



**MARBLE FALLS**  
**HIGH SCHOOL**  
LOVE & INSPIRE

*Course Catalog*  
2024-2025

**Marble Falls High School**  
**2101 Mustang Drive**  
**Marble Falls, TX 78654**  
**830.693.4375**

## INTRODUCTION

Marble Falls High School is dedicated to providing an authentic, engaging educational experience that prepares students for their future. With comprehensive curricula and inspiring teachers, our students have the opportunity to enter and complete an educational pathway that will not only prepare them for the 21<sup>st</sup> century, but also equip them to lead extraordinary lives.

Years of research and data support the notion that a good education directly benefits individual students and society alike. Higher levels of education correlate to higher earnings for all racial and ethnic groups, and for both men and women. Higher levels of education correspond to lower levels of unemployment and poverty, as well. A student's high school career is the foundation for post-secondary education which translates into these benefits. Marble Falls High School delivers the coursework and hands-on experiences for students to build this foundation.

The Marble Falls Course Catalog is designed to assist students in making informed decisions about their high school education. Descriptions of courses, prerequisites, graduation requirements, and endorsement plans are provided to help personalize the high school experience. Students are encouraged to plan course selections carefully by partnering with their parents, counselors, and teachers so that a viable four-year plan can be created.

### **High School Administrators**

Patrick Hinson	Principal	<a href="mailto:phinson@mfisd.txed.net">phinson@mfisd.txed.net</a>
Kelly Minor	Associate Principal	<a href="mailto:kminor@mfisd.txed.net">kminor@mfisd.txed.net</a>
Shannon Minton	Assistant Principal	<a href="mailto:sminton@mfisd.txed.net">sminton@mfisd.txed.net</a>
Dr. Will Smith	Assistant Principal	<a href="mailto:wsmith@mfisd.txed.net">wsmith@mfisd.txed.net</a>

### **High School Counseling Department**

Students are assigned an academic counselor according to their last name.

Duane Teets	Lead Counselor (Q-Z)	830-798-3595	<a href="mailto:dteets@mfisd.txed.net">dteets@mfisd.txed.net</a>
Molly Heath	Counselor (A-G)	830-798-3594	<a href="mailto:mheath@mfisd.txed.net">mheath@mfisd.txed.net</a>
Shay Bolm	Counselor (H-P)	830-798-3593	<a href="mailto:sbolm@mfisd.txed.net">sbolm@mfisd.txed.net</a>

### **High School College and Career Guidance**

Ashley Benard	ECHS/CTE Coordinator	830-201-4909	<a href="mailto:abernard@mfisd.txed.net">abernard@mfisd.txed.net</a>
Gibson Holmes	College & Career Advisor	830-798-3680	<a href="mailto:gholmes@mfisd.txed.net">gholmes@mfisd.txed.net</a>

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# General Information

## Bell Schedule

Marble Falls High School offers eight instructional periods per day. The school year is divided into two semesters. Bell schedules can be found on our website.

## Course Load

All students are expected to be enrolled in eight classes. Fourth year Seniors who meet the requirements below may be eligible to have up to two off-periods. Juniors who meet the requirements can have up to one period off.

To be considered for an off period students must meet eligibility requirements to include:

- Must have a minimum of 16 credits for Juniors and 21 credits for Seniors.
- Must have shown college and career readiness by earning their CCMR “point” by one of the following means:
  - eligible for credit in an OnRamps course or dual enrollment course
  - score of 3 or higher on any AP Test
  - earned a college credit through a Dual Credit course in ELA or Math
  - SAT Score higher than 480 for Reading and Writing and 530 for Math
  - ACT Composite Score of 23 or higher with at least a score of 19 on the English section and at least a score of 19 on the math section
  - TSIA2 ELAR score higher than 945 and an essay score of at least 5, and Math score higher than 950 and a diagnostic level of at least 6
  - Earned an Industry Based Certification through our CTE Pathways
- Must be on track to earn an endorsement and/or program of study
- Must have passed all End-of-Course exams (EOCs/STAAR tests) the student was eligible to take.
- Juniors may only exchange an elective class for an off period, not a core class.

## Attendance

Students must be in attendance a minimum of 90 percent of the days during a semester to receive credit for each course. The State of Texas has provided a means of appeal for extenuating circumstances should a student’s absences exceed the maximum allowed each semester. Please contact the Assistant Principals or the student handbook for more detailed information.

