2025-2026
High School Academic Guide and Course Catalog

Educating the Future with Excellence

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

Freshman Campus
1400 East Oak Avenue
Midland, Texas 79705
432.240.2400

MIDLAND HIGH SCHOOL
Main Campus
906 W. Illinois Avenue
Midland, Texas 79701
432.240.3000

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

Stephanie D. Howard, Ed.D.
Office of Superintendent
432-240-1002 | www.midlandisd.net
615 W. Missouri Ave. Midland, Texas 79701

November, 2024

Dear Students and Parents,

Midland ISD is excited to offer an opportunity for parents to become engaged in their children's future by providing you with course offerings for the 2025-2026 school year. MISD has traditionally provided our wide selection of course offerings and opportunities in the core curriculum areas and beyond to meet the needs and interests of every student. These courses have detailed descriptions and allow students to align course selections throughout their high school experience. Through these offerings, students and parents can gain valuable insight and knowledge to help streamline their 4-year plan and preparation for college or a career.

MISD is committed to creating learning environments that prepare students for meaningful post-secondary opportunities, and we are working to engage parents in the grade transition process through flexible scheduling for information sessions and equipping them with valuable knowledge and resources. We want to be a partner with you in guiding your student through this process. Please contact your counselor or campus administrator if you have any further questions or need assistance.

It is an exciting time while our students plan for the 2025-2026 school year. Thank you for choosing Midland ISD!

Sincerely,

Stephanie Howard

Stephanie Howard, Ed.D.
Superintendent, Midland ISD

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 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.

All students will graduate college, career, or military ready.

Midland Independent School District

Notice to Parents/Guardians of Students in Grades 9 and Above Pursuant to EHDD(LEGAL)

Dear Parents/Guardians,

In our ongoing commitment to your child's academic and career success, Midland ISD is pleased to inform you about several key opportunities available to our high school students. These programs are designed to support your child's educational journey and prepare them for future success.

Subsidies for Exam Fees:
Midland ISD offers financial assistance for certain exam fees, including those required for college admissions, Advanced Placement (AP), and industry certification exams. These subsidies are intended to reduce financial barriers and ensure that all students have equitable access to these important assessments.

College Credit Programs:
Through partnerships with accredited institutions, Midland ISD provides opportunities for students to earn college credits while still in high school. These programs are designed to enhance academic achievement and ease the transition to higher education, helping students get a head start on their college journey.

Career and Technology Education (CTE) Programs:
Our district offers a diverse range of CTE programs that equip students with the skills needed for success in high-demand industries. These programs combine rigorous academic coursework with hands-on experience, ensuring students gain both technical expertise and critical thinking skills.

Dual Credit Courses:
Students at Midland ISD can also take advantage of dual credit courses, which allow them to earn both high school and college credits simultaneously. Dual credit courses are available for both college transfer and CTE programs. Students may enroll in dual credit courses at no cost if they:

- Are enrolled in a Midland ISD high school (grades 9-12),
- Are participating in a dual credit course at a partnering institution of higher education, and
- Were educationally disadvantaged at any time during the four school years preceding their enrollment in the dual credit course.

Midland ISD covers tuition for students enrolled in CTE Dual Credit Courses.

Work-Based Education Programs:
In collaboration with local businesses and organizations, Midland ISD offers work-based learning experiences that provide students with real-world skills and insights into various professions. These programs are designed to enhance students' readiness for their future careers.

Details for each of these programs can be found in this document. For more detailed information on eligibility criteria, enrollment processes, and available subsidies, please contact your school counselor.

Thank you for your continued partnership in your child's educational journey.

Midland Independent School District

MISSION STATEMENT

All students will graduate college, career, or military ready.

DISTRICT GOALS

1. The percentage of 3rd grade students who score Meets Grade Level Performance or above on the Reading Language Arts STAAR assessment will increase from 41% to 55% by 2028.
2. The percentage of 3rd grade students who score Meets Grade Level Performance or above on the Math STAAR assessment will increase from 38% to 50% by 2028.
3. The percentage of 4th-English II students who meet or exceed their Reading Language Arts STAAR Annual Growth will increase from 55% to 71% by 2028..
4. The percentage of 4th-Algebra I students who meet or exceed their Math STAAR Annual Growth will increase from 61% to 71% by 2028.
5. The percentage of the graduating class meeting one or more CCMR indicators will increase from 54% (class of 2022) to 83% by 2028.

STRATEGIC PLAN

The purpose of the Strategic Plan is to improve educational outcomes and meet the needs of our students, staff, and community. This plan places strong emphasis on student achievement, professional growth, effective communication, and community engagement

- In Student Experience, we foster safe and innovative learning spaces, empowering students for post-graduate success.
- With Grow & Develop Staff, our retention and recruitment practices promote professional growth that yields and rewards high-impact staff, improving student outcomes.
- Engage & Act underscores our commitment to engage the entire Midland community through clear and actionable communication that cultivates trust and partnership.

Table of Contents

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 Practicum courses 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 that Impact Grade Point Average (GPA)

Students who satisfactorily complete Spanish I, II, or GT/PreAP Algebra I or GT/PreAP Geometry 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. 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.

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	1 credit only

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* (*through participation in the extracurricular activity of marching band) may be awarded one P.E. credit toward graduation that may satisfy the physical education credit requirement.

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 Midland 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 & the University of Texas at Austin 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 T&L Coordinator for 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

For students in the graduating class of 2026, the District 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.

Beginning with students in the graduating class of 2027, the District shall include in the calculation of class rank semester grades earned in high school credit courses taken at any grade level, except as excluded in this policy, and only as noted in the following subjects:

1. First four credits in English (8 semester grades): English I, English II, English III, and an authorized advanced English course;
2. First four credits in mathematics (8 semester grades): Algebra I, Geometry, and two authorized math courses;
3. First four credits in science (8 semester grades): Biology; at least one credit in IPC, Chemistry, or Physics; and the remaining credit(s) in any authorized advanced science course;
4. Up to four and one-half credits in social studies (9 semester grades): World Geography or Advanced Placement (AP) Human Geography and/or World History, U.S. History, one-half credit in Government, and one-half credit in Economics or Personal Financial Literacy and Economics. A student shall not be required to take World History unless it is a requirement of the graduation program endorsement; however, if World History is taken it shall be included in the class rank calculation. If a student takes both AP Microeconomics and AP Macroeconomics, grade points for both courses shall be included in the class rank calculation; and
5. First two credits (4 semester grades) in languages other than English (LOTE) from the first time the Level I course and the Level II course were taken.

The class rank calculation shall not include semester grades from a course that is retaken after a passing grade has been earned, and the new grade shall not be recorded on the transcript.

The District shall include in the calculation any failing semester grades, as well as semester grades in eligible courses for which the credit was denied by an attendance committee; however, grades not resulting in credit shall be converted to zero grade points.

Exclusions

For all students, the calculation of class rank shall exclude grades earned for courses taken for local credit or for credit recovery.

Weighted Grade System

Categories

MISD shall categorize and weight courses as Enhanced and Core, in accordance with provisions of policy EIC(LOCAL).

Enhanced Courses

For students in the graduating class of 2026, eligible AP courses, Honors courses, dual credit courses, gifted/talented courses, and courses locally designated as honors shall be categorized and weighted as Enhanced courses.

Beginning with students in the graduating class of 2027, eligible AP courses, Honors courses, dual credit courses, gifted/talented courses, and courses locally designated as honors shall be categorized and weighted as Enhanced courses.

Core Courses

All other eligible courses shall be designated in the course register to be weighted as Core courses.

High Quality Grade Point

Beginning with students in the graduating class of 2027, AP Exam High Quality grade points shall be awarded for the courses calculated into GPA upon receipt of the District's annual AP Score Report. In calculating class rank, the District shall include the AP Exam High Quality points received prior to the calculation for local graduation honors stated below. AP Exam High Quality points subsequently received shall be included in calculations on the final official transcript.

AP Exam High Quality points shall only be awarded for designated courses that are calculated into GPA, as listed above in the section on Calculation.

AP Exam Score	Grade point to be added
5	.5
4	.4
3	.3
2	0
1	0

Determining Grade Point Average

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 is 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 1, 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.
TOTAL CREDITS	**26**

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	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:
	• 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;
	  ○ 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
	  ○ 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
	  ○ demonstrated proficiency in one or more languages other than English through one of the following methods:
	  ■ score of 3 or higher on a College Board Advanced Placement exam for a language other than English, or
	  ■ score of 4 or higher on an International Baccalaureate Exam (IB) for a higher-level language other than English courses, or
	  ■ performance on a national assessment of language proficiency in a language other than English of at least Intermediate High or its equivalent.
	• 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).

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	• 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 • achieving the college readiness benchmark score on at least two of the four subject tests on the ACT PLAN exam; or • a combined critical reading and mathematics score of at least 1250 on the SAT; or • a composite score on the ACT exam (without writing) of 28.
Business or Industry Certification or License	• performance on an examination or series of examinations sufficient to obtain a nationally or internationally recognized business or industry certification; or • performance on an examination sufficient to obtain a government–required credential to practice a profession.

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 Credits: 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.
TOTAL CREDITS	**22**

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	Algebra I	Biology	English II	US History
9th Grade	8th/9th Grade	9th/10th Grade	10th Grade	11th 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.

<table>
<tr><th colspan="2">English</th></tr>
<tr><td colspan="2">• English IV</td></tr>
<tr><th colspan="2">Mathematics</th></tr>
<tr><td>• Algebra II or Pre-AP Algebra II
• AP Calculus AB
• AP Calculus BC
• AP Computer Science
• AP Statistics
• Calculus
• Independent Study in Math
• Mathematical Models with Applications**
• Pre-calculus or AP Pre-calculus</td><td>• Robotics II (CTE)
• Algebraic Reasoning
• Financial Mathematics (CTE)
• Engineering Mathematics
• Discrete Mathematics for Problem Solving
• Advanced Quantitative Reasoning
• Accounting II (CTE)</td></tr>
<tr><th colspan="2">Science</th></tr>
<tr><td>• Anatomy & Physiology (CTE)
• AP Biology
• AP Chemistry
• AP Environmental Science
• AP Physics I: Algebra-Based
• AP Physics II: Algebra-Based
• Chemistry or Pre-AP Chemistry
• Environmental Systems
• Earth Systems</td><td>• Advanced Animal Science (CTE)
• Food Science (CTE)
• Forensic Science (CTE)
• Scientific Research and Design (CTE)
• Engineering Design/Problem Solving (CTE)
• Physics
• AP Physics C: Mechanics
• AP Physics C: Electricity and Magnetism
• Astronomy</td></tr>
</table>

*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 Programs of Study Info Sheets

Approved Advanced Level Courses

Advanced Career and Technical Education 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 and options toward future careers. Students are considered program of study completers when they successfully complete three or more courses for four or more credits including an advanced course (level 3 or level 4) within a TEA approved program of study.

