ART400	<b>Service Id # :</b>	03500400	<b>Credits:</b> .5 <b>Grade Level:</b> 9-12
<p>Art IV is an advanced course for the college-bound and career-oriented student. It is designed for talented art students who wish to pursue college level studies and build a portfolio. Emphasis will be on individual interests including advanced drawing and painting styles, two-dimensional design, color study, and digitally created art, or advanced sculpture, ceramics, and three-dimensional design.</p>				
<b>Prerequisites:</b> Art III				

AP Studio Art - Drawing				
<b>MISD #:</b>	ART500	<b>Service Id # :</b>	A3500300	<b>Credits:</b> 1 <b>Grade Level:</b> 11-12
<p>The AP Studio Art portfolios are designed for students who are seriously interested in the practical experience of art. AP Studio Art is not based on a written examination; instead, students submit portfolios for evaluation at the end of the school year. The AP Program offers three portfolios: Drawing, 2-d Design, and 3-D Design. The portfolios share a basic, three-section structure, which is explained in detail in the AP Course section at collegeboard.com. All three sections are required and carry equal weight.</p>				
<b>Prerequisites:</b> Art I and one year of another Art class				

<b>AP Studio Art - 2-D Design Portfolio</b>				
<b>MISD #:</b>	ART501	<b>Service Id # :</b>	A3500400	<b>Credits:</b> 1 <b>Grade Level:</b> 11-12
<p>For this portfolio, students are asked to demonstrate master of 2-D design through any two-dimensional medium or process, including, but not limited to, graphic design, digital imaging, photography, collage, fabric design, weaving, illustration, painting, and printmaking. Video clips, DVDs, CDs, and three dimensional works may not be submitted. Students are required to submit five actual works in one or more media to College Board for AP credit.</p>				
<b>Prerequisites:</b> Art I				

<b>Band I-IV</b>				
<b>MISD #:</b>	MUS100/200/ 300/400	<b>Service Id # :</b>	03150100-400	<b>Credits:</b> 1 <b>Grade Level:</b> 9-12
<p>Participation in all bands is subject to instructor placement determined by an audition to assess the student's instrumental technique and music reading skill. All band students are required to participate in rehearsals and performances before and after school. Band students are expected to rent or purchase their own instruments (except for certain instruments provided by the school district) and to purchase their own mouthpieces, reeds, and other accessories. Band is a full year course.</p>				
<b>Prerequisites:</b>				

<b>Jazz Band I-III</b>				
<b>MISD #:</b>	MUS110/210/ 310/410	<b>Service Id # :</b>	03150300-600	<b>Credits:</b> 1 <b>Grade Level:</b> 9-12
<p>Selection into this group is by audition, director recommendation, and demonstration of academic proficiency. Members of the Jazz Ensemble must be concurrently enrolled in one of the parent musical organizations (choir or concert band) at the discretion of the director. This class meets on an A/B rotation, and may only meet during the spring semester. The Jazz Ensemble will give numerous performances both on and off campus.</p>				
<b>Prerequisites:</b> Audition				

<b>Orchestra I-IV</b>				
<b>MISD #:</b>	MUS120/220/ 320/420	<b>Service Id # :</b>	03150500-800	<b>Credits:</b> 1 <b>Grade Level:</b> 9-12
<p>This orchestra provides an opportunity for students to continue instrumental development at an intermediate level. Time will be required outside of class for rehearsals, trips, and other engagements. Attendance at all outside of school rehearsals and performances is required. Selection into this group is by audition, director recommendation, and demonstration of academic proficiency</p>				
<b>Prerequisites:</b> Audition				

<b>AP Music Theory</b>				
<b>MISD #:</b>	MUS501	<b>Service Id # :</b>	A3150200	<b>Credits:</b> 1 <b>Grade Level:</b> 11-12
<p>Music Theory AP is an advanced course for students who will be majoring in music at the university level. The goal of this course is to develop a student's ability to recognize, understand and describe the basic materials of music. The study is by the development of the student's aural, sight-singing, written, compositional, and analytical skills through the use of music literature. Students are encouraged to take the Advanced Placement Examination in Music Theory. Note: Music Theory AP will be offered on campuses where there is sufficient student interest and instructor availability</p>				
<p><b>Prerequisites:</b> Audition, Instructor approval, current active participation in a music ensemble or private lessons, music reading ability and advanced instrumental or vocal performance skills.</p>				
<b>Choir I-IV</b>				
<b>MISD #:</b>	MUS150/250/ 350/450	<b>Service Id # :</b>	03150900-1200	<b>Credits:</b> 1 <b>Grade Level:</b> 9-12
<p>Choir courses place a strong emphasis on music reading and vocal technique, as well as the development of self-discipline, team building, and a strong work ethic in a positive atmosphere. Students are placed in a choir class that best meets their individual needs and experience. Students perform in a variety of musical styles in large and small ensembles and have the opportunity to perform as soloists. Show Choir is for students who want to combine the physical demand of choreography with music performance. Performance opportunities include Choir Concerts, UIL Concert and Sight-reading Evaluation, UIL Solo Contests, and state auditions. There may be a cost associated with participating in choir. Note: Show Choir meets the state standard for the Physical Education Graduation Requirement.</p>				
<p><b>Prerequisites:</b> Audition</p>				
<b>Applied Music</b>				
<b>MISD #:</b>	MUS170/270/ 370/470	<b>Service Id # :</b>	03152500/ 03152600-602	<b>Credits:</b> 1 <b>Grade Level:</b> 9-12
<p>The foundation of music literacy is fostered through reading, writing, reproducing, and creating music, thus developing a student's intellect. Through creative expression, students apply their music literacy and the critical-thinking skills of music to sing, play, read, write, and/or move. By experiencing musical periods and styles, students will understand the relevance of music to history, culture, and the world, including the relationship of music to other academic disciplines and the vocational possibilities offered. Through critical listening, students analyze, evaluate, and respond to music, developing criteria for making critical judgments and informed choices.</p>				
<p><b>Prerequisites:</b> none</p>				
<b>Dance I-IV</b>				
<b>MISD #:</b>	DAN100/200/ 300/400	<b>Service Id # :</b>	03830100-400	<b>Credits:</b> 1 <b>Grade Level:</b> 9-12
<p>Dance I introduces the terminology and general principles of dance. Students perform beginning/intermediate movements in a variety of genres, study choreography, develop self-discipline, and participate in group routines/projects. In Dance II, students create expressive phrases, explore the role of dance in diverse cultures, and analyze performances. Dance III extends development in styles and concepts, with opportunities for students to conduct research into dance history and develop performance evaluation skills. In Dance IV, students will develop and assess their artistic growth, create, produce, and perform dance works, design costumes, and relate dance to culture and contemporary society. A class uniform is required for all these courses, and students are required to perform in recitals and shows. There may be a cost associated with taking a Dance course. Note: After successful completion of Dance I, students will receive an additional credit in physical education.</p>				
<p><b>Prerequisites:</b> none</p>				