## Drug Testing

All extra-curricular participants in grades 7-12 (male & female) will be subject to random drug testing. In addition, any student who parks on campus will be subject to drug testing. The following activities are included but are not limited to the drug testing policy:

Athletic Training	Band	Baseball
Basketball	BPA	Cheerleading
Chess Team	Choir	Color Guard

Cross Country	FCCLA	FFA/4-H
Football	Golf	Health Science Practicum
HOSA	Mustang Media	Soccer
Student Council	Swim	Tennis
Track	TSA	UIL Academics
UIL Theater	Volleyball	Yearbook

### **Extracurricular Activity Participation**

A student may participate in extracurricular activities at the beginning of the school year only if the student has earned the appropriate number of state credits.

<i>Number of years completed</i>	<i>Number of state credits in HS at the beginning of the school year</i>
1	05
2	10
3	15

For more specific eligibility guidelines, please refer to the eligibility section in the student handbook.

## **Scheduling Information**

### **Schedule changes**

It is very important that students and parents give careful consideration to course selection. The choices students make on the course selection sheets determine the master schedule. The master schedule determines teacher assignments. Though never perfect, it is designed to maximize student opportunities and minimize scheduling conflicts. Changes in the master schedule may result from insufficient course enrollment or instructor availability. During the course selection process, students should pay particular attention to alternate elective requests. To avoid schedule conflicts, students may be placed in one or more of his/her alternate elective selections. Student schedules will not be changed to accommodate a student's preferred teachers, lunch periods, or a change in preferred elective choices after the deadline to request a change. All schedule change requests for the next year must be submitted to the student's counselor by **the last day of school.**

### **After the deadline, changes to a student's schedule will be considered for the following reasons:**

1. The student is a senior and does not have a course required for graduation.
2. The student does not have the prerequisites for a course.
3. The course credit was previously received (ex.. – through summer school, correspondence courses, examination for acceleration, etc.).
4. A data entry error was made by the school (ex.- two first period classes or a schedule that does not contain the full number of classes).
5. The student has been dismissed from, or does not meet the criteria for, a program where approval must be granted for placement.

Schedule change requests for reasons other than those listed above will only be considered if a student is making a change to a program of study. A request to drop an Advanced or AP course will only be considered between the 4th and 6th week of school and at semester. Students may openly enroll in any of our Advanced/AP courses at the beginning of the school year and after consideration of the scope and level of work required in each course. Students who do not earn credit in the first semester of a year-long advanced course may be placed in an on-level class for the following semester.

## Student Services

### **ESL- English as a Second Language (ESL) - Grades 6-12**

MFISD offers an English as a Second Language (ESL) Program and provides each Emergent Bilingual (EB) student the opportunity to enroll in the required program at his or her grade level. Our ESL program includes instruction and instructional support designed to develop proficiency in listening, speaking, reading, and writing in the English language.

ESL instruction shall commensurate with the student's level of English proficiency and his or her level of academic achievement and scaffolded through mastery. In high school, the ESL Program shall be consistent with graduation requirements under Chapter 74. English for Speakers of Other Languages (ESOL) is designed to meet the needs of Emergent Bilingual (EB) students. EBs receive instruction in English from certified English as Second Language (ESL) teachers trained in recognizing and addressing second language development. This program is an integral part of the total school program and is based on the Texas Essential Knowledge and Skills (TEKS) and English Language Proficiency Standards (ELPS) as required by the State of Texas.

Sheltered Instruction (SI) is implemented in general education content-specific classes offered to Emergent Bilingual (EBs) students for state credit in high school. A sheltered content class incorporates second language acquisition methods and support systems to communicate learning and meaning in the content area. Sheltered Instruction classes are taught by teachers certified in a content area and trained in second language acquisition methodology. Sheltered Instruction classes cover all mandated TEKS; incorporate English Language Proficiency Standards (ELPS); and focus on adapting the instructional pacing and methods and accommodating materials for scaffolded instruction.