CTE Level 3 Courses	CTE Level 4 Courses
• Accounting II • Advanced Culinary Arts • Anatomy and Physiology • AP Computer Science A • Audio/Video Production II Lab • Automotive Technology I • Business Management • Commercial Photography II • Correctional Services • Cosmetology I • Diesel Equipment Technology II • Emergency Medical Technician-Basic • Engineering Design and Presentation I • Firefighter I • Floral Design • Graphic Design and Illustration II Lab • Health Informatics • Health Science Theory/Clinical • Healthcare Administration and Management • Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II • Instructional Practices • Introduction to Event and Meeting Planning • Law Enforcement II • Livestock Production • Networking • Oil and Gas Production III • Paint and Refinishing • Robotics II • Welding II	• Advanced Animal Science • Advanced Floral Design • Automotive Technology II • Career Preparation for Programs of Study and Extend Career Prep • Career Preparation General and Extended • Cosmetology II • Cybersecurity Capstone • Engineering Design and Presentation II • Engineering Design and Problem Solving • Firefighter II • Forensic Science • Medical Billing and Coding • Oil and Gas Production IV • Pathophysiology • Pharmacology • Practicum in Audio/Video Production • Practicum in Commercial Photography • Practicum in Culinary Arts • Practicum in Education and Training • Practicum in Graphic Design and Illustration • Practicum in Health Science • Scientific Research and Design • Statistics and Business Decision Making • Veterinary Medical Applications • World Health and Emerging Technologies

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

Advanced Placement Courses

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 the Advanced Academics Department 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, PreAP 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
• PreAP English I • PreAP English II • AP English Language and Composition • AP English Literature and Composition	• PreAP Algebra I • PreAP Geometry • PreAP Algebra II • AP Precalculus • AP Calculus AB • AP Calculus BC • AP Statistics • AP Computer Science A	• Pre AP Biology • PreAP Chemistry • AP Biology • AP Chemistry • AP Physics 1: Alg. Based • AP Physics 2: Alg. Based • AP Physics C • AP Environmental Science
Fine Arts	**Social Studies**	**Languages other than English**
• AP Music Theory • AP 2D Design Portfolio • AP 3D Design Portfolio • AP Art/Drawing Portfolio • AP Art/Drawing Portfolio	• AP Human Geography • AP World History • AP US History • AP Macroeconomics • AP Microeconomics • AP US Govt.and Politics • AP European History • AP Psychology	• Honors Spanish III • AP Spanish Language and Culture • AP Spanish Lit and Culture • Honors French III • AP French Language and Culture • Honors German III • AP German Language and Culture • Honors Latin III • AP Latin

For additional information, see your counselor and visit 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.

Students 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 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.

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 Academic Dual Credit Course Offerings
Courses may be Subject to Change Pending Course Requests & Staff Availability

MISD Course	Fall	LHS	MHS	Spring	LHS	MHS
AP English Lang. & Comp	ENGL 1301 English Composition I	✓	✓	ENGL 1302 English Composition II	✓	✓
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 130I US History II	✓	✓
AP Precalculus	MATH 1314 College Algebra	✓	✓	MATH 2412 PreCalculus	✓	✓
AP Calculus BC	MATH 2413 Calculus I	✓	✓	MATH 2414 Calculus II	✓	✓
Spanish III Honors	SPAN 1411 Beginning Spanish I	✓	✓	SPAN 1412 Beginning Spanish II	✓	✓
Anatomy & Physiology	BIOL 2404	✓	✓	Anatomy & Physiology	✓	✓
Art Appreciation	ART 1304	✓	✓			
AP Macro/Microeconomics	ECON2031	✓	✓	ECON2302	✓	✓

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 Application (Local Application preferred or Apply Texas)
2. Complete the TSI Test
3. Parent/Student Agreement Form
4. Pay Your Tuition (not applicable for courses in CTE Dual Credit)

January	February
• Attend dual credit registration meeting at your high school! • Complete the Contact Info Form • Complete the Online Dual Credit Parent/Student Agreement Form	• Discuss next steps with your counselor at your Graduation Plan Verification Meeting. • Complete the Local Application for Dual Enrollment.
March	**April**
• Test Scores and Meningitis documentation will be submitted by high school to MC. • Please see test schedule insert for testing schedule.	• Course list is mailed to students. • TSI testing April LHS/MHS campuses.
May - August	
After you receive your high school schedule, enroll in college courses at MC. • Any course taken on campus at MC (Main Campus, Cogdell, or ATC) requires proof of a a current Meningitis Vaccination. *These courses are generally CTE Dual Credit.*	

Dual Credit - Career and Technical Education

Midland ISD offers a robust Career and Technical Education (CTE) program for students through twenty-seven Programs of Study that include fourteen dual credit opportunities that lead to college certifications.

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 MISD CTE website for more information on the College and Career Academies Application and Selection Process.

Check out 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

Midland College - 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.

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.

Midland ISD Community Scholars Recognition

Midland Scholars

The Midland Community Scholars 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 subjects of English, Math, Science, Social Studies and Foreign Language, and a 3.5 grade point average on a 5.0 scale in the fall semester of their 9th grade year for English, Math, Science, Social Studies, and the first two years of Foreign Language courses only.

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 in the following courses, English, Math, Science, Social Studies and the first two years of Foreign Language. 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

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

10th Grade

English	Mathematics		Science		Social Studies
ELA200- English II ELA201- Pre-AP English II ELA202- Pre-AP English II G	MAT200- Geometry MAT201- Pre-AP Geometry MAT202- Pre-AP Geometry G	MAT400- Algebra II MAT401 - Pre-AP Algebra II MAT402- Pre-AP Algebra II G	SCI100- IPC SCI200- Biology	SCI300- Chemistry SCI301- Pre-AP Chemistry SCI302- Pre-AP Chemistry G	SST200- World History SST201- AP World History SST202- AP World History G

11th Grade

English	Mathematics		Science		Social Studies
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- PreAP Algebra II MAT402- PreAP Algebra II G	MAT440- Pre-Calculus MAT445- AP Pre-Calculus MAT446- AP Pre-Calculus D MAT447 -AP Pre-Calculus G MAT448-AP Pre-Calculus G D MAT510- AP Stats MAT511- AP Stats G	SCI300- Chemistry SCI301- Pre-AP Chem SCI302- Pre-AP Chem G SCI310- Physics I SCI312- AP Physics I G	SCI311- AP Physics I SCI402- Earth Systems 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

English	Mathematics		Science		Social Studies
ELA400- English IV ELA401- English IV D ELA402- AP Eng Lit & Comp ELA403- AP Eng Lit & Comp D ELA404-AP Eng Lit & Comp G ELA405- AP Eng Lit & Comp GD ELA500- College Prep ELA	MAT440- Pre-Calculus MAT445-AP Pre-Calculus MAT446- AP Pre-Calculus D MAT447- AP Pre-Calculus G MAT448 AP Pre-Calculus GD MAT500- AP Calculus AB MAT501- AP Calculus AB D MAT502-AP Calculus AB G MAT503- AP Calculus AB GD MAT505- AP Calculus BC MAT506- AP Calculus BC D MAT507- AP Calculus BC G	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 MAT511- AP Stats G	SCI303-AP Chemistry SCI304- AP Chemistry G SCI310- Physics I SCI312- AP Physics I G SCI311- AP Physics I SCI402- Earth Systems SCI410- Adv. Animal Science SCI411- Forensic Science SCI400- Enviro. Systems	SCI407- Anatomy & Phys. SCI408- Anatomy & Phys. H SCI409- Anatomy & Phys. G SCI415 Anatomy & Phys D SCI416 Anatomy & Phy GD SCI417 Anatomy & Phy HD SCI203- AP Biology SCI205- AP Biology G SCI403- AP Envir. Science SCI405- AP Envir. Science G	SST400 - Government (0.5) SST401- AP Government SST402- AP Government D SST403- AP Government G SST404- AP Government G D SST410- 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 SST510- Personal Fin Literacy & Economics

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	FRIN301- French III Honors	FRN401- AP French IV
GER100- German I	GER200- German II	GER301- German III Honors	GER401- AP German IV
SPA100- Spanish I	SPA200- Spanish II	SPA301- Spanish III Honors SPA302- Spanish III Honors D	SPA401- AP Spanish Lang SPA402- AP Spanish Lang D 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	PED101 Lifetime Recreation
BAS100 - Baseball I	BAS200 - Baseball II	BAS300- Baseball III	BAS400 - Baseball IV	PED102 -Lifetime Fitness
BSK100 - Basketball I (Boys)	BSK200 - Basketball II (Boys)	BSK300 - Basketball III (Boys)	BSK400 - Basketball IV (Boys)	PED103 Skill Based Fitness
BSK110 - Basketball I (Girls)	BSK210 - Basketball II (Girls)	BSK310 - Basketball III (Girls)	BSK410 - Basketball IV (Girls)	PED104 Health I
XCC100 - Cross Country I	XCC200 - Cross Country II	XCC300 - Cross Country III	XCC400 - Cross Country IV	PED105 Health II
DIV100- Diving I	DIV200- Diving II	DIV300- Diving III	DIV400 - Diving IV	PED106 Team Sports Officiating
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)	PED120 - Marching Band I
POW100- Powerlifting I	POW200- Powerlifting II	POW300- Powerlifting III	POW400- Powerlifting IV	PED220 - Marching Band II
SOF110 - Softball I	SOF210 - Softball II	SOF310 - Softball III	SOF410 - Softball IV	PED130- ROTC (PE)
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-Career and Technical Education

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 for Career and Technical Education (CTE). Each Program of Study includes a coherent sequences of courses that leads to an endorsement. Programs of Study offer opportunities for students to earn industry based certifications and participate in work-based learning courses to ensure students are college and career ready upon graduation. Dual credit Programs of Study allow students to earn a Level 1 certification through Midland College with no cost for tuition, books or fees. At MISD, our goal is to ensure that students are equipped for success upon graduation and the CTE Programs of Study offered support that initiative.

MISD MC
COLLEGE & CAREER ACADEMIES

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

Architecture and Construction Programs of Study

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

Cluster	Program of Study	Course Pathways				Potential Certifications
	STANDARD	9th Grade	10th Grade	11th Grade	12th Grade	
Architecture and Construction	HVAC - Heating, Ventilation Air Conditioning	N/A	N/A	Principles of Construction (1) - D AND HVAC 1 (1) - D	HVAC 2 (2) - D	Level 1 - MC HVAC Technician - Entry Level
Business & Industry Endorsement	The completion of any of the Architecture and Construction 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.					

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	12th Grade	
Agriculture, Food, and Natural Resources	Animal Science - Adv. Animal Science	Principles of Agriculture, Food, & Nat. Resource (1)	Livestock Product. (1) (10th or 11th grade)	Vet Med Applications (1) (11th or 12th grade)	Adv. Animal Science (1) (11th or 12th grade)	ELANCO Fundamentals of Animal Science
	Plant Science	NA	Greenhouse Operation and Production (1) 10th or 11th	Landscape Design and Management (.5) & Turf Grass Management (.5) 10th or 11th Floral Design (1) 10th or 11th	Advanced Floral Design (1) 11th or 12th	Texas Florist's Association Knowledge Based Floral Certification
Business & Industry Endorsement	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.					

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
Arts, Audio, Video, & Technology Comm.	STANDARD	9th Grade	10th Grade	11th Grade	12th Grade	
	Graphic Design & Interactive Media - Graphic Design	Principles of Arts, A/V Tech, & Comm. (1)	Graphic Design & Illustration I (1) **(10th or 11th grade)**	Graphic Design & Illustration II Lab (2) **(11th or 12th grade)**	Practicum in Graphic Design or Career Prep I (2) or Ext. for Program of Study (3) - **Optional**	Adobe Certified Associate Certifications
	Commercial Photography- Graphic Design & Interactive Media	Principles of Arts, A/V Tech, & Comm. (1)	Commercial Photography I (1)	Commercial Photography II (1)	Practicum in Commercial Photography (2) **(12th grade)** or Graphic Design & Illustration I (1) **(0th - 12th grade)**	Adobe Certified Associate Certifications
	Digital Communications - AV Production	Principles of Arts, A/V Tech, & Comm. (1)	Audio/Video Production I (1) **(10th or 11th grade)**	Audio/Video Production II Lab (2) **(11th or 12th grade)**	Practicum in AV Production or Career Prep I (2) or Ext. for Program of Study (3) - **Optional**	Adobe Certified Associate Certifications
Business & Industry Endorsement		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
Business, Marketing, and Finance	STANDARD	9th Grade	10th Grade	11th Grade	12th Grade	
	Accounting & Financial Services	Business Info Management I (1)	Accounting I (1)	Accounting II (1)	Financial Math (1) **(11th or 12th grade)**	Quickbooks Certified User
	Business Management	Business Info Management I (1)	Business Info Management II - (1)	Business Mgt (1)	Stats and Business Decision Making (1)	Microsoft Office Expert
	DUAL	9th Grade	10th Grade	11th Grade	12th Grade	
	Business Management	Business Info Management I (1)	Business Info Management II (1) D	Prin. Bus., Marketing. Fin (1) - D AND Business Mgt (1) - D	Stats and Business Decision Making - D	Level I- Business Management Foundations Microsoft Office Expert
Business & Industry Endorsement		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

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
	STANDARD	9th Grade	10th Grade	11th Grade	12th Grade	
Education and Training	Teaching & Training	Prin. of Education & Training (1)	Child Development (1) **(10th or 11th grade) Dual or Non-Dual**	Instruct. Practices (2) **(11th or 12th grade) Dual or Non-Dual**	Practicum in Education & Training (2) **(OPTIONAL - 12th) Dual or Non-Dual**	Educational Aide 1
Public Service Endorsement	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.					