<b>Color Guard</b>				
<b>MISD #:</b>	MUS101/201/ 301/401	<b>Service Id # :</b>	3150100-400	<b>Credits:</b> 1 <b>Grade Level:</b> 9-12
<p>Selection into Color Guard is by audition only. Students in the color guard will perform with the marching band. Individual members will use a variety of auxiliary equipment and dance to visually enhance the marching band. The Color Guard performs in conjunction with the marching band. In the spring semester, the Color Guard continues performance through the Winter Guard program. There may be a cost associated with taking these courses.</p>				
<b>Prerequisites:</b> Audition				

<b>Theatre Arts I-IV</b>				
<b>MISD #:</b>	THE100/200/ 300/400	<b>Service Id # :</b>	03250100-400	<b>Credits:</b> 1 <b>Grade Level:</b> 9-12
<p>Theater I is an introduction to the elements of theatre, including basic acting techniques, technical theatre, interpretation of dramatic literature, stage movement, mime, voice and diction, improvisation, and scene presentation. Students will practice relaxation and preparatory techniques, examine dramatic structure, and develop audience appreciation skills by attending live theatrical performances. Students will participate in performances during class as an actor or part of a crew numerous times throughout the year. Theater II-IV is a continuation of learning the above elements of theatre, as well theatre history, basic stage makeup techniques, reader's theatre, and duet acting. There may be a cost associated with taking Theatre I-IV.</p>				
<b>Prerequisites:</b>				

<b>Theatre Production I-IV</b>				
<b>MISD #:</b>	THE110/210/ 310/410	<b>Service Id # :</b>	03250700-1000	<b>Credits:</b> 1 <b>Grade Level:</b> 9-12
<p>Theatre Production classes are geared toward learning through production work. Outside commitment is required. There is an emphasis on directing and students will learn how to make a production notebook. In theatre production classes, students are provided opportunities to learn about and participate in all aspects of theatre production. Students will learn increasingly more difficult performance and technical skills and are required to participate in productions for the community and school. There may be a cost associated with taking these courses.</p>				
<b>Prerequisites:</b> Audition				

<b>Technical Theatre I-III</b>				
<b>MISD #:</b>	THE120/220/3 20/420	<b>Service Id # :</b>	03250500/600/ 1100/1200	<b>Credits:</b> 1 <b>Grade Level:</b> 9-12
<p>Fundamentals of stage design, set and property construction, costumes and make-up, as well as the principles of stage lighting and sound are presented in this course. Students will learn all responsibilities of a production crew including the job of stage manager, director, and assistant director. Technical Theatre II-IV is a continuation of learning the above technical elements of theatre. There may be a cost associated with taking a Technical Theatre course, and students are encouraged to attend play rehearsals and serve on production crews.</p>				
<b>Prerequisites:</b> Portfolio Review may be required				

**Floral Design****MISD #:** FFL100      **Service Id # :** 13001800      **Credits:** 1      **Grade Level:** 10-12

This course is designed to develop student's ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of a floral business.

**Prerequisites:** none**Athletics and Physical Education****Athletic Training****MISD #:** ATR100-400      **Service Id # :** PES00000-03      **Credits:** 1      **Grade Level:** 9-12

Athletic Training takes a detailed approach to the prevention, treatment, and rehabilitation of athletic injuries. This class requires strenuous physical activity. Students will learn how to use different modalities in the rehab process. Students are expected to cover assigned sports by being present at games and practices. Note: Students receive one physical education substitution credit for each year of successful completion of Athletic Training I & II.

**Prerequisites:** Instructor Approval**Cheerleading****MISD #:** PED110      **Service Id # :** PES00013      **Credits:** 1      **Grade Level:** 09-12

Cheerleaders promote participation in and support the athletic teams and student body. In addition to kinesthetic fundamentals of dance, stunting, and tumbling, cheerleaders will develop skills of leadership, cooperation, self-discipline, and sportsmanship. There are a limited number of participants selected and tryouts are in the spring following a week-long tryout clinic. Note: Students receive one physical education substitution credit for the first year of cheerleading. Remaining credits in cheerleading will either be local or state PE credits depending upon the teacher certification and will be used to determine grade point average (GPA). Local credits will not be counted toward the state recommended graduation plan of 26 credits.

**Prerequisites:** Audition**Drill Team****MISD #:** PED115      **Service Id # :** PES00014      **Credits:** 1      **Grade Level:** 9-12

The Drill Team is available to students who participate in the annual auditions and are chosen to be on the team. This group rehearses extensively outside regular class hours. Performances are given regularly for athletic events, pep rallies, contests, community events, and shows throughout the year. The Drill Team meets daily. There may be a cost associated with taking these courses. Note: Students will receive an additional physical education substitution credit for the fall semester of Dance Team not to exceed one full credit.

**Prerequisites:** Audition**Marching Band****MISD #:** PED120/220      **Service Id # :** PES00012      **Credits:** 1      **Grade Level:** 09-12

These bands march at varsity football games and compete in marching contests sponsored by the University Interscholastic League (UIL) and other organizations.