### **Gifted and Talented**

In grades 9-12, MFISD offers G/T services through accelerated academic programs commonly known as Honors (formerly PreAP) and Advanced Placement (AP) classes, UT OnRamps dual enrollment as well as Project Lead The Way (PLTW) Engineering courses. These classes are designed to extend and enrich the content of the regular curriculum. These college preparatory classes provide challenging opportunities for students with high interest in academic exploration and include out-of-class assignments. Students must be able to balance the time requirements of all their academic classes, as well as extra-curricular activities in which they choose to participate. Students who take Honors and AP classes are better prepared for the rigors of post-secondary education. Honors, AP, UT OnRamps and PLTW courses are designed to challenge the academically able student, as well as the gifted student. At MFHS, G/T students are in classroom settings with other G/T students, as well as high achievers who may not be labeled as G/T. Although MFHS emphasizes content in all four core academic areas (Language Arts, Math, Science, Social Studies)

for gifted learners through Honors and AP coursework, students do not necessarily participate in all four areas. Students should participate in those areas in which they have individual strengths. Students identified as gifted and talented will be encouraged to take Honors, AP, UT OnRamps and/or PLTW courses.

### **Section 504 Services**

Section 504 of the Rehabilitation Act prohibits discrimination and assures that disabled students have educational opportunities and benefits equal to those provided to non-disabled students. Eligible students have a record of, or are regarded as having a physical or mental impairment which substantially limits one or more major life activities, including functions such as learning, self-care, walking, seeing, hearing, speaking, breathing, working, and performing manual tasks. In order to receive services, even if the student has a physical or mental impairment, there must be substantial limitations on a major life activity, such as a serious problem requiring accommodation within the school. If a student has, or is suspected of having, a disability or requires special services, parents, teachers, administrators, or any other district employee should contact the campus counselor for information concerning available services.

### **Dyslexia Services**

MFISD offers services for students who are identified as being eligible for Special Education as a student with a Specific Learning Disability of Dyslexia. Dyslexia services are designed for students who require multisensory language instruction; or who require more intensive structured literacy instruction. As a structured literacy program based on phonological-coding research and Orton-Gillingham principles, the course directly and systematically teaches the structure of the English language. Through the program, students learn fluent decoding and encoding skills to the level of mastery. A student suspected of having Dyslexia will be evaluated through a full individual evaluation (FIE) to determine eligibility. If you suspect your student may have Dyslexia or related disorders please contact the school counselor to request an evaluation. Once eligibility is determined through the Admission, Review, and Dismissal Committee, the committee may recommend Special Education services and supports as established by the corresponding teams.

### **Special Education Services**

Each school has the responsibility for providing educational and related services to eligible students in the least restrictive environment, and ensuring students with disabilities have the opportunity to participate in educational programs and activities with students without disabilities to the extent appropriate. If a student has or is suspected of having a disability and requires special services, parents, teachers, administrators, or any other district employee should contact a campus counselor for information concerning the special education referral process.

The school district curriculum enables each student with disabilities to acquire knowledge and skills in the basic areas of learning commensurate with the student's needs and abilities. These skills may be attained in the general program of instruction or through special education modification or instruction and related services, as determined by the Admission, Review, and Dismissal (ARD) committee. Students with disabilities shall have available an instructional day that is commensurate with that of students without disabilities. The ARD committee shall determine the appropriate instructional setting for each student, and these shall be specified in the student's Individual Educational Plan (IEP).

### **The secondary program of a student receiving special education services shall terminate:**

- 1) upon completion of IEP and full time employment.
- 2) upon completion of IEP and mastery of employability and self-help skills.



- 3) upon completion of IEP and access to services outside of public education.
- 4) upon completion of IEP and reached age 22.

Graduation constitutes a release from services and is a change in placement.

## Required High School Assessments For Graduation



The STAAR program includes end-of-course assessments for English I, English II, Algebra I, Biology, and U.S History. These assessments demonstrate the competencies associated with the learning of the state-mandated curriculum, or TEKS. STAAR EOC testing takes place in April and May. Retest opportunities will be available during the Summer, Fall, and Spring administrations.

## Optional High School Assessments for Post-Secondary Preparation

### **Preliminary SAT/National Merit Scholarship Qualifying Test (PSAT/NMSQT)**

The PSAT/NMSQT is a “practice” test for the SAT. It provides students the opportunity to become familiar with the test format and the types of questions seen on the SAT. By taking the PSAT/NMSQT and meeting other requirements, Junior students may have the opportunity to compete for recognition and scholarships through the National Merit Scholarship Program as well as other scholarships. Score reports are provided to each student from the The College Board that show AP courses that might be of interest to the student. Marble Falls ISD pays for all junior students to take the PSAT during the school day. The PSAT/NMSQT is a test administered once a year. Sophomores may sign up with their counselor to take the PSAT, for a fee. All students have an opportunity to take a computer-based test prep course free of charge.