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
	DUAL	9th Grade	10th Grade	11th Grade	12th Grade	
Energy	Oil and Gas Production and Exploration	NA	Occupational Safety and Environmental Tech I - D (1)	Oil & Gas I - D (1) Oil & Gas II - D (1)	Oil & Gas III - D (1) Oil & Gas IV - D (1)	Level 1 MC Energy Tech NCCER-Core
Business & Industry Endorsement	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.					

Engineering Programs of Study

Cluster	Program of Study	Course Pathways				Potential Certifications
	STANDARD	9th Grade	10th Grade	11th Grade	12th Grade	
ENGINEERING	Engineering Foundations	Principles of App Engineering (1)	Engineering Design/Present. I (1) **(10th or IIth)**	Engineering Design/Present. II (2) **11th or 12th**	If courses completed in 9th through 11th, program of study is complete.	Engineering Technology Foundations
	Computer Aided Design (CAD)	(Optional) Principles of Applied Engineering (1)	NA	Manufacturing Engineering Tech. (1) D Eng. Design & Problem Solv. (1)D	Engineering Design/Present. II (2)D	Computer Aided Drafting Technician- Entry Level
Business & Industry Endorsement	The completion of any of the Engineering 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					

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
Health Science	DUAL	9th Grade	10th Grade	11th Grade	12th Grade	
	Biomedical Science	Prin of Health Sci. - D	Medical Term. - D (1)	Anatomy and Physiology - D (1)	Bio Scientific Research/ Design 1 - D (1) and Bio Scientific Research/ Design II - D (1)	
	Health Informatics - Health Data Coordinator	Prin of Health Sci. - D	Medical Term. - D (1)	Health Informatics - D (1) and Healthcare Administration and Management - D (1)	World Health/Emerging Technologies - D (1) and Medical Billing/Coding - D (1)	Health Data Coordinator
	Diagnostic & Therapeutic Services- Medical Assistant	Prin of Health Sci. - D	Medical Term. - D (1)	Health Sci. Theory Medical Assistant - D (2)	Practicum in Health Science Medical Assistant - D (2)	Medical Assistant
	Diagnostic & Therapeutic Services- Patient Care Technician	Prin of Health Sci. - D	Medical Term. - D (1)	Health Sci. Theory - D (2) - Nurse Aide	Practicum in Health Science PCT D (2)	Nurse Aide Patient Care Tech EKG/ECG Tech Phlebotomy Tech
	Diagnostic & Therapeutic Services - Pharmacy Technician	Prin of Health Sci. - D	Medical Term. - D (1)	Pathophysiology Pharmacology	Practicum in Health Science PHT D (2)	Pharmacy Technician
	Diagnostic & Therapeutic Services - Sterile Processing	Prin of Health Sci. - D	Medical Term. - D (1)	Health Sci. Theory Sterile Processing - D (2)	Practicum in Health Science Sterile Processing - D (2)	Sterile Processing Tech
Public Service Endorsement	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.					

Hospitality and Tourism 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
	STANDARD	9th Grade	10th Grade	11th Grade	12th Grade	
Hospitality and Tourism	Lodging and Resort Management	Principles of Hospitality & Tourism (1)	Travel and Tourism Mgt (1) 10th or 11th	Business Management 10th, 11th or 12th	Introduction to Event and Meeting Planning 11th or 12th OR Career Prep I (2) or Ext (3)	Certified Hospitality & Tourism Management Professional
	Culinary Arts	Principles of Hospitality & Tourism (1) optional	Introduction to Culinary Arts (1)	Culinary Arts	Adv. Culinary Arts (2)	ServSafe Manager; Cert. Fundamentals Cook
Business & Industry Endorsement	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.					

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
	STANDARD	9th Grade	10th Grade	11th Grade	12th Grade	
	Cosmetology and Personal Services	N/A	Intro to Cosmetology (1)	Cosmetology I (2)	Cosmetology II (2)	Cosmetology Operator License
Public Service Endorsement	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.					

Information Technology Programs of Study

Cluster	Program of Study	Course Pathways				Potential Certifications
	STANDARD	9th Grade	10th Grade	11th Grade	12th Grade	
Information Technology	Cybersecurity	N/A	Optional Electives 10th-12th AP Comp Science Principles and/or AP Comp Science A	Principles of IT (1) - D AND Networking (1) D	Computer Maintenance (1) D AND Cybersecurity Capstone (1) D	CompTIA Network+
Business & Industry Endorsement	The completion of any of the Architecture and Construction 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

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	12th Grade	
JROTC	JROTC	ROTC I	ROTC II	ROTC III	ROTC IV or Aviation Ground School	
Public Service Endorsement	The completion of the ROTC Program of Study (POS) will result in a Public Service graduation endorsement.					

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	12th Grade	
Law and Public Service	Firefighter	N/A	N/A	Firefighter I (2) - D Disaster Response (1) - D	Firefighter II (3) - D	Basic Structure Fire Protection Certification
	Law Enforcement	N/A	N/A	Prin. of Law PSC(1) AND Law Enforcement I (1) - D	Law Enforcement II (1) D AND Correctional Services (1) - D	
	EMT			Anatomy and Physiology (1) - Dual or Non-Dual	Disaster Response-EMT D and EMT Basic D	EMT Basic Level 1 National Registry EMT-Basic
Public Service Endorsement	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.					

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	
	Robotics and Automation Technology	Prin. Applied Engineering (1)	Engineering Design and Presentation I (1)	Robotics I (1)	Robotics II (1)	
	DUAL	9th Grade	10th Grade	11th Grade	12th Grade	
	Welding	N/A	Intro to Welding	Welding I (D) (2)	Welding II (D) (2)	Level I MC Welding Tech
Business & Industry Endorsement		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. *Robotics is the STEM endorsement if the math and science requirements are met.				

Transportation, Distribution, and Logistics 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
Transportation	DUAL	9th Grade	10th Grade	11th Grade	12th Grade	
	Automotive - Auto Tech	N/A	Occup. Safety /Enviro Tech I - D (1)	Auto Tech I (2) - D	Auto Tech II (2) - D	NCCER Core
	Automotive - Paint & Body	N/A	Occup. Safety /Enviro Tech I - D (1)	Auto Paint & Body (2) - D	Paint & Refinish (2) - D	NCCER Core
	Diesel & Heavy Equipment	N/A	Occup. Safety /Enviro Tech I - D (1)	Diesel Equipment Technology I (2) - D	Diesel Equipment Technology II (2) - D	NCCER Core
Business & Industry Endorsement		he 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.				

High Demand Programs: Many career and technical education programs of study are in high demand, and often the number of applicants exceeds the number of available seats. In these instances, additional admission processes for selection and entry into the program exist. These programs include:

- Health Sciences (Patient Care Tech and Pharmacy Tech)
- Industry (Diesel, Automotive Tech, Automotive Paint and Body, and Welding)
- Cosmetology

In addition to these high demand programs, all dual credit programs lead to Level I college certificates and entry may be competitive.

Options under the Arts & Humanities 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
Arts & Humanities Endorsement		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	Honors French III	AP French IV
	German	German I	German II	Honors German II	AP German IV
	Latin	Latin I	Latin II	Honors Latin III	AP Latin IV
	Spanish	Spanish I	Spanish II	Honors Spanish III Honors Spanish III D	AP Spanish IV AP Spanish IV D AP Spanish V AP Spanish VI
Arts & Humanities Endorsement		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 AP Human Geog AP Human Geog G	World History AP World History AP World History G	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 Per. Financial Literacy & Eco
Arts & Humanities Endorsement		5 courses for 5 credits in no particular sequence.			

Options under the Multidisciplinary Endorsement

Career and Technical Education Advanced Courses

Cluster	Program of Study	Course Pathways			
CTE Advanced Courses	CTE Advanced Courses 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
Multidisciplinary Endorsement		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
Multidisciplinary Endorsement		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:
Multidisciplinary Endorsement		Four credits in AP, IB, or dual credit courses selected from English, mathematics, science, social studies, economics, LOTE or fine arts,			

Core and Required Course Descriptions

English Language Arts

English I

MISD #: ELA100 **Course Code:** 03220100 **Credits:** 1 **Grade Level:** 9-12

English I emphasizes the development of literacy and communication through the study of various genres, including fiction, non-fiction, poetry, and drama. Writing instruction focuses on crafting clear and coherent essays, developing arguments, and mastering the writing process. The course prepares students for success in future English courses and state assessments, such as the STAAR End-of-Course exam.

Prerequisites: none

Pre-AP English I

MISD #: ELA101 **Course Code:** 03220100 **Credits:** 1 **Grade Level:** 9-12

Pre-AP English I is designed to challenge students with a rigorous curriculum which focuses on deeper literary analysis, advanced writing techniques, and more complex texts across multiple genres, including classic and contemporary works. The course is designed to prepare students for the demands of advanced high school English courses, including AP English courses, and aims to build the skills necessary for success on the STAAR End-of-Course exam and AP exams.

Prerequisites: District required summer reading with assignment

English II

MISD #: ELA200 **Course Code:** 03220200 **Credits:** 1 **Grade Level:** 10-12

English II builds upon the skills introduced in English I, and focuses on refining students' ability to analyze and interpret increasingly complex texts from a variety of genres. Students will explore global themes, diverse perspectives, and literary techniques, deepening their understanding of character development, symbolism, and theme. In writing, students will work on developing clear, well-supported essays, with a focus on expository, argumentative, and analytical thinking. The course prepares students for the STAAR End-of-Course exam and lays the foundation for future English courses.

Prerequisites: English I

Pre-AP English II

MISD #: ELA201 **Course Code:** 03220200 **Credits:** 1 **Grade Level:** 10-12

Pre-AP English II is designed to further challenge students over skills acquired in Pre-AP English I. Students will engage in deeper exploration of literary elements such as symbolism, tone, theme, and character development, with an emphasis on understanding diverse cultural contexts and historical backgrounds. Writing instruction emphasizes crafting sophisticated, well organized essays, with a focus on expository, argumentative, and analytical writing. The course is designed to prepare students for the demands of AP English courses, and aims to build the skills necessary for success on the STAAR End-of-Course exam and AP exams.

Prerequisites: English I and district required summer reading with assignment

English III

MISD #: ELA300 **Course Code:** 03220300 **Credits:** 1 **Grade Level:** 11-12

English III is a junior-level course which places a strong emphasis on American Literature, exploring classic and contemporary works that reflect the diverse voices and experiences of the United States. Students will engage in the coles reading of novels, essays, poetry, and plays to deepen their understanding of literary analysis, rhetorical techniques, and thematic connections across texts. In addition to literature, students will continue to refine their composition skills through expository, argumentative, and analytical writing. Research and presentation projects will encourage students to investigate real-world issues. This course prepares students for future English courses and to be college and career ready

Prerequisites: English I and English II

AP English Language & Composition

MISD #:	ELA302	Course Code:	A3220100	Credits:	1	Grade Level:	11-12

The Advanced Placement Language and Composition course focuses on the development and revision of evidence-based analytic and argumentative writing, the rhetorical analysis on nonfiction texts, and the decisions writers make as they compose and revise. Students evaluate, synthesize, and cite research to support their arguments. Additionally, they read and analyze rhetorical elements and their effects in nonfiction texts from a range of disciplines and historical periods. This course prepares students for future AP English courses and success on the AP exam.