**Prerequisites:** Audition

<b>ROTC</b>				
<b>MISD #:</b>	PED130	<b>Service Id # :</b>	PES00004	<b>Credits:</b> 1 <b>Grade Level:</b> 09-12
These bands march at varsity football games and compete in marching contests sponsored by the University Interscholastic League (UIL) and other organizations.				
<b>Prerequisites:</b> Audition				

<b>Aerobic Activities</b>				
<b>MISD #:</b>	PED102	<b>Service Id # :</b>	PES00054	<b>Credits:</b> 1 <b>Grade Level:</b> 9-12
Students in aerobic activities are exposed to a variety of activities that promote health-related fitness. A major expectation of this course is for the student to design a personal fitness program that uses aerobic activities as a foundation.				
<b>Prerequisites:</b> None				

<b>Individual or Team Sport</b>				
<b>MISD #:</b>	PED104	<b>Service Id # :</b>	PES00055	<b>Credits:</b> 1 <b>Grade Level:</b> 9-12
In Team or Individual Sports, students are expected to participate in a wide variety of sports that promote health-related fitness, develop an appreciation for teamwork and fair play, and gain competency in two or more sports.				
<b>Prerequisites:</b>				

<b>Foundations of Personal Fitness</b>				
<b>MISD #:</b>	PED103	<b>Service Id # :</b>	PES00052	<b>Credits:</b> 1 <b>Grade Level:</b> 09-12
The major purpose of Foundations of Personal Fitness is to motivate students to strive for lifetime fitness with an emphasis on the health related components of physical fitness.				
<b>Prerequisites:</b>				

<b>Athletics</b>				
<b>MISD #:</b>		<b>Service Id # :</b>	PES00013	<b>Credits:</b> 1 <b>Grade Level:</b> 09-12
Students may be enrolled in only one section during the regular school day for practice of inter-school competitive athletics and for programs in which body conditioning, training, and other activities in one of the team sports is the objective of the teacher and students. Students who enroll in an athletic class will be subject to removal and placed in a Physical Education class for the remainder of the semester if they do not meet the athletic standard required for participation on a competitive team. All students must pass a physical examination each year of athletics and complete all other appropriate forms. Athletic team classes meet every day. Note: Students receive one PE substitution credit for each year of successful completion of Athletics for a maximum of four credits. All remaining Athletic credits are local credits and will not be counted toward the state recommended graduation plan of 26 credits.				
<b>Prerequisites:</b> Member of the athletic team, Coach's recommendation and approval				

# Career & Technical Education (CTE) Course Descriptions

## Career Development

### Career Preparation I | Extended - (CAREERP1 or EXCAREE1)

**MISD #:** AR015      **Service Id # :** 12701300;305      **Credits:** 2 or 3      **Grade Level:** 11-12

Extended Career Preparation provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

**Prerequisites:** Successful completion of one or more advanced career and technical education courses that are part of a coherent sequence of courses in a Career Cluster related to the field in which the student will be employed.

### Career Preparation II | Extended - (CAREERP2 or EXCAREE2)

**MISD #:** CAR025      **Service Id # :** 12701400;405      **Credits:** 2 or 3      **Grade Level:** 12

Extended Career Preparation provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

**Prerequisites:** Successful completion of one or more advanced career and technical education courses that are part of a coherent sequence of courses in a Career Cluster related to the field in which the student will be employed.

## Agriculture, Food, and Natural Resources

### Principles of Agriculture, Food, and Natural Resources (PRINAFNR)

**MISD #:** AGR010      **Service Id # :** 13000200      **Credits:** 1      **Grade Level:** 9-12

Principles of Agriculture, Food, and Natural Resources will allow students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations.

**Prerequisites:** none

### Livestock Production (LIVEPROD)

**MISD #:** AGR020      **Service Id # :** 13000300      **Credits:** 1      **Grade Level:** 12

In Livestock Production, students will acquire knowledge and skills related to livestock and the livestock production industry. Livestock Production may address topics related to beef cattle, dairy cattle, swine, sheep, goats, and poultry.

**Prerequisites:** none

<b>Veterinary Medical Applications (VETMEDAP)</b>				
<b>MISD #:</b>	AGR030	<b>Service Id # :</b>	13000600	<b>Credits:</b> 1 <b>Grade Level:</b> 9-12
Veterinary Medical Applications covers topics relating to veterinary practices, including practices for large and small animal species.				
<b>Prerequisites:</b> Equine Science, Small Animal Management, or Livestock Production				

<b>Advanced Animal Science (ADVANSKI)</b>				
<b>MISD #:</b>	AGR040	<b>Service Id # :</b>	13000700	<b>Credits:</b> .5 <b>Grade Level:</b> 10-12
Advanced Animal Science examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. Note: This course satisfies a science credit requirement for students on the Foundation High School Program.				
<b>Prerequisites:</b> Biology and Chemistry or Integrated Physics and Chemistry (IPC); Algebra I and Geometry; and either Small Animal Management, Equine Science, or Livestock Production. Recommended Prerequisite: Veterinary Medical Applications.				

<b>Floral Design (FLORAL)</b>				
<b>MISD #:</b>	AGR050	<b>Service Id # :</b>	13001800	<b>Credits:</b> 1 <b>Grade Level:</b> 09-12
Floral Design 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. Note: This course satisfies a fine arts credit requirement for students on the Foundation High School Program.				
<b>Prerequisites:</b> none				

<b>Advanced Floral Design (ADVFLDS)</b>				
<b>MISD #:</b>	AGR055	<b>Service Id # :</b>	N1300270	<b>Credits:</b> 1 <b>Grade Level:</b> 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. Through the analysis and evaluation of various occasion and event types, students explore the design needs and expectations of clients and propose and evaluate appropriate creations. From conception to evaluation, students are challenged to create and design appropriate specialty floral designs that meet the needs of the client. Furthermore, an emphasis on budgetary adherence and entrepreneurship equips students with many of the necessary skills needed for success in floral enterprises.				
<b>Prerequisites:</b> Floral Design				



## Principles of Arts, Audio/Video Technology, and Communications (PRINAAVTC)

**MISD #:** AAV010      **Service Id # :** 13008200      **Credits:** 1      **Grade Level:** 9

The goal of this course is that the student understands 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

## Audio/Video Production I (AVPROD1)

**MISD #:** AAV040      **Service Id # :** 13008500      **Credits:** 1      **Grade Level:** 10-12

In addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the industry with a focus on pre-production, production, and post production audio and video products.