### **College Entrance Testing – ACT and SAT**

The ACT and SAT are college entrance exams. SAT and ACT tests are administered at Marble Falls High School on designated weekends throughout the school year. Tested content areas and dates of administration are set by the companies that create the exams. Students are encouraged to visit [www.collegeboard.org](http://www.collegeboard.org) or [www.act.org](http://www.act.org) for more information. Students may qualify for financial assistance for fees charged to take the tests. Counselors can provide information regarding these qualifications. Students may be given the opportunity to take one SAT, free of charge, during the school day in the Spring of their Junior year. MFISD pays for all juniors to take the SAT during the school day in the spring semester. All students have an opportunity to take a computer-based test prep course free of charge.

### **Armed Services Vocational Aptitude Battery (ASVAB)**

The ASVAB is a comprehensive career exploration and planning program that includes a multiple aptitude test battery, an interest inventory, and various career planning tools designed to help students explore the world of work. This test may be administered to students each year during school hours at no cost to the student or parent. Students must sign up in advance in the

counseling office to take the test. All students have an opportunity to take a computer-based test prep course free of charge.

### **Texas Success Initiative Assessment (TSIA2)**

Students must be in compliance with the Texas Success Initiative Assessment (TSIA), (Texas Education Code §51.3062) to enroll in Texas public institutions of higher education. Texas colleges require students to be assessed for college readiness in reading, writing, and math unless the student qualifies for an exemption or demonstrates college readiness through successful completion of college-level coursework. Some students may be exempt from taking the TSI based on ACT, SAT, or state assessment scores (see below). Marble Falls High School pays for all Junior students to take the TSIA in the Spring semester. All students have an opportunity to take a computer-based test prep course free of charge. Students are encouraged to speak to their counselor regarding signing up for the TSIA. Students who plan to take dual credit courses are required to take and pass the TSIA assessment prior to attending a dual credit course, unless they meet one of the exemptions.

The following scores will exempt a student from a portion or the entire TSI requirement:

- ACT - Composite score of 23 or higher on ACT with at least a score of 19 on the English section and at least a score of 19 on the math section.
- New SAT – Minimum score of 530 on the math section and a minimum score of 480 on the Evidence-Based Reading and Writing (EBRW) for tests taken March 5, 2016 or later.

*See Texas Administrative Code: Title 19, Part 1, Chapter 4, Subchapter C, rule 4.54 for more information regarding exemptions from the TSI.*

## **College Credit Options**

### **An important Note About Earning College Credit**

Before deciding to take a course for college credit, it is highly recommended that students look up the course prior to enrollment and compare it with the colleges/universities they wish to attend to see how the course transfers. The Texas Common Course Numbering System (TCCNS) is a cooperative effort among 136 Texas community colleges and universities to facilitate transfer of freshman and sophomore level general academic course work. To check to if a course will transfer to a public university in Texas, please visit <http://tccns.org/>.

### **Advanced Placement Courses**

Students may earn college credit upon successfully completing an AP class, taking the AP exam, and scoring a 3 or higher. The college determines if credit is earned and what credit will be given on their college transcript. AP exam registration fees are the responsibility of the student and parent.

### **Dual Credit Courses**

Students can start earning college credit before graduating from high school. Students are taught and graded in the same way as college students who take the same course. Students will receive college credit from the partnering institution immediately after they complete the course. Most courses transfer into any Texas college or university when a student earns a “C” or better. It is the student’s responsibility to check with the college or university to ensure acceptance of specific college credit courses. Marble Falls ISD does not give high school credit for a “D” or “F” earned in a dual credit or dual enrollment course.

Students and parents are responsible for paying tuition and textbooks for dual credit. Students should inquire with their school counselor about scholarships for students who are eligible based on family income. Incoming freshmen in the 2024-2025 school year enrolled in Early College High School receive free tuition and textbooks.