Prerequisites: English I, English II, and district required summer reading

English IV

MISD #:	ELA400	Course Code:	03220400	Credits:	1	Grade Level:	12

English IV is a senior-level course focused on refining students' skill in critical reading, writing, and communication in preparation for college and career readiness. This course emphasizes British and world literature, exploring works from various periods and genres, including novels, poetry, essays, and plays. Writing assignments will focus on expository, analytical, and argumentative essays, with an emphasis on constructing well-supported arguments, conducting advanced research, and synthesizing information from multiple sources. As a culmination of their high school English studies, English IV prepares students for the demands of post-secondary education by developing advanced writing skills, critical thinking, and a global perspective on literature and the human experience.

Prerequisites: English I, English II and English III

AP English Literature & Composition

MISD #:	ELA402	Course Code:	A3220200	Credits:	1	Grade Level:	12

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

Prerequisites: English I, English II, English III, and district required reading with assignment

ESOL I and II							
MISD #:	ELL100/200	**Course Code:**	03200600/700	**Credits:**	1	**Grade Level:**	10-12
Students with Other Languages (SOL) is intensive English language instruction by teachers trained in recognizing and working with diverse language learners. Instruction for emergent bilingual students considers the students' learning experiences and cultural backgrounds. The course develops mastery of the English language in the cognitive, affective and linguistic domains. ESOL 1 and ESOL 2 receive equivalent credit in English I&II.							
Prerequisites: Placement will be determined by state and local criteria.							

Creative Writing							
MISD #:	ELA501	**Course Code:**	03221200	**Credits:**	1	**Grade Level:**	10-12
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.							
Prerequisites: none							

English Language Arts Cont'd

MISD #:	ELA506	**Course Code:**	03240600	**Credits:**	1	**Grade Level:**	10-12

Debate 1 introduces students to the fundamentals of argumentation, public speaking, and critical thinking. In this course, students will learn how to construct, present, and defend logical arguments on various contemporary issues. Through practice in different debate formats, students will develop research skills, enhance their ability to think on their feet, and refine their public speaking techniques.

Prerequisites: Interview

Debate II

MISD #:	ELA507	**Course Code:**	03240700	**Credits:**	1	**Grade Level:**	11-12

Debate 2 is designed for students who wish to deepen their skills in argumentation, research, and public speaking. This course focuses on advanced techniques in debate strategy, cross-examination, and rebuttals, with an emphasis on more complex topics and higher-level critical thinking. Students will explore various debate formats in greater depth, while honing their ability to analyze issues from multiple perspectives and respond to opposing viewpoints effectively.

Prerequisites: Completion of Debate I with an average of 80 or above.

Debate III

MISD #:	ELA508	**Course Code:**	03240800	**Credits:**	1	**Grade Level:**	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.

Prerequisites: Completion of Debate II with an average of 80 or above.

Yearbook I and II

MISD #:	ELA503/504	**Course Code:**	03230110/20	**Credits:**	1	**Grade Level:**	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.

Prerequisites: Application and approval

Mathematics

Algebra I

MISD #:	MAT100	**Course Code:**	03100500	**Credits:**	1	**Grade Level:**	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.

Prerequisites: 8th Grade Math

Pre-AP Algebra I					
MISD #:	MAT101	**Course Code:**	03100500	**Credits:** 1	**Grade Level:** 9
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.					
Prerequisites: 8th Grade Math					

Geometry					
MISD #:	MAT200	**Course Code:**	03100700	**Credits:** 1	**Grade Level:** 10
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.					
Prerequisites: Algebra I					

Pre-AP Geometry					
MISD #:	MAT201	**Course Code:**	03100700	**Credits:** 1	**Grade Level:** 9-10
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.					
Prerequisites: Algebra I					

Mathematical Models With Applications					
MISD #:	MAT300	**Course Code:**	03102400	**Credits:** 1	**Grade Level:** 11-12
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.					
Prerequisites: Algebra I; Geometry Recommended					

Algebra II					
MISD #:	MAT400	**Course Code:**	03100600	**Credits:** 1	**Grade Level:** 10-12
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.					
Prerequisites: Algebra I, Geometry					

Pre-AP Algebra II							
MISD #:	MAT401	**Course Code:**	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	**Course Code:**	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							

AP Pre-Calculus							
MISD #:	MAT445	**Course Code:**	A3100100	**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							

AP Pre-Calculus/Dual							
MISD #:	MAT446/447	**Course Code:**	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	**Course Code:**	A3100101	**Credits:**	1	**Grade Level:**	11-12
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							
MISD #:	MAT505	**Course Code:**	A3100102	**Credits:**	1	**Grade Level:**	12
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.							
Prerequisites: Algebra I, Geometry, Algebra II and Pre-Calculus							

AP Calculus BC/Dual							
MISD #:	MAT506	**Course Code:**	A3100102	**Credits:**	1	**Grade Level:**	12
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.							
Prerequisites: Algebra I, Geometry, Algebra II and Pre-Calculus							

AP Computer Science A							
MISD #:	MAT515	**Course Code:**	A3580110	**Credits:**	1	**Grade Level:**	11-12
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.							
Prerequisites: Algebra II							

Advanced Quantitative Reasoning							
MISD #:	MAT420	**Course Code:**	03102510	**Credits:**	1	**Grade Level:**	12
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.							
Prerequisites: Algebra II							

Algebraic Reasoning							
MISD #:	MAT410	**Course Code:**	03102540	**Credits:**	1	**Grade Level:**	11-12
This course will build upon the knowledge and skills for math from Kindergarten through Algebra 1 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.							
Prerequisites: Algebra I, Algebra II Recommended							

Financial Mathematics

MISD #: MAT310 **Course Code:** 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 **Course Code:** 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 **Course Code:** 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 **Course Code:** 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

Robotics II

MISD #: MAT330 **Course Code:** 13037050 **Credits:** 1 **Grade Level:** 11-12

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.

Prerequisites: Robotics I

Science

Integrated Physics and Chemistry (IPC)

MISD #: SCI100 **Course Code:** 03060201 **Credits:** 1 **Grade Level:** 9-12

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, periodic table, nuclear and chemical reactions.

Prerequisites: none

Biology

MISD #: SCI200 **Course Code:** 03010200 **Credits:** 1 **Grade Level:** 9-10

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.

Prerequisites: none

Pre-AP Biology

MISD #: SCI201 **Course Code:** 03010200 **Credits:** 1 **Grade Level:** 9

In PreAP 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.

Prerequisites: none

Chemistry

MISD #: SCI300 **Course Code:** 03040000 **Credits:** 1 **Grade Level:** 10-12

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.

Prerequisites: Algebra I and 1 High School Science

Pre-AP Chemistry							
MISD #:	SCI301	**Course Code:**	03040000	**Credits:**	1	**Grade Level:**	10-12
In Pre-AP 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.							
Prerequisites: Algebra I and 1 Science							

AP Chemistry							
MISD #:	SCI303	**Course Code:**	A3040000	**Credits:**	1	**Grade Level:**	11-12
AP Chemistry provides students with college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore content such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium.							
Prerequisites: Chemistry and Algebra 2							

Environmental Systems							
MISD #:	SCI400	**Course Code:**	03020000	**Credits:**	1	**Grade Level:**	11-12
In Environmental Systems, students conduct laboratory and field 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 biotic and abiotic factors in habitats, ecosystems and biomes, interrelationships among resources and an environmental system, sources and flow of energy through an environmental system, relationship between carrying capacity and changes in populations and ecosystems, natural changes in the environment, and human activities that impact the natural environment.							
Prerequisites: Biology							

Engineering Design and Problem Solving D			
MISD #:	SCI412	**Course Code:**	
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			
Prerequisites: Algebra I, Geometry, and at least one credit in a level 2 or higher course in science, technology, engineering and math cluster.			

Advanced Animal Science							
MISD #:	SCI410	**Course Code:**	13000700	**Credits:**	1	**Grade Level:**	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.							
Prerequisites: Biology and Chemistry or Integrated Physics and Chemistry (IPC); Algebra I and Geometry; and either Small Animal Management, Equine Science, or Livestock Production.							

Astronomy							
MISD #:	SCI401	**Course Code:**	03060100	**Credits:**	1	**Grade Level:**	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.							
Prerequisites: 1 year of high school Science							

Anatomy and Physiology/Dual							
MISD #:	SCI407	**Course Code:**	13020600	**Credits:**	1	**Grade Level:**	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.							
Prerequisites: Biology							

Earth Systems Science							
MISD #:	SCI402	**Course Code:**	030060150	**Credits:**	1	**Grade Level:**	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. These systems (the atmosphere, hydrosphere, geosphere, and biosphere) interact through time to produce the Earth's landscapes, climate, and resources.							
Prerequisites: Algebra I and two credits of high school science.							

Forensic Science

MISD #: SCI411 **Course Code:** 13029500 **Credits:** 1 **Grade Level:** 11-12

(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.

Prerequisites: Biology and Chemistry, IPC, or Physics

AP Biology

MISD #: SCI203 **Course Code:** A3010200 **Credits:** 1 **Grade Level:** 11-12

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.

Prerequisites: Biology I and Chemistry

AP Environmental Science

MISD #: SCI403 **Course Code:** A3020000 **Credits:** 1 **Grade Level:** 11-12

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.

Prerequisites: Algebra I, 1 Year of Life Science, 1 Year of Physical Science

Physics

MISD #: SCI310 **Course Code:** 03050000 **Credits:** 1 **Grade Level:** 10-12

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.

Prerequisites: Algebra I

AP Physics I: Algebra-Based

MISD #: SCI311 **Course Code:** A3050003 **Credits:** 1 **Grade Level:** 11-12

AP Physics 1: 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.

Prerequisites: Geometry and concurrently taking Algebra 2 or equivalent course.

AP Physics II: Algebra-Based

MISD #: SCI313 **Course Code:** A3050004 **Credits:** 1 **Grade Level:** 12

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.

Prerequisites: Taken or concurrently taking Precalculus or equivalent course, AP Physics I

AP Physics C: Mechanics

MISD #: SCI317 **Course Code:** A3050006 **Credits:** 1 **Grade Level:** 12

AP Physics C: Mechanics is a one-semester, calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in one of the physical sciences or engineering. Students cultivate their understanding of physics through classroom study, in-class activity, and hands-on, inquiry-based laboratory work as they explore concepts like change, force interactions, fields, and conservation.

Prerequisites: AP Physics I, Concurrently taking Calculus

AP Physics C: Electricity and Magnetism

MISD #: SCI315 **Course Code:** A3050005 **Credits:** 1 **Grade Level:** 12

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.

Prerequisites: AP Physics C; Mechanics, AP Physics 1 or concurrently taking Calculus

Social Studies

World Geography

MISD #: SST100 **Course Code:** 03320100 **Credits:** 1 **Grade Level:** 9

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.

Prerequisites: none

AP Human Geography

MISD #: SST101 **Course Code:** A3360100 **Credits:** 1 **Grade Level:**

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.

World History

MISD #: SST200 **Course Code:** 03340400 **Credits:** 1 **Grade Level:** 10

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.

Prerequisites: none

AP World History

MISD #: SST201 **Course Code:** A3370100 **Credits:** 1 **Grade Level:** 10

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.

Prerequisites: none

United States History

MISD #: SST300 **Course Code:** 03340100 **Credits:** 1 **Grade Level:** 11

Students travel back through past decades to the present time. During each decade, contributions of all people to the American scene are emphasized.

Prerequisites: none

AP United States History

MISD #: SST301 **Course Code:** A3340100 **Credits:** 1 **Grade Level:** 11

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.