**Prerequisites:** Recommended Principles of Arts, Audio/Video Technology, and Communications

## Audio/Video Production II/Audio/Video Production II Lab (AVPLAB2)

**MISD #:** AAV050      **Service Id # :** 13008610      **Credits:** 2      **Grade Level:** 10-12

Building upon the concepts taught in Audio/Video Production, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production, and post- production products. Through diverse forms of storytelling and production, students will exercise and develop creativity, intellectual curiosity, and critical-thinking, problem-solving, and collaborative skills. This course may be implemented in an audio format or a format with both audio and video. Requiring a lab requisite for the course affords necessary time devoted specifically to the production and post-production process.

**Prerequisites:** Audio/Video Production I

## Commercial Photography I (CPHOTO1)

**MISD #:** AAV080      **Service Id # :** 13009100      **Credits:** 1      **Grade Level:** 10-12

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 commercial photography industry with a focus on creating quality photographs.

**Prerequisites:** none

## Graphic Design and Illustration I (GRAPHDI1)

**MISD #:** AAV020      **Service Id # :** 13008800      **Credits:** 1      **Grade Level:** 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:** Recommended Principles of Arts, Audio/Video Technology, and Communications

## Arts, A/V Technology, and Communications Cont'd

### Graphic Design and Illustration II/Graphic Design and Illustration II Lab (GRDLAB2)

**MISD #:** AAV030      **Service Id # :** 13008910      **Credits:** 2      **Grade Level:** 11-12

Within this context, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an advanced understanding of the industry with a focus on mastery of content knowledge and skills. Districts are encouraged to offer this lab in a consecutive block with Graphic Design and Illustration II to allow students sufficient time to master the content of both courses.

**Prerequisites:** Graphic Design and Illustration I

## Business, Marketing, and Finance

### Principles of Business, Marketing, and Finance (PRINBMF)

**MISD #:** BMF110      **Service Id # :** 13011200      **Credits:** 1      **Grade Level:** 9-12

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, the marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in business, marketing, and finance.

**Prerequisites:** none

### Business Information Management I (BUSIM1)

**MISD #:** BMF010      **Service Id # :** 13011400      **Credits:** 1      **Grade Level:** 9-12

In Business Information Management I, students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.

**Prerequisites:** none

### Business Information Management II (BUSIM2)

**MISD #:** BMF020      **Service Id # :** 13011500      **Credits:** 1      **Grade Level:** 10-12

In Business Information Management II, students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies, create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs, and make an electronic presentation using appropriate multimedia software.

**Prerequisites:** Business Information Management I

## Business Management (BUSMGT)

**MISD #:** BMF030      **Service Id # :** 13012100      **Credits:** .5      **Grade Level:** 10-12

Business Management is designed to familiarize students with the concepts related to business management as well as the functions of management, including planning, organizing, staffing, leading, and controlling. Students will also demonstrate interpersonal and project-management skills.

**Prerequisites:** none

## Financial Mathematics (FINMATH)

**MISD #:** BMF060      **Service Id # :** 13018000      **Credits:** 1      **Grade Level:** 10-12

Financial Mathematics 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. Note: This course satisfies a math credit requirement for students on the Foundation High School Program

**Prerequisites:** Algebra I

## Accounting I (ACCOUNT1)

**MISD #:** BMF040      **Service Id # :** 13016600      **Credits:** 1      **Grade Level:** 9-12

In Accounting I, students will investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in the process of recording, classifying, summarizing, analyzing, and communicating accounting information. Students will formulate and interpret financial information for use in management decision making. Accounting includes such activities as bookkeeping, systems design, analysis, and interpretation of accounting information.

**Prerequisites:** Recommended Principles of Business, Marketing, and Finance

## Accounting II (ACCOUNT2)

**MISD #:** BMF050      **Service Id # :** 13016700      **Credits:** 1      **Grade Level:** 10-12

In Accounting II, students will 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 will reflect on this knowledge as they engage in various managerial, financial, and operational accounting activities. Students will formulate, interpret, and communicate financial information for use in management decision making. Students will use equations, graphical representations, accounting tools, spreadsheet software, and accounting systems in real-world situations to maintain, monitor, control, and plan the use of financial resources. Note: This course satisfies a math credit requirement for students on the Foundation High School Program.

**Prerequisites:** Accounting I

## Statistics and Business Decision Making (STATBDM)

**MISD #:** BMF070      **Service Id # :** 13016900      **Credits:** 1      **Grade Level:** 11-12

Statistics and Business Decision Making is an introduction to statistics and the application of statistics to business decision making. Students will use statistics to make business decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid. Note: This course satisfies a math credit requirement for students on the Foundation High School Program.

**Prerequisites:** Algebra II

## Principles of Education and Training (PRINEDTR)

**MISD #:** EDU000      **Service Id # :** 13014200      **Credits:** 1      **Grade Level:** 9-10

Principles of Education and Training 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

## Child Development (CHILDDEV)

**MISD #:** EDU010      **Service Id # :** 13024700      **Credits:** 1      **Grade Level:** 10-12

Child Development is a technical laboratory course that 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:** none

## Instructional Practices (INPRAC)

**MISD #:** EDU020      **Service Id # :** 13014400      **Credits:** 2      **Grade Level:** 11-12

Instructional Practices is a field-based (practicum) internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators or trainers in direct instructional roles with elementary-, middle school-, and high school-aged students. Students 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, trainers, paraprofessionals, or other educational personnel.

**Prerequisites:** Recommended Principles of Education and Training and Human Growth and Development.

## Practicum in Education and Training (PRACEDT1)

**MISD #:** EDU030      **Service Id # :** 13014500      **Credits:** .5      **Grade Level:** 10-12

Practicum in Education and Training 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 in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and complete other responsibilities of classroom teachers, trainers, paraprofessionals, or other educational personnel.