For the purpose of class ranking, dual credit grades officially issued by the institution of higher education at the end of each semester will be converted as follows:

A = 95

B = 85

C = 75

D or F = No credit issued

### **Dual Enrollment**

UT OnRamps is a dual enrollment college credit program coordinated by the University of Texas at Austin. Combining pedagogy, curriculum, and technology, OnRamps provides a University of Texas at Austin quality experience for high school students. OnRamps courses feature face-to-face classroom instruction coupled with online materials and activities that support learning inside and outside of the classroom. Each OnRamps course aligns with an existing equivalent course at UT Austin, using innovative pedagogies that train students for higher-order cognitive activities such as problem solving and application that post-secondary success requires. OnRamps prepares teachers to facilitate the UT designed learning experiences in their classrooms to accelerate students' success. High school teachers are paired with staff at UT Austin for one-on-one support.

Tarleton State University (TTU) offers dual enrollment courses. Like UT OnRamps, these courses feature face-to-face classroom instruction coupled with online materials and activities that support learning inside and outside of the classroom. TTU prepares teachers to facilitate the designed learning experiences in their classrooms to accelerate students' success. High school teachers are paired with staff at TTU for one-on-one support.

Northeast Lakeview College (NLC) is our Higher Education partner for the Early College High School. Like other dual credit classes, instruction can be delivered in a variety of ways including face-to-face instruction by a NLC approved MFHS teacher, or through virtual face-to-face instruction with a NLC professor. The delivery instruction will depend on staff qualifications and availability. The NLC courses offered align with the required Texas Essential Knowledge and Skills, and will be reflected on the students' high school and college transcripts.

There is a tuition cost for dual enrollment courses. See your counselor for the cost and options for payment. Scholarships may be available for students in need. Incoming freshmen in the 2024-2025 school year enrolled in Early College High School receive free tuition and textbooks.

[Dual Credit/Dual Enrollment Crosswalk](#)  
[College Credit Options - Comparison](#)

## **College, Career, and Military Readiness Program**

### **Career and Technical Education (CTE)**

Marble Falls ISD offers Career and Technical Education elective courses as well as CTE courses that

count as core courses. Students should create a balanced four-year plan that includes the best of both elective courses and core courses. Marble Falls ISD does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. Each student enrolled in a CTE course shall have the opportunity to participate in a student leadership training organization appropriate to the course in which he/she is enrolled. In many CTE courses, students will be prepared to take an Industry-based certification (IBC) exam at the conclusion of the course. See individual CTE course descriptions for the affiliated IBC's.

Students in some upper level Health Science classes (CCMA, Pharmacy Tech and EMT) must pass a background check prior to enrollment and are subject to random drug testing throughout the course of the program. Please see the course description for more information on the background check, random drug testing and how this affects course completion and certification.

<b>CTE courses for Science, Math &amp; Fine Arts credit</b>
CTE Class for Fine Arts credit <ul style="list-style-type: none"> <li>● Floral Design</li> </ul>
CTE Classes for Science credit <ul style="list-style-type: none"> <li>● Advanced Animal Science</li> <li>● Advanced Plant &amp; Soil Science</li> <li>● Anatomy &amp; Physiology</li> <li>● Forensic Science</li> <li>● Medical Microbiology (offered every other year, even years)</li> <li>● Pathophysiology (offered every other year, odd years)</li> <li>● Scientific Research &amp; Design</li> </ul>
CTE classes for Math credit <ul style="list-style-type: none"> <li>● Statistics &amp; Business Information Decision Making</li> </ul>

## Advanced Academic Courses

### Honors and AP Classes

Honors and Advanced Placement (AP) courses are available in many content areas. These courses typically require additional reading, outside of class assignments, and move at a faster pace. These courses also cover more curriculum than on-level courses. Students who do not earn credit in the first semester of a year-long advanced course may be placed in an on-level class for the following semester. Students who participate in AP and/or Honors courses are expected to reason, analyze, and understand coursework for themselves. AP classes are college-level courses that are taken as a part of the high school program, thus offering students the opportunity to take courses with more rigorous and challenging college-level content. Students who score successfully on AP exams (usually 3 or higher) may qualify for college credit at most colleges and universities. **All students who request an Honors or AP course will be required to complete an Honors/AP contract.**

Some AP courses may require summer assignments. When required, summer assignments for AP courses may be provided to students prior to leaving for summer break. A reminder about the summer assignment will be distributed via email to the students on one occasion during the summer. New students who enroll during the summer months will be informed during registration. Students may receive a grading rubric or how points are earned at the time that the assignment is given. These assignments are available on the MFHS website.