Prerequisites: none

United States Government							
MISD #:	SST400	**Course Code:**	03330100	**Credits:**	.5	**Grade Level:**	12
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.							
Prerequisites: none							

AP United States Government							
MISD #:	SST401	**Course Code:**	A3330100	**Credits:**	.5	**Grade Level:**	11-12
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.							
Prerequisites: none							

Economics With Emphasis On The Free Enterprise System							
MISD #:	SST410	**Course Code:**	03310300	**Credits:**	.5	**Grade Level:**	11-12
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.							
Prerequisites: none							

AP Microeconomics							
MISD #:	SST411	**Course Code:**	A3310100	**Credits:**	.5	**Grade Level:**	12
Fall Semester Only. 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.							
Prerequisites: none							
AP Macroeconomics							
MISD #:	SST415	**Course Code:**	A3310200	**Credits:**	.5	**Grade Level:**	12
Spring Semester Only. 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.							
Prerequisites: none							

Psychology							
MISD #:	SST500	**Course Code:**	03350100	**Credits:**	.5	**Grade Level:**	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.							
Prerequisites:							

AP Psychology							
MISD #:	SST501	**Course Code:**	A3350100	**Credits:**	.5	**Grade Level:**	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.							
Prerequisites:							

Sociology							
MISD #:	SST502	**Course Code:**	03370100	**Credits:**	.5	**Grade Level:**	10-12
Fall Semester Only. 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.							
Prerequisites: none							

Personal Financial Literacy and Economics							
MISD #:	SST510	**Course Code:**	03380083	**Credits:**	.5	**Grade Level:**	11-12
This course emphasizes an economic way of thinking that serves as a foundation for making personal financial decisions and addressing financial challenges. Students will study basic economics models of supply and demand as well as market structures and government involvement in the economy. Students will also learn the strategies of earning and saving money as well as investment and long-term planning strategies.							
Prerequisites: none							

French I

MISD #:	FRN100	Course Code:	03410100	Credits:	1	Grade Level:	9-11

French I is an introduction to the French language and culture. Students in this course will develop speaking, writing, and reading proficiency on topics dealing with the everyday life of a student. Students will be guided in recognizing the interrelationships between cultures and will be able to identify cultural perspectives and practices of the Francophone world. The expected outcome of this course is developing novice mid –novice high proficiency. This course is taught in French a significant amount of time in a communicative setting.

Prerequisites: none

French II

MISD #:	FRN200	Course Code:	03410200	Credits:	1	Grade Level:	10-12

French II continues to introduce students to French language and culture. Students in this course will develop speaking, writing, and reading proficiency on topics expanded to include life outside of school and in the real world. Students will be guided in recognizing the interrelationships between cultures and will be able to identify cultural perspectives and practices of the Francophone world. The expected outcome of this course is developing novice high –intermediate low proficiency. This course is taught in French a significant amount of time in a communicative setting.

Prerequisites: French I

French III Honors

MISD #:	FRN301	Course Code:	03410300	Credits:	1	Grade Level:	11-12

French III Honors introduces students to content–based thematic learning. Students in this course will continue to develop speaking, writing, and reading proficiency as they work with real–life issues, topics, and concerns in specific contexts. Use of applicable resources will allow local and global cultural perspectives within each context .Students in this course will be supported as they expand their vocabulary and increase the complexity of their products by owning their own learning, implementing personal and self–selected vocabulary, and demonstrating an ability to respond to tasks requiring high cognition and creative thinking. The expected outcome of this course is developing intermediate low –intermediate mid proficiency. This course is taught predominantly in French in a communicative setting.

Prerequisites: French II

AP French IV

MISD #:	FRN401	Course Code:	A3410100	Credits:	1	Grade Level:	12

AP French IV prepares students to demonstrate Intermediate Mid–High proficiency across the full range of language skills within a cultural frame of reference. Students will be expected to demonstrate an understanding of the target culture, incorporate interdisciplinary topics, make cultural comparisons, and communicate in a variety of settings. Using current events, global viewpoints and cultural literature, integrated resources, and content–based instruction, students will develop an increased awareness in the products, practices, and perspectives of the Francophone world. The expected outcome of this course is developing Intermediate Mid–Intermediate High proficiency and to prepare students for success on the AP French Language and Culture Exam. This course is taught in French.

Prerequisites: French III Honors

German I							
MISD #:	GER100	**Course Code:**	03420100	**Credits:**	1	**Grade Level:**	9-11

German I is an introduction to German language and culture. Students in this course will develop speaking, writing, and reading proficiency on topics dealing with the everyday life of a student. Students will be guided in recognizing the interrelationships of between cultures and will be able to identify cultural perspectives and practices of the German speaking world.The focus of this course is developing Novice Mid –Novice High proficiency. This course is taught in German a significant amount of time.

Prerequisites: none

German II							
MISD #:	GER200	**Course Code:**	03420200	**Credits:**	1	**Grade Level:**	10-11

German II continues to introduce students to German language and culture. Students in this course will develop speaking, writing, and reading proficiency on topics expanded to include life outside of school and in the real world. Students will be guided in recognizing the interrelationships of between cultures and will be able to identify cultural perspectives and practices of the German speaking world.The focus of this course is developing Novice High –Intermediate Low proficiency. This course is taught in German a significant amount of time.

Prerequisites: German I

German III Honors							
MISD #:	GER301	**Course Code:**	03420300	**Credits:**	1	**Grade Level:**	11-12

German III Honors introduces students to content–based thematic learning. Students in this course will continue to develop speaking, writing, and reading proficiency as they work with real–life issues, topics, and concerns in specific contexts. Use of applicable resources will allow local and global cultural perspectives within each context. Students in this course will be expected to expand their vocabulary and increase the complexity of their products by owning their learning, implementing personal and self–selected vocabulary, and demonstrating an ability to respond to tasks requiring high cognition and creative thinking. The expected outcome of this course is developing Intermediate Low–Mid proficiency. This course is taught predominantly in German.

Prerequisites: German II

AP German IV

MISD #:	GER401	Course Code:	A3420100	Credits:	1	Grade Level:	11-12

AP German IV prepares students to demonstrate Intermediate Mid–High proficiency across the full range of language skills within a cultural frame of reference. Students will be expected to demonstrate an understanding of the target culture, incorporate interdisciplinary topics, make cultural comparisons, and communicate in a variety of settings. Using current events, global viewpoints and cultural literature, integrated resources, and content–based instruction, students will develop an increased awareness in the products, practices, and perspectives of the German world. The expected outcome of this course is developing Intermediate Mid–Intermediate High proficiency and to prepare students for success on the AP German Language and Culture Exam. This course is taught in German.

Prerequisites: German III

Spanish I

MISD #:	SPA100	Course Code:	03440100	Credits:	1	Grade Level:	9-11

Spanish I is an introduction to Spanish language and culture. Students in this course will develop speaking, writing, and reading proficiency on topics dealing with the everyday life of a student. Students will be guided in recognizing the interrelationships of between cultures and will be able to identify cultural perspectives and practices of the Spanish speaking world.The focus of this course is developing Novice mid –Novice high proficiency. This course is taught in Spanish a significant amount of time.

Prerequisites: none

Spanish II

MISD #:	SPA200	Course Code:	03440200	Credits:	1	Grade Level:	9-11

Spanish II continues to introduce students to Spanish language and culture. Students in this course will develop speaking, writing, and reading proficiency on topics expanded to include life outside of school and in the real world. Students will be guided in recognizing the interrelationships of between cultures and will be able to identify cultural perspectives and practices of the Spanish speaking world.The focus of this course is developing Novice High –Intermediate Low proficiency. This course is taught in Spanish a significant amount of time.

Prerequisites: Spanish I

Spanish III Honors							
MISD #:	SPA301	**Course Code:**	03440300	**Credits:**	1	**Grade Level:**	10-11

Spanish III Honors introduces students to content–based thematic learning. Students in this course will continue to develop speaking, writing, and reading proficiency as they work with real–life issues, topics, and concerns in specific contexts. Use of applicable resources will allow local and global cultural perspectives within each context. Students in this course will be expected to expand their vocabulary and increase the complexity of their products by owning their own learning, implementing personal and self–selected vocabulary, and demonstrating an ability to respond to tasks requiring high cognition and creative thinking. The expected outcome of this course is developing Intermediate Low–Mid proficiency. This course is taught predominantly in Spanish.

Prerequisites: Spanish II

AP Spanish IV							
MISD #:	SPA401	**Course Code:**	03440400	**Credits:**	1	**Grade Level:**	11-12

AP Spanish IV prepares students to demonstrate Intermediate Mid–High proficiency across the full range of language skills within a cultural frame of reference. Students will be expected to demonstrate an understanding of the target culture, incorporate interdisciplinary topics, make cultural comparisons, and communicate in a variety of settings. Using current events, global viewpoints and cultural literature, integrated resources, and content–based instruction, students will develop an increased awareness in the products, practices, and perspectives of the Spanish speaking world. The expected outcome of this course is developing Intermediate Mid–Intermediate High proficiency and to prepare students for success on the AP Spanish Language and Culture Exam. This course is taught in Spanish.

Prerequisites: Spanish III, Through placement test

AP Spanish V							
MISD #:	SPA501	**Course Code:**	A3440200	**Credits:**	1	**Grade Level:**	12

AP Spanish V is an introduction of Hispanic literature. In this course students will read poetry, prose, drama, and essays that capture the voices from Latin America, the United States, and Spain while exploring their rich cultural heritage. This course prepares the student for the AP Spanish Literature and Culture Exam.

Prerequisites: Spanish IV

AP Computer Science Principles							
MISD #:	LOT100	**Course Code:**	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	**Course Code:**	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.							

Computer Science I (TACS1)							
MISD #:	LOT300	**Service Id # :**	03580200	**Credits:**	1	**Grade Level:**	10-12
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.							
Prerequisites: Algebra I							

Fine Arts

Art I

MISD #: ART100 **Course Code:** 03500100 **Credits:** 1 **Grade Level:** 9-12

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. There is a fee associated with taking this course.

Prerequisites: Art I

Art II

MISD #: ART200 **Course Code:** 03200200 **Credits:** 1 **Grade Level:** 9-12

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. There is a fee associated with taking this course.

Prerequisites: Art I

Art III

MISD #: ART300 **Course Code:** 03500300 **Credits:** 1 **Grade Level:** 10-12

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. There is a fee associated with taking this course.

Prerequisites: Art II

Art IV

MISD #: ART400 **Course Code:** 03500400 **Credits:** 1 **Grade Level:** 9-12

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. There is a fee associated with taking this course.

Prerequisites: Art III

AP Studio Art - Drawing

MISD #: ART500 **Course Code:** A3500300 **Credits:** 1 **Grade Level:** 11-12

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 3D 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. There is a fee associated with taking this course.

Prerequisites: Art I and one year of another Art class

AP Studio Art - 2-D Design Portfolio							
MISD #:	ART501	**Course Code:**	A3500400	**Credits:**	1	**Grade Level:**	11-12
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. There is a fee associated with taking this course.							
Prerequisites: Art I							

Band I-IV							
MISD #:	MUS100/200/ 300/400	**Course Code:**	03150100-400	**Credits:**	1	**Grade Level:**	9-12
Band provides an opportunity for students to continue instrumental development and introduces students to ensemble performance, focusing on the study and practice of band repertoire. It emphasizes the development of technical skills, musical interpretation, and collaboration within a large ensemble. There will be extra rehearsals outside of class time, which could include morning or evening rehearsals, sectionals and summer band. The summer band schedule is determined by the program directors. There is an assessment fee associated with taking this course.							
Prerequisites: Students should have previous experience. An audition may be required.							

Jazz Band I-III							
MISD #:	MUS110/210/ 310/410	**Course Code:**	03150300-600	**Credits:**	1	**Grade Level:**	9-12
Jazz band is open to members of band students who have a desire to learn modern, popular and or jazz music. Members of the Jazz Band are required to be simultaneously enrolled in Band or, at the director's discretion, may participate with instruments such as piano, guitar, or electric bass. The Jazz Band will give numerous performances both on and off campus.							
Prerequisites: Determined by each campus							

Orchestra I-IV							
MISD #:	MUS120/220/ 320/420	**Course Code:**	03150500-800	**Credits:**	1	**Grade Level:**	9-12
Orchestra provides an opportunity for students to continue instrumental development and introduces students to ensemble performance, focusing on the study and practice of orchestral repertoire. It emphasizes the development of technical skills, musical interpretation, and collaboration within a large ensemble. There will be extra rehearsals outside of class time, which could include morning or evening rehearsals, sectionals and summer orchestra. The summer orchestra schedule is determined by the program directors. There is an assessment fee associated with taking this course.							
Prerequisites: Students should have previous experience. An audition may be required.							