**Prerequisites:** Instructional Practices

**Oil and Gas Production I (OILGP1)**

**MISD #:** ENR010      **Service Id # :** 13001250      **Credits:** 1      **Grade Level:** 9

In Oil and Gas Production I, students will identify specific career opportunities and skills, abilities, tools, certification, and safety measures associated with each career. Students will also understand components, systems, equipment, and production and safety regulations associated with oil and gas wells.

**Prerequisites:** none

**Oil and Gas Production II (OILGP2)**

**MISD #:** ENR020      **Service Id # :** 13001260      **Credits:** 1      **Grade Level:** 10-12

In Oil and Gas Production II, students will gain knowledge of the specific requirements for entry into post-secondary education and employment in the petroleum industry; research and discuss petroleum economics; research and discuss the modes of transportation in the petroleum industry; research and discuss environmental, health, and safety concerns; research and discuss different energy sources; and prepare for industry certification.

**Prerequisites:** Oil & Gas Production I

**Oil and Gas Production III (OILGP3)**

**MISD #:** ENR030      **Service Id # :** 13040500      **Credits:** 1      **Grade Level:** 10-12

A study of the petroleum industry will be conducted from the data management perspective. Current knowledge and technical aspects of the oil and gas industry will be reviewed with regard to the various operational functionalities of well completions under various wellbore conditions. This course prepares students to assess the effects of drilling through the production formation and choose tools and procedures for completing a drilled wellbore. This course may be taught with related courses in petroleum engineering technology.

**Prerequisites:** Oil & Gas Production II

**Oil and Gas Production IV (OILGP4)**

**MISD #:** ENR040      **Service Id # :** 13040501      **Credits:** 1      **Grade Level:** 10-12

A study of the petroleum industry will be conducted from the data management perspective. Current knowledge and technical aspects of the oil and gas industry will be reviewed with regard to the various operational functionalities of well completions under various wellbore conditions. This course prepares students to assess the effects of drilling through the production formation and choose tools and procedures for completing a drilled wellbore. This course may be taught with related courses in petroleum engineering technology.

**Prerequisites:** Oil & Gas Production III

## Principles of Health Science (PRINHLSC)

**MISD #:** HSC000      **Service Id # :** 13020200      **Credits:** 1      **Grade Level:** 9

The Principles of Health Science course is designed to provide an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the healthcare industry.

**Prerequisites:** none

## Medical Terminology (MEDTERM)

**MISD #:** HSC010      **Service Id # :** 113020300      **Credits:** 1      **Grade Level:** 10-12

The Medical Terminology course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

**Prerequisites:**

## Anatomy and Physiology (ANATPHYS)

**MISD #:** HSC100      **Service Id # :** 13020600      **Credits:** 1      **Grade Level:** 10-12

The Anatomy and Physiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis. Note: This course satisfies a science credit requirement for students on the Foundation High School Program.

**Prerequisites:** Biology and a second science credit

## Health Science Theory/Health Science Clinical - CNA (HLSCLIN NA - D)

**MISD #:** HSC020      **Service Id # :** 13020410

The Health Science CNA Clinical course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development. Districts are encouraged to offer this course in a consecutive block with Health Science Theory to allow students sufficient time to master the content of both courses.

**Prerequisites:** none

## Pathophysiology & Pharmacology

**MISD #:** HSC050/60      **Service Id # :** 13020800/950

The Pathophysiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology will study disease processes and how humans are affected. The Pharmacology course is designed to study how natural and synthetic chemical agents such as drugs affect biological systems. Knowledge of the properties of therapeutic agents is vital in providing quality health care. It is an ever-changing, growing body of information that continually demands greater amounts of time and education from health care workers.

**Prerequisites:** none

<b>Practicum in Health Science - Nurse Aide (PRACHLS1 NA - D)</b>				
<b>MISD #:</b>	HSC030	<b>Service Id # :</b>	13020500	<b>Credits:</b> 1 <b>Grade Level:</b> 12
The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.				
<b>Prerequisites:</b> Health Science Theory and Biology				

<b>Practicum in Health Science - Patient Care Technician (PRACHLS1 PCT - D)</b>				
<b>MISD #:</b>	HSC040	<b>Service Id # :</b>	13020500	<b>Credits:</b> 1 <b>Grade Level:</b> 12
The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.				
<b>Prerequisites:</b> Health Science Theory and Biology				

<b>Practicum in Health Science - Pharmacy Technician (PRACHLS1 PHT - D)</b>				
<b>MISD #:</b>	HSC070	<b>Service Id # :</b>	13020500	<b>Credits:</b> 1 <b>Grade Level:</b> 12
The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.				
<b>Prerequisites:</b> Health Science Theory and Biology				

## Principles of Hospitality and Tourism (PRINHOSP)

**MISD #:** HOS000      **Service Id # :** 13022200      **Credits:** 1      **Grade Level:** 9

Principles of Hospitality and Tourism introduces students to an industry that encompasses lodging, travel and tourism, recreation, amusements, attractions, and food/beverage operations. Students learn 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 in that industry.

**Prerequisites:** none

## Introduction to Culinary Arts (INCULART)

**MISD #:** HOS010      **Service Id # :** 13022550      **Credits:** 1      **Grade Level:** 9-10

Introduction to Culinary Arts will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. Introduction to Culinary Arts will provide insight into food production skills, various levels of industry management, and hospitality skills. This is an entry level course for students interested in pursuing a career in the food service industry. This course is offered as a classroom and laboratory-based course.

**Prerequisites:** Recommended Principles of Hospitality and Tourism

## Culinary Arts (CULARTS)

**MISD #:** HOS020      **Service Id # :** 13022600      **Credits:** 2      **Grade Level:** 10-12

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification or other appropriate industry certifications. This course is offered as a laboratory-based course

**Prerequisites:** Introduction to Culinary Arts

## Advanced Culinary Arts (ADCULART)

**MISD #:** HOS030      **Service Id # :** 13022650      **Credits:** 2      **Grade Level:** 11-12

Advanced Culinary Arts will extend content and enhance skills introduced in Culinary Arts by in depth instruction of industry-driven standards to prepare students for success in higher education, certifications, and/or immediate employment.