Students enrolled in or who have completed Advanced Placement (AP) courses are encouraged to take the College Board Advanced Placement Exams that are administered at Marble Fall High School in May. Students must sign up in advance to take the exams. Exam registration fees are the responsibility of the student and parent. Please see your counselor for options for financial assistance. Colleges and universities often grant credit, placement, or both, to students with scores of 3, 4, or 5 on AP exams. Students can find colleges with AP credit policies online by visiting AP Credit Policy Info at <http://www.collegeboard.com/ap>. Students are encouraged to check with admissions offices of colleges and universities they are interested in attending to verify the type of credit awarded for AP exams.

## Alternative Methods for Credit

### **Correspondence Courses**

A student may complete high school course requirements by successfully completing correspondence courses through accredited sources. Students should contact their counselor for further information. These courses, textbooks and/or additional fees are not paid for by Marble Falls ISD and are the responsibility of the student and parents. Correspondence courses are not accepted by the NCAA for Division I and Division II eligibility. Courses taken without prior approval from their counselor may not be approved for credit depending on if certain requirements were met.

### **Credit by Examination for Credit Recovery**

To be eligible to earn credit by examination, a student should have had prior instruction in the subject or course, as determined by the district based on a review of the student's educational records. Credit by examination shall not be used to gain eligibility for participation in extracurricular activities. To receive credit, students shall score a grade of 70 or above on the examination. The passing score is set by the state and not by the district. Fees for credit by examination for credit recovery shall be paid for by the student and parent. Students who wish to take credit by examination for credit recovery should see their counselor for approval. The Principal or designee, as applicable, shall have authority to offer a student the opportunity to demonstrate mastery in a subject or to earn credit for a course through CBE when the student has had prior instruction in the course and when:

- The student is enrolling in the district from a non-accredited school
- the student has failed a subject or course
- the student has earned a passing grade in a subject or course but has failed to earn credit because of excessive absences.

An appropriate district employee shall review the student's educational records to determine whether the student has had prior instruction in the course. Students must contact their counselor for more information regarding CBEs for students with and without prior instruction. Prior approval from your counselor must happen in order for you to take the credit by

examination, even on-site at UT Austin. CBE credit for core classes is not accepted by the NCAA for Division I or Division II eligibility. CBE credits do not count in GPA for class rank. CBE grades will be recorded on the student's transcript, only if the student passes the test. Should a student take the test and fail to pass it, the grade will not be recorded on the transcript.

### **Credit by Examination for Acceleration**

Students who wish to earn credit for a course in which they have had no prior formal instruction may test through an Exam for Acceleration (EA). Examinations are criterion referenced tests from Texas Tech University or University of Texas. Students must demonstrate 80% or higher mastery on each semester exam in order to earn credit for the course. The passing score is set by the state and not by the district. Marble Falls ISD pays for the cost for Exams for Acceleration. If the student fails the acceleration test and wants to repeat it, the student must pay to retest. Students are encouraged to review course study guides on university websites prior to taking the exam. Prior approval from your counselor must happen in order for you to take the Exam for Acceleration, even on-site at UT Austin. CBE or EA credit for core classes is not accepted by the NCAA for Division I or Division II eligibility. CBE credits do not count in GPA for class rank. CBE grades will be recorded on the student's transcript, only if the student passes the test. Should a student take the test and fail to pass it, the grade will not be recorded on the transcript.

Courses that require a STAAR EOC test are not eligible for CBE for acceleration. Ineligible courses include: Algebra I, Biology, English 1, English 2, and US History.

### **Credit Recovery**

Credit recovery is provided during the school year to give students opportunities to regain credit for courses that have been posted to the transcript with no credit awarded in the previous attempt. Credit recovery is offered via computer-based instruction. Not all courses are eligible for credit recovery. Students should contact their counselor for approval.

### **Summer School**

Summer school is provided to give students the opportunity to take a course that was not successfully completed during the school year or needed to get ahead (acceleration). Registration will be conducted during the spring semester. Grades earned in summer school are considered a part of the student's transcript. Summer school grades are not calculated as part of the student's GPA for class rank. Contact your counselor for more information about the dates and offerings for summer school.