AP Music Theory

MISD #:	MUS501	**Course Code:**	A3150200	**Credits:**	1	**Grade Level:**	11-12

The AP Music Theory course will develop a student's ability to recognize, understand and describe the basic materials and processes of music that are heard or presented in a score. The student will also be confident to take the Music Theory AP test at the end of the year.

Prerequisites: Must be in Band, Choir, Orchestra

Choir I-IV

MISD #:	MUS150/250/ 350/450	**Course Code:**	03150900-1200	**Credits:**	1	**Grade Level:**	9-12

Choir provides an opportunity for students to continue instrumental development and introduces students to ensemble performance, focusing on the study and practice of choir repertoire. It emphasizes the development of technical skills, musical interpretation, and collaboration within a large ensemble. There will be extra rehearsals outside of class time, which could include morning or evening rehearsals, sectionals and summer choir. The Summer Choir schedule is determined by the program directors. There is an assessment fee associated with taking this course.

Prerequisites: Audition may be required

Applied Music

MISD #:	MUS170/270/ 370/470	**Course Code:**	03152500/ 03152600-602	**Credits:**	1	**Grade Level:**	9-12

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.

Prerequisites: none

Dance I-IV

MISD #:	DAN100/200/ 300/400	**Course Code:**	03830100-400	**Credits:**	1	**Grade Level:**	9-12

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.

Prerequisites: none

Mariachi							
MISD #:	MUS140/240/340/	**Course Code:**	03153800	**Credits:**	1	**Grade Level:**	10-12
This course involves the study, rehearsal, and performance of Mariachi music with a focus on the medium-sized ensemble setting (10-15). Students will explore the stylistic qualities of this music in sectional and full ensemble settings, with the intention of public performance. There is an assessment fee associated with taking these courses.							
Prerequisites: Must be a part of your home ensemble, ie, Band, Choir, Orchestra							

GUITAR							
MISD #:	MUS190	**Course Code:**	03154600	**Credits:**	1	**Grade Level:**	9-12
Students will be introduced to the study of instrumental music as they learn standard performance practices on the guitar. Areas of instructions will include instrument care, techniques and fundamentals of musicianship, tone production, proper posture, and music literacy.							
Prerequisites:							

Color Guard	
MISD #:	MUS101/201/301/401
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. There may be an assessment fee associated with taking these courses.	
Prerequisites: Audition	

Theatre Arts I-IV							
MISD #:	THE100/200/300/400	**Course Code:**	03250100-400	**Credits:**	1	**Grade Level:**	9-12
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 an assessment fee associated with taking these courses.							
Prerequisites:							

Theatre Production I-IV							
MISD #:	THE110/210/310/410	**Course Code:**	03250700-1000	**Credits:**	1	**Grade Level:**	9-12
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 an assessment fee associated with taking these courses.							
Prerequisites: Audition							

Technical Theatre I-III							
MISD #:	THE120/220/320/420	**Course Code:**	03250500/600/1100/1200	**Credits:**	1	**Grade Level:**	9-12
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. Students are encouraged to attend play rehearsals and serve on production crews. There may be an assessment fee associated with taking these courses.							
Prerequisites: Portfolio Review may be required							

Floral Design							
MISD #:	FFL100	**Course Code:**	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							

Athletic Training

MISD #: ATR100-400 **Course Code:** 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 **Course Code:** 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 **Course Code:** 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 **Course Code:** PES00012 **Credits:** .5 **Grade Level:** 09-12

This performance ensemble emphasizes musical excellence and precision in movements through modern marching techniques in parade and field show design. Performance requirements include football games, marching competitions, and parades, with the possibility of additional performance opportunities scheduled by the director. There will be extra rehearsals outside of class time, which could include morning or evening rehearsals, sectionals, and summer band practice. The summer band schedule is determined by the program directors. There is an assessment fee associated with taking this course.

Prerequisites: Students should have previous experience. An audition may be required.

ROTC

MISD #: PED130 **Course Code:** PES00004 **Credits:** 1 **Grade Level:** 09-12

Junior Reserve Officer Training Corps, or JROTC, is a high school elective program whose mission is to teach students citizenship, leadership, character, and community service. The core values are at the heart of JROTC, whose creed emphasizes working to better the cadet's family, school, and country.

Prerequisites: Audition

Lifetime Fitness & Wellness							
MISD #:	PED102	**Course Code:**	PES00051	**Credits:**	1	**Grade Level:**	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.							
Prerequisites: None							

Lifetime Recreation & Outdoor Pursuits							
MISD #:	PED101	**Course Code:**	PES00053	**Credits:**	1	**Grade Level:**	9-12
This is an academic subject with a planned and sequential curriculum based on the national standards for physical education. Students in Lifetime Recreation and Outdoor Pursuits participate in activities that promote physical literacy, respect for and connection to nature and the environment, and opportunities for enjoyment for a lifetime.							
Prerequisites: None							

Skill-Based Lifetime Activity							
MISD #:	PED103	**Course Code:**	PES00056	**Credits:**	1	**Grade Level:**	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.							
Prerequisites: None							

Health 1							
MISD #:	PED104	**Course Code:**	03810100	**Credits:**	.5	**Grade Level:**	09-12
Students will relate health information and skills to physical health and hygiene, mental health and wellness, healthy eating and physical activity, injury and violence prevention and safety, alcohol, tobacco, and other drugs, and reproductive and sexual health.							
Athletics							
MISD #:		**Course Code:**	PES00013	**Credits:**	1	**Grade Level:**	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.							
Prerequisites: Member of the athletic team, Coach's recommendation and approval							

Athletics and Physical Education

Team Sports Officiating							
MISD #:	PED106	**Course Code:**	N1160012	**Credits:**	1	**Grade Level:**	10-12
Students will learn rules and regulations of selected team sports, developing skills in the area of communication, decision making, and conflict management which are needed to officiate team sport competitions.							
Prerequisites							

Career & Technical Education (CTE) Course Descriptions

Architecture and Construction

Heating, Ventilation Air Conditioning (HVAC) and Refrigeration Technology I (HVACREF1) Dual Credit							
MISD #:	NAR/ARC020	**Course Code: :**	13005800	**Credits:**	1	**Grade Level:**	11
In Heating, Ventilation, and Air Conditioning and Refrigeration Technology I, students will gain knowledge and skills needed to enter the industry as technicians in the HVAC and refrigeration industry or building maintenance industry, prepare for a postsecondary degree in a specified field of construction management, or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, principles of HVAC theory, use of tools, codes, and installation of HVAC and refrigeration equipment.							
Prerequisites: none							

Principles of Construction (PRINCON) Dual Credit							
MISD #:	NAR/ARC010	**Course Code: :**	13004220	**Credits:**	1	**Grade Level:**	11
Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. For safety and liability considerations, limiting course enrollment to 15 students is recommended. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.							
Prerequisites: none							

Heating, Ventilation Air Conditioning (HVAC) and Refrigeration Technology II (HVACREF2) Dual Credit							
MISD #:	NAR/ARC030	**Course Code :**	13005900	**Credits:**	2	**Grade Level:**	12
In Heating, Ventilation, and Air Conditioning and Refrigeration Technology II, students will gain advanced knowledge and skills needed to enter the industry as HVAC and refrigeration technicians or building maintenance technicians or supervisors, prepare for a postsecondary degree in a specified field of construction or construction management, or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, use of tools, codes, installation of commercial HVAC equipment, heat pumps, troubleshooting techniques, various duct systems, and maintenance practices.							
Prerequisites: HVAC I							

Career & Technical Education (CTE) Course Descriptions

Agriculture, Food, and Natural Resources

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

MISD #: NAG/AGR010 **Course Code:** 13000200 **Credits:** 1 **Grade Level:** 9-12

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

Livestock Production (LIVEPROD)

MISD #: NAG/AGR020 **Course Code:** 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

Veterinary Medical Applications (VETMEDAP)

MISD #: NAG/AGR030 **Course Code:** 13000600 **Credits:** 1 **Grade Level:** 9-12

Veterinary Medical Applications covers topics relating to veterinary practices, including practices for large and small animal species.

Prerequisites: Equine Science, Small Animal Management, or Livestock Production

Advanced Animal Science (ADVANSCI)

MISD #: NAG/AGR040 **Course Code:** 13000700 **Credits:** .5 **Grade Level:** 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.

Prerequisites: 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.

Floral Design (FLORAL)

MISD #: NAG/AGR050 **Course Code:** 13001800 **Credits:** 1 **Grade Level:** 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.

Prerequisites: none

Advanced Floral Design (ADVFLDS)

MISD #: NAG/AGR055 **Course Code:** N1300270 **Credits:** 1 **Grade Level:** 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.

Prerequisites: Floral Design

Greenhouse Operation and Production (GREOP)

MISD #: NAG/AGR070 **Course Code:** 13002050 **Credits:** 1 **Grade Level:** 9-12

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

Prerequisites: none

Landscape Design and Management (LNDMGT)

MISD #: NAG/AGR060 **Course Code:** 13001900 **Credits:** .5 **Grade Level:** 10-12

Landscape Design and Management is designed to develop an understanding of landscape design and management techniques and practices. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.

Prerequisites: none

Turf Grass Management (TGMGT)

MISD #: NAG/AGR065 **Course Code:** 13001950 **Credits:** .5 **Grade Level:** 09-12

Turf Grass Management is designed to develop an understanding of turf grass management techniques and practices.

Prerequisites: none

Arts, A/V TEchnology, and Communications

Principles of Arts, Audio/Video Technology, and Communications (PRINAAVTC)							
MISD #:	NAV/AAV010	**Course Code :**	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 #:	NAV/AAV040	**Course Code :**	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 #:	NAV/AAV050	**Course Code :**	13008610	**Credits:**	2	**Grade Level:**	11-12
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 #:	NAV/AAV080	**Course Code :**	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 #:	NAV/AAV020	**Course Code :**	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							

Commercial Photography II (CPHOTO2)

MISD #: NAV/AAV085 **Course Code :** 13009200 **Credits:** 1 **Grade Level:** 11-12

In addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an advanced technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs.

Prerequisites:

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

MISD #: NAV/AAV030 **Course Code :** 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

Practicum in AV Production (PRACAVP1)

MISD #: NAV/AAV100 **Course Code :** 13008700 **Credits:** 2 **Grade Level:** 11-12

Building upon the concepts taught in Audio/Video Production II and its corequisite Audio/Video Production II Lab, 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 increasing understanding of the industry with a focus on applying pre production, production, and post-production audio and video products in a professional environment. This course may be implemented in an advanced audio/video or audio format. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

Prerequisites: Audio/Video Production Lab II

Practicum in Commercial Photography (PRACCPH1)

MISD #: NAV/AAV300 **Course Code :** 13009250 **Credits:** 2 **Grade Level:** 11-12

In addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an advanced technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs.

Prerequisites: Commercial Photography 1 & 2 and teacher recommendation.

Practicum in Graphic Design & Illustration (PRACGRD1)

MISD #: NAV/AAV200 **Course Code :** 13009000 **Credits:** 2 **Grade Level:** 11-12

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 a technical understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

Prerequisites: Graphic Design and Illustration Lab II

Principles of Business, Marketing, and Finance (PRINBMF -D)							
MISD #:	NBM/BMF110	**Course Code:**	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 #:	NBM/BMF010	**Course Code:**	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 #:	NBM/BMF020 NBM/BMF100	**Course Code:**	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) Non-Dual or Dual Credit

MISD #: NBM/BMF030 NBM/BMF115 **Course Code** 13012100 **Credits:** 1 **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 #: NBM/BMF060 **Course Code** 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 #: NBM/BMF040 **Course Code** 13016600 **Credits:** 1 **Grade Level:** 10-12

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 #: NBM/BMF050 **Course Code** 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

Statistics and Business Decision Making (STATBDM) Non-Dual or Dual Credit

MISD #: NBM/BMF070 NBM/BMF125 **Course Code** 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 #:	NED/EDU000	**Course Code :**	13014200	**Credits:**	1	**Grade Level:**	9
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) Non-Dual or Dual Credit							
MISD #:	NED/EDU010 NED/EDU011	**Course Code :**	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) Non-Dual or Dual Credit							
MISD #:	NED/EDU020 NED/EDU200	**Course Code :**	13014400	**Credits:**	2	**Grade Level:**	11
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: 1 credit from Education and Training Career Cluster							

Practicum in Education and Training (PRACEDT1) Non-Dual or Dual Credit							
MISD #:	NED/EDU030 NED/EDU300	**Course Code :**	13014500	**Credits:**	2	**Grade Level:**	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 #: NEN/ENR010 **Course Code:** 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 #: NEN/ENR020 **Course Code:** 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 #: NEN/ENR030 **Course Code:** 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 #: NEN/ENR040 **Course Code:** 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

Occupational Safety & Environmental Technology I and II (OSET1 and OSET2)

MISD #: NEN/ENR000 NEN050 **Course Code:** N1303680/81 **Credits:** 1 **Grade Level:** 10/12

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.