**Prerequisites:** Culinary Arts



## Hospitality and Tourism Cont'd

### Travel and Tourism Management (TRTORMGT)

**MISD #:** HOS040      **Service Id # :** 13022500      **Credits:** 1      **Grade Level:** 10-12

Travel and Tourism Management incorporates management principles and procedures of the travel and tourism industry as well as destination geography, airlines, international travel, cruising, travel by rail, lodging, recreation, amusements, attractions, and resorts. Employment qualifications and opportunities are also included in this course.

**Prerequisites:** none

### Hospitality Services (HOSPSRVS)

**MISD #:** HOS050      **Service Id # :** 13022800      **Credits:** 2      **Grade Level:** 11-12

Hospitality Services provides students with the academic and technical preparation to pursue high-demand and high-skill careers in hospitality related industries. The knowledge and skills are acquired within a sequential, standards-based program that integrates hands-on and project-based instruction. Standards included in the Hospitality Services course are designed to prepare students for nationally recognized industry certifications, postsecondary education, and entry-level careers. In addition, Hospitality Services is designed so that performance standards meet employer expectations, enhancing the employability of students. Instruction may be delivered through laboratory training or through internships, mentoring, or job shadowing.

**Prerequisites:** none

## Human Services

### Introduction to Cosmetology (INTCOSMO)

**MISD #:** HUS010      **Service Id # :** 13025100      **Credits:** 1      **Grade Level:** 10

In Introduction to Cosmetology, students explore careers in the cosmetology industry. To prepare for success, students must have academic and technical knowledge and skills relative to the industry. Students may begin to earn hours toward state licensing requirements.

**Prerequisites:** none

### Cosmetology I (COSMETI)

**MISD #:** HUS020      **Service Id # :** 13025200      **Credits:** 2      **Grade Level:** 11

In Cosmetology I, students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the Texas Department of Licensing and Regulation (TDLR) requirements for licensure upon passing the state examination. Analysis of career opportunities, license requirements, knowledge and skills expectations, and development of workplace skills are included.

**Prerequisites:** Introduction to Cosmetology

<b>Cosmetology II/Cosmetology II Lab</b>					
<b>MISD #:</b>	HUS030	<b>Service Id # :</b>	13025310	<b>Credits:</b> 3	<b>Grade Level:</b> 12
<p>In Cosmetology II, students will demonstrate proficiency in academic, technical, and practical knowledge and skills. The content is designed to provide the occupational skills required for licensure. Instruction includes advanced training in professional standards/employability skills; Texas Department of Licensing and Regulation (TDLR) rules and regulations; use of tools, equipment, technologies, and materials; and practical skills. This course must be taken concurrently with Cosmetology II and may not be taken as a standalone course. Districts are encouraged to offer this lab in a consecutive block with Cosmetology II to allow students sufficient time to master the content of both courses.</p>					
<b>Prerequisites:</b> Cosmetology I					

<b>Principles of Law, Public Safety, Corrections, and Security (PRINLPCS)</b>					
<b>MISD #:</b>	LPS010	<b>Service Id # :</b>	13029200	<b>Credits:</b> 1	<b>Grade Level:</b> 10-11
<p>Principles of Law, Public Safety, Corrections, and Security 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.</p>					
<b>Prerequisites:</b>					

<b>Correctional Services (CORRSRVS)</b>					
<b>MISD #:</b>	LPS040	<b>Service Id # :</b>	13029700	<b>Credits:</b> 1	<b>Grade Level:</b> 10-12
<p>In Correctional Services, students prepare for certification required for employment as a municipal, county, state, or federal correctional officer. Students 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. Students will analyze rehabilitation and alternatives to institutionalization for inmates.</p>					
<b>Prerequisites:</b> Principles of Law, Public Safety, Corrections, and Security					

<b>Firefighter I (FIRE1)</b>					
<b>MISD #:</b>	LPS070	<b>Service Id # :</b>	13029900	<b>Credits:</b> 2	<b>Grade Level:</b> 10
<p>Firefighter I introduces students to firefighter safety and development. Students will analyze Texas Commission on Fire Protection rules and regulations, proper incident reporting and records, proper use of personal protective equipment, and the principles of fire safety. - Coleman High School</p>					
<b>Prerequisites:</b> Principles of Law, Public Safety, Corrections, and Security					

<b>Firefighter II (FIRE2)</b>				
<b>MISD #:</b>	LPS080	<b>Service Id # :</b>	13030000	<b>Credits:</b> 3 <b>Grade Level:</b> 11
<p>Firefighter II is the second course in a series for students studying firefighter safety and development. Students will understand Texas Commission on Fire Protection rules and regulations, proper incident reporting and records, proper use of personal protective equipment, and the principles of fire safety. Students will demonstrate proper use of fire extinguishers, ground ladders, fire hoses, and water supply apparatus systems.</p>				
<b>Prerequisites:</b> Firefighter I				

<b>Emergency Medical Technician Basic (EMTB)</b>				
<b>MISD #:</b>	HSC080	<b>Service Id # :</b>	N1303015	<b>Credits:</b> 2 <b>Grade Level:</b> 12
<p>Emergency Medical Technician (EMT)—Basic instructs students to meet and exceed standard knowledge needed to be a competent Emergency Medical Technician. The curriculum includes skills necessary for a student to provide entry level emergency medical care, life support, and ambulance service. The EMT—Basic course is an introductory course to concepts, knowledge, and skills needed by EMTs in the areas of communications, transportation, and recordkeeping. Students interested in working in public safety, including fire, police, and ambulance operators will be capable of performing the job expectations of an EMT safely and effectively after the completion of this course.</p>				
<b>Prerequisites:</b> Biology, Firefighter I, Principles of Law, Public Safety, Corrections, and Security				