### **Texas Virtual School Network - TxVSN**

The Texas Virtual School Network offers a variety of courses where both the student instruction and testing occurs online. Information is available at [www.txvsn.org](http://www.txvsn.org). Students interested in learning more about course offerings through TxVSN should visit their counselor to see if they are eligible to take a TxVSN course. Grades earned are not factored into GPA/Class Rank.

## **Early Graduation**

Students who would like to complete high school in less than four years are given the opportunity through early graduation. Three-year graduates will be classified as juniors during the fall semester and will be classified as seniors in the spring semester. Students who would like to finish

high school one semester early are given the opportunity through mid-term graduation.

To be considered a three-year graduate or a mid-term graduate, an application must be obtained from the counselor's office and completed/returned to the counselor's office no later than the first day of the semester one year prior to the student's graduation. Three-year graduates and mid-term graduates may participate in prom and graduation exercises. Three-year graduates may not qualify for senior privileges, such as early dismissal, late arrival, office aide, and Homecoming King/Queen.

#### **Early Graduation – Three-Year Graduates**

An early graduate declaration form must be signed by the student, parent(s) or guardian(s), school Counselor, and Principal.

Early graduates are not considered for Honor Graduate status but will be recognized at the Senior Scholarship Awards Night and Graduation if their GPA falls within the top 10% in the class.

#### **Summer Graduates**

A student who graduates during the summer shall be ranked with the class that graduated during the previous spring. A summer graduate shall not be eligible to participate in spring commencement ceremonies.

#### **December Graduates**

A student who graduates at the end of the fall semester shall be ranked among the students who will graduate during the spring. A mid-year graduate will be eligible to participate in spring commencement ceremonies.

# MARBLE FALLS HIGH SCHOOL GRADUATION REQUIREMENTS

## **High School Graduation Plans**

MFISD has graduation plans to serve the needs of all students. Since entrance requirements vary greatly from college to college and employers have varying needs and requirements, students should carefully consider high school course selections and investigate post-secondary entrance requirements before selecting their graduation plan. Research has consistently shown that students who take more challenging courses or participate in advanced programs in high school are more likely to be successful in post-secondary education. Students at Marble Falls High School are expected to complete an endorsement as designated in Texas HB 5.

All students shall enroll in the courses necessary to complete the curriculum requirements for the Foundation High School Program with an endorsement. The Texas Education Code, Section 28.025(b), allows a student to graduate under the Foundation High School Program without earning an endorsement if, after the student's sophomore year, the student and the student's parent/guardian are notified of the benefits of graduating with an endorsement and the student's parent/guardian gives written permission for the student to opt out of an endorsement. In order to graduate under the Foundation High School Program without an endorsement, the student must receive a copy of *The Benefits of the Foundation High School Program with an Endorsement* and sign a *Foundation High School Program Endorsement Opt-Out Agreement* along with the signature of a school administrator and the parent or guardian. A copy is kept in the student's permanent record folder upon graduation.

## **Foundation High School Program with Endorsement**

A student may earn an endorsement on their transcript by successfully completing the curriculum requirements for that endorsement, adopted by the State Board of Education and the Marble Falls ISD Board of Trustees. The curriculum requirements for graduating with the Foundation High School plan with an Endorsement require a student to exceed the Foundation Plan and successfully complete the following:

- The curriculum requirements for one or more Endorsement(s) to include a coherent sequence of courses that are content specific to the chosen endorsement in the following categories: Arts and Humanities, Business & Industry, Public Service, STEM, and Multidisciplinary Studies.
- Additional coursework to include:
  - One additional approved mathematics course (for a total of four math credits)
  - One additional approved science course (for a total of four science credits)
  - Complete at least 28 credits

## **Distinguished Level of Achievement Program**

A student may earn a Distinguished Level of Achievement by successfully completing the curriculum requirements for the Foundation High School Program and the curriculum requirements for at least one endorsement, including four credits in science and four credits in mathematics to include Algebra II.

Qualification for automatic admission to Texas public colleges and universities requires a student to complete the Distinguished Level of Achievement of the Foundation High School Program. Students will not be eligible for automatic admission if they are not on the Distinguished Level of



Achievement, even if they are in the top 10% of the graduating class.