Prerequisites: OSET I for OSET II

Engineering Design and Presentation I (ENGDSPR1)

MISD #: NST/STM010 **Course Code:** 13036500 **Credits:** 1 **Grade Level:** 10-11

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

Engineering Design and Presentation II (ENGDSPR2)

MISD #: NST/STM020 NST/STM210 **Course Code:** 13036600 **Credits:** 2 **Grade Level:** 11-12

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

AP Computer Science A (APTACSAM or APTACSAL)

MISD #: NST/STM070 **Course Code:** A3580110/120 **Credits:** 1 **Grade Level:** 11-12

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 Recommended

Manufacturing Engineering Technology I (MANENGT1)

MISD #: NST/STM215 **Course Code:** 13032900 **Credits:** 1 **Grade Level:** 11

In Manufacturing Engineering Technology I, students will gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. Students will prepare for success in the global economy. The study of manufacturing engineering will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing setting.

Prerequisites:

Engineering Design and Problem Solving (ENGDPRS)							
MISD #:	NST/STM200	**Course Code:**	13037300	**Credits:**	1	**Grade Level:**	11
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 #:	NST/STM060	**Course Code:**	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 Recommended							

Principles of Applied Engineering (PRAPPENG)							
MISD #:	NST/STM000	**Course Code:**	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							

Computer Science I (TACS1)							
MISD #:	NST/STM075	**Course Code:**	03580200	**Credits:**	1	**Grade Level:**	10-12
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.							
Prerequisites: Algebra I							

Principles of Information Technology(PRINIT) Dual Credit							
MISD #:	NST/STM100	**Course Code :**	113027200	**Credits:**	1	**Grade Level:**	11
In Principles of Information Technology, students will develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students will enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment.							
Prerequisites: none							

Networking (NETWRK} Dual Credit							
MISD #:	NST/STM105	**Course Code :**	13027400	**Credits:**	1	**Grade Level:**	11
In Networking, students will develop knowledge of the concepts and skills related to data networking technologies and practices to apply them to personal or career development. To prepare for success, students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.							
Prerequisites: Principles of IT							

Computer Maintenance (COMPMTN) Dual Credit							
MISD #:	NST/STM110	**Course Code :**	13027300	**Credits:**	1	**Grade Level:**	12
In Computer Maintenance, students will acquire knowledge of computer maintenance and creating appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as related to computer maintenance. Students will apply technical skills to address the IT industry and emerging technologies.							
Prerequisites: Principles of IT, Networking							

Cybersecurity Capstone (TACYBCAP) Dual Credit							
MISD #:	NST/STM115	**Course Code :**	03580855	**Credits:**	1	**Grade Level:**	12
In the Cybersecurity Capstone course, students will develop the knowledge and skills needed to explore advanced concepts related to the ethics, laws, and operations of cybersecurity. Students will examine trends and operations of cyberattacks, threats, and vulnerabilities. Students will develop security policies to mitigate risks. The skills obtained in this course prepare students for additional study toward industry certification. A variety of courses are available to students interested in the cybersecurity field. Cybersecurity Capstone may serve as a culminating course in this field of study.							
Prerequisites: Computer Maintenance							

Principles of Health Science (PRINHLSC) Dual Credit

MISD #:	NHS/HSC000	**Course Code :**	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) Dual Credit

MISD #:	NHS/HSC010	**Course Code :**	13020300	**Credits:**	1	**Grade Level:**	10

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: Principles of Health Science

Anatomy and Physiology (ANATPHYS) Non-Dual or Dual Credit

MISD #:	NHS/HSC100 SCI/NSC407	**Course Code :**	13020600	**Credits:**	1	**Grade Level:**	11-12

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 - NA (HLSCLIN NA - D) Dual Credit

MISD #:	NHS/HSC020	**Course Code :**	13020410	**Credits:**	2	**Grade Level:**	11

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: Biology, Medical Terminology

Pathophysiology & Pharmacology (PATHO & PHARMC) Dual Credit

MISD #:	NHS/HSC050/ 060	**Course Code :**	13020800/950	**Credits:**	1/1	**Grade Level:**	11

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: Medical Terminology

Practicum in Health Science - Patient Care Technician (PRACHLS1 PCT - D) Dual Credit

MISD #: NHS/HSC040 **Course Code :** 13020500 **Credits:** 2 **Grade Level:** 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.

Prerequisites: Health Science Theory and Biology

Practicum in Health Science - Pharmacy Technician (PRACHLS1 PHT - D) Dual Credit

MISD #: NHS/HSC070 **Course Code :** 13020500 **Credits:** 2 **Grade Level:** 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.

Prerequisites: Health Science Theory and Biology

Health Science Theory/Health Science Clinical - Medical Assistant (HLSCLIN MED ASSIST - D)Dual Credit

MISD #: NHS085 **Course Code :** 13020410 **Credits:** 2 **Grade Level:** 11

The Health Science 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: Biology

Practicum in Health Science - Medical Assistant (PRACHLS1 MedAssist - D) Dual Credit

MISD #: NHS095 **Course Code :** 13020500 **Credits:** 2 **Grade Level:** 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.

Prerequisites: Health Science Theory and Biology

Health Science Theory/Health Science Clinical - Sterile Processing (HLSCLIN STER - D)Dual Credit

MISD #: NHS025 **Course Code :** 3020410 **Credits:** 2 **Grade Level:** 11

The Health Science 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: Biology

Practicum in Health Science - Sterile Processing (PRACHLS1 Ster - D) Dual Credit

MISD #: NHS035 **Course Code :** 13020500 **Credits:** 2 **Grade Level:** 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.

Prerequisites: Health Science Theory and Biology

Healthcare Administration and Management (HLTHAM - D) Dual Credit

MISD #: NHS042 **Course Code :** 13020962 **Credits:** 1 **Grade Level:** 11

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

Prerequisites: Medical Terminology

Health Informatics (HLTHINF - D) Dual Credit

MISD #: NHS/HSC070 **Course Code :** 13020960 **Credits:** 1 **Grade Level:** 11

The Health Informatics course is designed to provide knowledge of one of the fastest growing areas in both academic and professional fields. The large gap between state of the art computer technologies and the state of affairs in healthcare information technology has generated demand for information and health professionals who can effectively design, develop, and use technologies such as electronic medical records, patient monitoring systems, and digital libraries, while managing the vast amount of data generated by these systems.

Prerequisites: Medical Terminology

Medical Billing and Coding (MEDBC - D)Dual Credit

MISD #: NHS048 **Course Code :** 13020964 **Credits:** 1 **Grade Level:** 12

Medical Billing and Coding familiarizes students with the process, language, medical procedure codes, requirements of Health Insurance Portability and Accountability Act (HIPAA), and skills they will need to make accurate records. Students will develop an understanding of the entire process of the revenue cycle and how to effectively manage it. The program is designed to prepare students for employment in a variety of health care settings as entry level coder, medical billing specialist, and patient access representative.

Prerequisites: Medical Terminology

Scientific Research Design 1 and 2- Biomedical (SCRID & SCRID2 - D) Dual Credit

MISD #: SCI/NSC420 NSC425 **Course Code :** 13037200 13037210 **Credits:** 1 1 **Grade Level:** 12

Scientific Research and Design is a broad-based course designed to allow districts and schools considerable flexibility to develop local curriculum to supplement any program of study or coherent sequence. The course has the components of any rigorous scientific or engineering program of study from the problem identification, investigation design, data collection, data analysis, formulation, and presentation of the conclusions. These components are integrated with the career and technical education emphasis of helping students gain entry-level employment in high-skill, high-wage jobs and/or continue their education. Students must meet the 40% laboratory and fieldwork requirement. Students may take this course with different course content for a maximum of three credits.

Prerequisites: Biology, Chemistry, and IPC or Physics

World Health and Emerging Technologies (WORLDHT - D)Dual Credit

MISD #: NHS046 **Course Code :** 13020900 **Credits:** 1 **Grade Level:** 12

The World Health Research course is designed to examine major world health problems and emerging technologies as solutions to these medical concerns. It is designed to improve students' understanding of the cultural, infrastructural, political, educational, and technological constraints and inspire ideas for appropriate technological solutions to global medical care issues.

Prerequisites: Biology, Chemistry

Principles of Hospitality and Tourism (PRINHOSP)

MISD #: NHO/HOS000 **Course Code :** 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 #: NHO/HOS010 **Course Code :** 13022550 **Credits:** 1 **Grade Level:** 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 #: NHO/HOS020 **Course Code :** 13022600 **Credits:** 2 **Grade Level:** 11-12

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 #: NHO/HOS030 **Course Code :** 13022650 **Credits:** 2 **Grade Level:** 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

Practicum in Culinary Arts(PRACCUL1)

MISD #: NHO/HOS100 **Course Code** 13022700 **Credits:** 2 **Grade Level:** 12

Practicum in Culinary Arts is a unique practicum that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Culinary Arts integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing culinary art based workplace.

Prerequisites: Culinary Arts

Travel and Tourism Management (TRTORMGT)							
MISD #:	NHO/HOS040	**Course Code :**	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							

Introduction to Event and Meeting Planning (EVNTPLN)							
MISD #:	NHO/HOS060	**Course Code :**	N1302269	**Credits:**	1	**Grade Level:**	10-12
This course will introduce students to the concepts and topics necessary for the comprehensive understanding of the fundamentals of the meetings, conventions, events, and exposition industries. The course will review the roles of the organizations and people involved in the businesses that comprise the Meetings, Events, Expositions and Convention (MEEC) industry.							
Prerequisites: none							

Human Services

Introduction to Cosmetology (INTCOSMO)							
MISD #:	NHU/HUS010	**Course Code :**	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 (COSMET1)							
MISD #:	NHU/HUS020	**Course Code :**	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							

Human Services Cont'd

Cosmetology II (COSMET2)

MISD #: NHU/HUS030 **Course Code :** 13025300 **Credits:** 2 **Grade Level:** 12

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.

Prerequisites: Cosmetology I

Law and Public Service

Principles of Law, Public Safety, Corrections, and Security (PRINLPCS) Dual Credit

MISD #: NLP/LPS010 **Course Code :** 13029200 **Credits:** 1 **Grade Level:** 11

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.

Prerequisites: none

Correctional Services (CORRSRVS) Dual Credit

MISD #: NLP/LPS040 **Course Code :** 13029700 **Credits:** 1 **Grade Level:** 12

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.

Prerequisites: Law Enforcement 1

Firefighter I (FIRE1) Dual Credit

MISD #: NLP/LPS070 **Course Code :** 13029900 **Credits:** 2 **Grade Level:** 11

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

Prerequisites: none

Emergency Medical Tech Basic (EMTB D) Dual Credit

MISD #: NLP/LPS110 **Course Code :** N1303015 **Credits:** 2 **Grade Level:** 11-12

instructs students to meet and exceed standard knowledge needed to be a valid 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.

Prerequisites: Recommended Anatomy and Physiology

Firefighter II (FIRE2) Dual Credit

MISD #: NLP/LPS080 **Course Code :** 13030000 **Credits:** 3 **Grade Level:** 12

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.