<b>Law Enforcement I (LAWENF1)</b>				
<b>MISD #:</b>	LPS020	<b>Service Id # :</b>	13029300	<b>Credits:</b> 1 <b>Grade Level:</b> 11
<p>Law Enforcement I is 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.</p>				
<b>Prerequisites:</b> Principles of Law, Public Safety, Corrections, and Security				

<b>Law Enforcement II (LAWENF2)</b>				
<b>MISD #:</b>	LPS030	<b>Service Id # :</b>	13029400	<b>Credits:</b> 1 <b>Grade Level:</b> 12
<p>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.</p>				
<b>Prerequisites:</b> Law Enforcement I				

<b>Forensic Science (FORENSCI)</b>				
<b>MISD #:</b>	LPS050	<b>Service Id # :</b>	13029500	<b>Credits:</b> 1 <b>Grade Level:</b> 12
<p>Forensic Science is a course that introduces students to the application of science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Students will learn terminology and procedures related to the search and examination of physical evidence in criminal cases as they are performed in a typical crime laboratory. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, and cartridge cases.</p>				
<b>Prerequisites:</b> Biology and Chemistry				

## Principles of Applied Engineering (PRAPPENG)

**MISD #:** STM000      **Service Id # :** 13036200      **Credits:** 1      **Grade Level:** 9

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

## Engineering Design and Presentation I (ENGDSPRI)

**MISD #:** STM010      **Service Id # :** 13036500      **Credits:** 1      **Grade Level:** 12

Engineering Design and Presentation I is a continuation of knowledge and skills learned in Principles of Applied Engineering. Students enrolled in this course will demonstrate knowledge and skills of the design process as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students will transfer advanced academic skills to component designs. Additionally, students explore career opportunities in engineering, technology, and drafting and what is required to gain and maintain employment in these areas.

**Prerequisites:** Algebra I, Principles of Applied Engineering

## Robotics I (ROBOTIC1)

**MISD #:** STM030      **Service Id # :** 13037000      **Credits:** 1      **Grade Level:** 11

In Robotics I, students will transfer academic skills to component designs in a project- based environment through implementation of the design process. Students will build prototypes or use simulation software to test their designs. Additionally, students will explore career opportunities, employer expectations, and educational needs in the robotic and automation industry.

**Prerequisites:** Principles of Applied Engineering

## Robotics II (ROBOTIC2)

**MISD #:** STM040      **Service Id # :** 13037050      **Credits:** 1      **Grade Level:** 11

In Robotics II, students will explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs. Note: This course satisfies a math credit requirement.

**Prerequisites:** Robotics I

<b>Welding I (WELD1)</b>				
<b>MISD #:</b>	MFG020	<b>Service Id # :</b>	13032300	<b>Credits:</b> 2 <b>Grade Level:</b> 11
<p>Welding I provide the knowledge, skills, and technologies required for employment in metal technology systems. Students will develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success.</p>				
<b>Prerequisites:</b> none				

<b>Welding II (WELD2)</b>				
<b>MISD #:</b>	MFG030	<b>Service Id # :</b>	13032400	<b>Credits:</b> 2 <b>Grade Level:</b> 11
<p>Welding II builds on the knowledge and skills developed in Welding I. Students will develop advanced welding concepts and skills as related to personal and career development. Students will integrate academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.</p>				
<b>Prerequisites:</b> none				

<b>Principles of Applied Engineering (PRAPPENG)</b>				
<b>MISD #:</b>	STM000	<b>Service Id # :</b>	13036200	<b>Credits:</b> 1 <b>Grade Level:</b> 9
<p>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.</p>				
<b>Prerequisites:</b> none				

<b>Computer Science I (TACSI)</b>				
<b>MISD #:</b>	STM110	<b>Service Id # :</b>	03580200	<b>Credits:</b> 1 <b>Grade Level:</b> 11
<p>Computer Science I will 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 various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts.</p>				
<b>Prerequisites:</b> Algebra I				

**Engineering Design and Presentation I (ENGDSPR1)**

<b>MISD #:</b> STM205	<b>Service Id # :</b> 13036500	<b>Credits:</b> 1	<b>Grade Level:</b> 10-11
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Engineering Design and Presentation I is a continuation of knowledge and skills learned in Principles of Applied Engineering. Students enrolled in this course will demonstrate knowledge and skills of the design process as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students will transfer advanced academic skills to component designs. Additionally, students explore career opportunities in engineering, technology, and drafting and what is required to gain and maintain employment in these areas.

**Prerequisites:** Algebra I, Principles of Applied Engineering

**Engineering Design and Presentation II (ENGDSPR2)**

<b>MISD #:</b> STM210	<b>Service Id # :</b> 13036600	<b>Credits:</b> 1	<b>Grade Level:</b> 12
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Engineering Design and Presentation II is a continuation of knowledge and skills learned in Engineering Design and Presentation I. Students enrolled in this course will demonstrate knowledge and skills of the design process as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students will transfer advanced academic skills to component designs. Emphasis will be placed on using skills from ideation through prototyping.

**Prerequisites:** Algebra I and Geometry, Principles of Applied Engineering or Engineering Design and Presentation I

**AP Computer Science A**

<b>MISD #:</b> STM070	<b>Service Id # :</b> A3580120	<b>Credits:</b> 1	<b>Grade Level:</b> 11-12
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4th year Math. This foundation course was designed by TEA to provide students with skills in using a programming language, currently Java, to help students create solutions for real world problems that can be represented or manipulated inside a computer. Students are taught higher level thinking skills to produce computer programs and are shown how commercial software utilizes these same techniques to solve problems. Students have the option of receiving college credit for the course through successful completion of the Advanced Placement Computer Science A Exam.

**Prerequisites:** Algebra II

**Engineering Design and Problem Solving (ENG DPRS)**

**MISD #:** STM200      **Service Id # :** 13037300      **Credits:** 1      **Grade Level:** 11-12

The Engineering Design and Problem-Solving course is the creative process of solving problems by identifying needs and then devising solutions. The solution may be a product, technique, structure, or process depending on the problem. Science aims to understand the natural world, while engineering seeks to shape this world to meet human needs and wants. Engineering design takes into consideration limiting factors or "design under constraint." Various engineering disciplines address a broad spectrum of design problems using specific concepts from the sciences and mathematics to derive a solution. The design process and problem solving are inherent to all engineering disciplines.

**Prerequisites:** Algebra I and Geometry

**AP Computer Science Principles (APCSPRIN)**

**MISD #:** STM060      **Service Id # :** A3580300      **Credits:** 1      **Grade Level:** 10-11

Content requirements for Advanced Placement (AP) Computer Science Principles are prescribed in the College Board Publication Advanced Placement® Curriculum Framework: AP Computer Science Principles, published by The College Board.

**Prerequisites:** Algebra I

## Transportation

**Automotive Technology I (AUTOTEC1)**

**MISD #:** TRN020      **Service Id # :** 13039600      **Credits:** 2      **Grade Level:** 11

Automotive Technology I: Maintenance and Light Repair includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. This course includes applicable safety and environmental rules and regulations. In Automotive Technology I: Maintenance and Light Repair, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

**Prerequisites:** OSET1

**Automotive Technology II (AUTOTEC2)**

**MISD #:** TRN025      **Service Id # :** 13039700      **Credits:** 2      **Grade Level:** 12

Automotive Technology II: Automotive Service includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. Automotive Technology II: Automotive Service includes applicable safety and environmental rules and regulations. In this course, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

**Prerequisites:** Automotive Technology I

<b>Paint and Refinishing (PAINTREF)</b>				
<b>MISD #:</b>	TRN030	<b>Service Id # :</b>	:13039800	<b>Credits:</b> 2 <b>Grade Level:</b> 11-12
Paint and Refinishing includes knowledge of the processes, technologies, and materials used in the reconstruction of vehicles. This course is designed to teach the concepts and theory of systems related to automotive paint and refinishing.				
<b>Prerequisites:</b> Collision and Repair				

<b>Diesel Equipment Technology I (DIEQTEC1)</b>				
<b>MISD #:</b>	TRN040	<b>Service Id # :</b>	13040150	<b>Credits:</b> 2 <b>Grade Level:</b> 11-12
Diesel Equipment Technology I includes knowledge of the function and maintenance of diesel systems. Rapid advances in diesel technology have created new career opportunities and demands in the transportation industry. This course provides the knowledge, skills, and technologies required for employment in transportation systems.				
<b>Prerequisites:</b> OSET1				

<b>Diesel Equipment Technology II (DIEQTEC2)</b>				
<b>MISD #:</b>	TRN050	<b>Service Id # :</b>	13040160	<b>Credits:</b> 2 <b>Grade Level:</b> 12
Diesel Equipment Technology II includes knowledge of the function, diagnosis, and service of diesel equipment systems. Rapid advances in diesel technology have created new career opportunities and demands in the transportation industry. This course provides the advanced knowledge, skills, and technologies required for employment in transportation systems.				
<b>Prerequisites:</b> Diesel Equipment Technology I				

<b>Occupational Safety &amp; Environmental Technology I and II (OSET1 and OSET2)</b>				
<b>MISD #:</b>	ENR000	<b>Service Id # :</b>	N1303680/81	<b>Credits:</b> 1 <b>Grade Level:</b> 11
OSET1, Students will investigate the field of Occupational Safety and Health Administration and Environmental Technology, which is charged with the tasks of ensuring that business and industry provide a safe workplace, free from hazards and bringing about a reduction in the occurrence of job related injuries and fatalities. OSET2, Students will investigate the field of Occupational Safety and Health Administration and Environmental Technology, which is charged with the tasks of ensuring that business and industry provide a safe workplace, free from hazards and bringing about a reduction in the occurrence of job related injuries and fatalities.				
<b>Prerequisites:</b>				



# Resources

## Registration Resources

- Academic Planning Presentation - [Video](#)
- Academic Planning Presentation - [PDF](#)
- POS by Endorsement - Campus Designations - [Document](#)
- CTE Dual Credit POS Crosswalk - [Document](#)
- LHS Feeder - Student Course Planner - [Document](#)
- MHS Feeder - Student Course Planner - [Document](#)
- LHS - Academic Guidance Cheat Sheet - [Document](#)
- MHS - Academic Guidance Cheat Sheet - [Document](#)
- College & Career Academy Application - [Form](#)

# Resources

## Useful Websites

[www.achievetexas.org](http://www.achievetexas.org)

[www.act.student.org](http://www.act.student.org)

ACT information and registration

[www.fastweb.com](http://www.fastweb.com)

Scholarship & College search information

[www.collegeboard.com](http://www.collegeboard.com)

College searches, SAT information & registration

[www.scholarships.com](http://www.scholarships.com)

Scholarship information

[www.scholarships360.org](http://www.scholarships360.org)

Scholarship search engine

[www.applytexas.org](http://www.applytexas.org)

The Texas common application website

[www.ed.gov/prog\\_info/SFA/StudentGuide](http://www.ed.gov/prog_info/SFA/StudentGuide)

Comprehensive resource on student financial aid from the U.S. Department of Education

[www.ppslc.com](http://www.ppslc.com)

College planning and financial aid information

[www.collegefortexans.com](http://www.collegefortexans.com)

Information on community and technical colleges, universities and health-related institutions, and grants.

[www.petersons.com](http://www.petersons.com)

Information services to assist in goal setting, the college search, test preparation, and financial aid.

[www.tea.state.tx.us](http://www.tea.state.tx.us)

Texas Education Agency provides State testing programs brochures and info.

[www.midland.edu](http://www.midland.edu) **Midland College**

[www.texascollegeandcareer.org](http://www.texascollegeandcareer.org)

Provides key components of college and career in one centralized location

[www.midlandisd.net/page/377](http://www.midlandisd.net/page/377)

Scholarship booklet with information on scholarships for local students

<http://www.bestcolleges.com/resources/college-planning-with-learning-disabilities/>

College Guide for students with learning disabilities

<https://www.goodcall.com/scholarships/>

Scholarship information