Prerequisites: Firefighter I

Disaster Response (DISRESP) Fire or EMT Dual Credit

MISD #: NLP/LPS060 NLP/LPS100 **Course Code :** N1303011 **Credits:** 1 **Grade Level:** 11/12

Disaster Response includes basic training of students in disaster survival and rescue skills that would improve the ability of citizens to survive until responders or other assistance could arrive. Students will receive education, training, and volunteer service to make communities safer, stronger, and better prepared to respond to the threats of terrorism, crime, public health issues and disasters of all kinds.

Prerequisites: none

Law Enforcement I (LAWENF1) Dual Credit

MISD #: NLP/LPS020 **Course Code :** 13029300 **Credits:** 1 **Grade Level:** 11

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.

Prerequisites: Principles of Law, Public Safety, Corrections, and Security

Law Enforcement II (LAWENF2) Dual Credit

MISD #: NLP/LPS030 **Course Code :** 13029400 **Credits:** 1 **Grade Level:** 12

Law Enforcement II provides the knowledge and skills necessary to prepare for a career in law enforcement. Students will understand ethical and legal responsibilities, patrol procedures, first responder roles, telecommunications, emergency equipment operations, and courtroom testimony.

Prerequisites: Law Enforcement 1

Forensic Science (FORENSCI)

MISD #: NLP/LPS050 **Course Code :** 13029500 **Credits:** 1 **Grade Level:** 11-12

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.

Prerequisites: Biology and Chemistry

Principles of Applied Engineering - Robotics (PRAPPENG)

MISD #: NST/STM005 **Course Code :** 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 - Robotics (ENGDSPR1)

MISD #: NST/STM015 **Course Code :** 13036500 **Credits:** 1 **Grade Level:** 10

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

Robotics I (ROBOTIC1)

MISD #: NST/STM030 **Course Code :** 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:

Robotics II (ROBOTIC2)

MISD #: NST/STM040 **Course Code :** 13037050 **Credits:** 1 **Grade Level:** 12

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

Introduction to Welding (INTRWELD)

MISD #: NMF/MFG010 **Course Code :** 113032250 **Credits:** 1 **Grade Level:** 10

Introduction to Welding will introduce welding technology with an emphasis on basic welding laboratory principles and operating procedures. Students will be introduced to the three basic welding processes. Topics include: industrial safety and health practices, hand tool and power machine use, measurement, laboratory operating procedures, welding power sources, welding career potentials, and introduction to welding codes and standards. Introduction to Welding will provide students with the knowledge, skills, and technologies required for employment in welding industries. 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 will prepare students for future success.

Prerequisites: none

Manufacturing Cont'd

Welding I (WELD1) Dual Credit							
MISD #:	NMF/MFG020	**Course Code :**	13032300	**Credits:**	2	**Grade Level:**	11
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.							
Prerequisites: Intro to Welding							

Welding II (WELD2) Dual Credit							
MISD #:	NMF/MFG030	**Course Code :**	13032400	**Credits:**	2	**Grade Level:**	12
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.							
Prerequisites: Welding I							

Transportation

Automotive Technology I (AUTOTEC1) Dual Credit							
MISD #:	NTR/TRN020	**Course Code :**	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) Dual Credit							
MISD #:	NTR/TRN025	**Course Code :**	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							

Automotive Paint and Body (AUTOTEC1) Dual Credit							
MISD #:	NTR/TRN035	**Course Code :**	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: OSET 1							

Paint and Refinishing (PAINTREF) Dual Credit							
MISD #:	NTR/TRN030	**Course Code :**	: 13039900	**Credits:**	2	**Grade Level:**	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.							
Prerequisites: Auto Paint and Body							

Diesel Equipment Technology I (DIEQTEC1) Dual Credit							
MISD #:	NTR/TRN040	**Course Code :**	13040150	**Credits:**	2	**Grade Level:**	11
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.							
Prerequisites: OSET1							

Diesel Equipment Technology II (DIEQTEC2) Dual Credit							
MISD #:	NTR/TRN050	**Course Code :**	13040160	**Credits:**	2	**Grade Level:**	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.							
Prerequisites: Diesel Equipment Technology I							

Occupational Safety & Environmental Technology I (OSET1) Dual Credit							
MISD #:	NTR/TRN010	**Course Code :**	N1303680	**Credits:**	1	**Grade Level:**	10
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.							
Prerequisites: none							

Career & Technical Education (CTE) Course Descriptions

Career Development

Career Preparation General I | Extended 1 - (CPGEN1 or EXCPGEN1)

MISD #:	NCA/CAR110 NCA/CAR210	**Course Code :**	12701111 12701131	**Credits:**	2 3	**Grade Level:**	11-12

Provides opportunities for students to participate in a work-based learning environment that incorporates continuous collaborative feedback between the employer, teacher, and student. This course combines classroom instruction with business and industry employment experiences that may be outside the student's current program of study. The goal is for students to obtain entry-level employment developing a variety of skills for obtaining and maintaining employment. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

Prerequisites: Recommended at least one credit in a career and technical education course

Career Preparation General II | Extended II - (CPGEN2 or EXCPGEN2)

MISD #:	NCA/CAR115 NCA/CAR215	**Course Code :**	12701112 12701132	**Credits:**	2 3	**Grade Level:**	12

Provides opportunities for students to participate in a work-based learning environment that incorporates continuous collaborative feedback between the employer, teacher, and student. This course combines classroom instruction with business and industry employment experiences that may be outside the student's current program of study. The goal is for students to obtain entry-level employment developing a variety of skills for obtaining and maintaining employment. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

Prerequisites: Career Preparation General I or Extended Career Prep General 1

Career Preparation for Programs of Study I | Extended 1 (CPPS1 or EXCPPS1)

MISD #:	NCA/CAR100 NCA/CAR200	**Course Code :**	12701121 12701141	**Credits:**	2 3	**Grade Level:**	11-12

Provides additional opportunities for students to develop business and industry employment experiences, which must be related to the student's current program of study alongside advanced classroom instruction. The goal is to prepare students with a variety of skills to transition from job- to career-mindedness. This course provides a continuing focus on collaborative feedback between the employer, teacher, and student. Career Preparation for Programs of Study expands on Career Preparation General by increasing rigor, supporting student attainment of academic standards, and effectively preparing students for college and career success.

Prerequisites: At least one Level 2 or higher career and technical education course

Career Preparation for Programs of Study II | Extended II (CPPS2 or EXCPPS2)

MISD #:	NCA/CAR105 NCA/CAR205	**Course Code :**	12701122 12701142	**Credits:**	2 3	**Grade Level:**	12

Career Preparation for Programs of Study provides additional opportunities for students to develop business and industry employment experiences, which must be related to the student's current program of study alongside advanced classroom instruction. The goal is to prepare students with a variety of skills to transition from job- to career-mindedness. This course provides a continuing focus on collaborative feedback between the employer, teacher, and student. Career Preparation for Programs of Study expands on Career Preparation General by increasing rigor, supporting student attainment of academic standards, and effectively preparing students for college and career success

Prerequisites: Career Prep for Programs of Study 1 or Extended Career Prep for Programs of Study 1

Career & Technical Education (CTE) Course Descriptions

Career Development Cont'd

General Employability Skills (GEMPLS)

MISD #: NCA/CAR030 **Course Code :** N1270153 **Credits:** 1 **Grade Level:** 8-12

This course provides students with knowledge of the prerequisite skills for general employment as well as the means of obtaining those skills. Employability skills include fundamentals of maintenance of personal appearance and grooming. The course also includes the knowledge, skills, and attitudes that allow employees to get along with their co-workers, make important work-related decisions, and become strong members of the work team. Discovering job possibilities that link skills, abilities, interests, values, needs, and work environment preferences is a part of the process of obtaining employability skills and abilities and is experiential learning that takes place over time.

Prerequisites: none

Military Science - JROTC

Junior Reserve Officers' Training Corps I - (JROTC 1)

MISD #: NRO/ROT100 **Course Code :** 03160100 **Credits:** 1 **Grade Level:** 11-12

AFJROTC provides citizenship training and an Aerospace Science program for high school students. Secondary school students who enroll in the AFJROTC program are offered a wide variety of curricular and co-curricular activities. The program explores the historic and scientific aspects of aerospace technology and teaches high school students self-reliance, self-discipline and other leadership characteristics. Science, Technology, Engineering and Mathematics concepts are also an important part of this world class program.Those students who participate in AFJROTC do not incur any military obligation. AFJROTC objectives are to educate and train high school cadets in citizenship and life skills, promote community service, instill a sense of responsibility and develop character, leadership and self-discipline through education and instruction in air and space fundamentals and the Air Force's core values of Integrity First, Service Before Self and Excellence In All We Do.

Prerequisites: none

Junior Reserve Officers' Training Corps II - (JROTC 2)

MISD #: NNRO/ROT200 **Course Code :** 03160200 **Credits:** 1 **Grade Level:** 12

Prerequisites: JROTC 1

Junior Reserve Officers' Training Corps III - (JROTC 3)

MISD #: NRO/ROT300 **Course Code :** 103160300 **Credits:** 1 **Grade Level:** 11-12

Prerequisites: JROTC 2

Junior Reserve Officers' Training Corps IV - (JROTC 4)

MISD #: NRO/ROT400 **Course Code :** 03160400 **Credits:** 1 **Grade Level:** 11-12

Prerequisites: JROTC 3

Aviation Ground School (AVIAGS) - Qualify through instructor of JROTC

MISD #: NTR/TRN500 **Course Code :** N1304675 **Credits:** 1 **Grade Level:** 11-12

This course is designed to extend student interests in all aspects of aviation while preparing students to take the formal ground requisite exam for the Federal Aviation Administration (FAA) FAA Airman Knowledge Test which is required to obtain a private pilot's license. The rigor of the course challenges students with complex aeronautical, engineering, weather, management and judgement concepts. Rules, regulations, obligations, and commitments to discipline and focus are foundational throughout the course. The ability to grasp flight without actually flying a real aircraft extends well beyond the classroom as students learn navigation, weather science, attention to detail (mathematical fuel and load planning), health and mental well-being related to flight planning and piloting aircraft

Prerequisites: JROTC 1 and 2

Academic Electives: Course Descriptions

AP Seminar							
MISD #:	ELE100	**Course Code:**	N1130026	**Credits:**	1	**Grade Level:**	10-11
AP Seminar is a foundational course that engaged students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Students learn to investigate a problem or issue, analyze arguments, compare different perspectives, synthesize information from multiple sources, and work alone and in a group to communicate theirs ideas.							
Prerequisites:							

AP Research							
MISD #:	ELE120	**Course Code:#**	N1100014	**Credits:**	1	**Grade Level:**	11-12
AP Research allows students to deeply explore an academic topic, problem, issue, ir udea of individual interest. Students design, plna, and implement a yearlong investigation to address a research question. Through thus inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, abd curate the artifacts of their scholarly work through a process and reflection portfolio. THe course culminates in an academic paper fo 4,000-5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense.							
Prerequisites:							

Resources

Registration Resources

- Academic Planning Presentations
  - HONORS/PREAP/GT/AP/DC/High School Grad Plans
  - Business and Industry
  - Public Service
  - Arts & Humanities
  - STEM & Multidisciplinary
- CTE Dual Credit POS Crosswalk - Document

Resources

Useful Websites

www.act.org
ACT information and registration
www.fastweb.com
Scholarship & College search information

www.collegeboard.com
College searches, SAT information & registration

www.scholarships.com
Scholarship information

www.scholarships360.org
Scholarship search engine

https://web3.ncaa.org/ecwr3/
NCAA Eligibility Center

www.applytexas.org
The Texas common application website

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

www.pphef.org
College planning and financial aid information

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

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

www.tea.state.tx.us
Texas Education Agency provides State testing programs brochures and info.

www.midland.edu **Midland College**

www.txcareerandcollegeprep.org
Provides key components of college and career in one centralized location

https://www.midlandisd.net/students-parents/guidance-and-counseling/college-preparation/scholarship-information-and-misd-booklet
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