### **Performance Acknowledgements**

A student may earn a performance acknowledgement on the student's transcript for outstanding performance in one or more of the following areas: dual credit courses; bilingualism and biliteracy; College Board AP Exam performance; or outstanding performance on the PSAT, the SAT, or the ACT; or earning a nationally or internationally recognized business or industry certification or license. (Texas Administrative Code 74.14)

### **Classification of Students**

Students are classified by grade level based on their academic achievement. A student who has not earned a passing grade of at least 70 or has not met the attendance requirements will not earn credit for the course. Students will be classified at the beginning of the school year. Students may be reclassified in January, if enough credits are earned for promotion.

- Grade 9: 0 to 5.5 credits
- Grade 10: 6.0 to 12.5 credits
- Grade 11: 13.0 to 19.5 credits
- Grade 12: 20.0 credits and 4<sup>th</sup> year in high school

### **NCAA Clearinghouse**

Athletes, your first step towards an Athletic Scholarship is registering with the NCAA Clearinghouse: <http://www.eligibilitycenter.org>

Students must talk to their coaches or counselors for assistance in registering for the NCAA Clearinghouse.

If athletes want to participate in Division I or II athletics as a freshman in college, they must first register and be certified by the NCAA Initial- Eligibility Clearinghouse. If they don't register they will not be eligible to play or practice during their freshman year. It is recommended that student athletes register with the NCAA clearinghouse at the start of their junior year in high school. There is no actual registration deadline, but they must be cleared by the Clearinghouse before they can receive a scholarship or compete. The NCAA Clearinghouse will verify student eligibility. Courses must be registered with the NCAA Clearinghouse on their high school campus. Core courses taken by correspondence, credit recovery, and virtual school are not accepted by the NCAA. CBE for course credit is not accepted by the NCAA. Please check the NCAA website for what is accepted and what is not.

### **Class Ranking**

The district uses a weighted grading system to arrive at the grade point averages (GPA) to be used in determining Valedictorian, Salutatorian, and class ranking for high school students. The District shall apply the same class rank calculation method and rules for local graduation honors for all students in a graduating class, regardless of the school year in which a student first earned high school credit.

Ranking shall be reported for coursework completed in grades 9–12 for the first time in January of that school year, after the second nine-week grading period. At the conclusion of the school year, ranking shall be reported for coursework completed in grades 9-12 in June. At the beginning of the senior year, each student will receive a report showing his/her exact rank in the class. Final

senior ranking shall be computed after the third nine-week grading period of the senior year.

If the only reason course credit is withheld is due to excessive absences, the course attempt counts in the GPA calculation, but no grade (GPA) points are awarded. The course grade is posted on the student’s transcript with a \* to note that credit was denied due to excessive absences. If absences are cleared, the \* is removed and the student regains the grade (GPA) points.

Students will be ranked according to the method used to rank the grade level to which they are assigned in accordance with EIC (LOCAL).

Changes to the weighted system were approved in January 2024 for the class of 2028 and beyond (incoming 9th grade class in 2024-2025 school year and beyond). A chart comparing the system for the classes of 2024, 2025, 2026, 2027 to that for the classes of 2028 and beyond is below.

**Definitions:**

- GPA—Grade Point Average
- Class Rank—a student’s place in the class when all GPAs of courses included for ranking are listed from highest to lowest. A student’s class rank is determined by **comparing their GPA to the GPA of all other students in the same grade are ranked from highest to lowest.**

FAQ	<b>Graduating Classes of 2024, 2025, 2026, &amp; 2027 (Current 9<sup>th</sup>, 10<sup>th</sup>, 11th &amp; 12th Grades)</b>	<b>Graduating Classes of 2028 and beyond (Current 8th grade and below)</b>
<b>Which classes are included in weighted GPA?</b>	Semester grades earned in high school credit courses taken in grades 9–12 in the following subject areas only: language arts, mathematics, science, social studies, and languages other than English, as well as all Advanced Placement (AP) courses, OnRamps courses, and dual credit courses.	Semester grades earned in high school credit courses taken in grades 9–12 in the following subject areas only: language arts, mathematics, science, social studies, and languages other than English, as well as all Advanced Placement (AP) courses, dual enrollment courses, and dual credit courses available to all students in the District.

<p><b>What exclusions apply to the above?</b></p>	<p>The calculation of class rank shall exclude grades earned in summer school; languages other than English courses for which credit is earned outside the regular school day or regular school year; a distance learning course, unless the course is offered through the District as a course option along with traditional courses; a dual credit course for which credit is earned outside the regular school day or regular school year; any local credit course; any course for which a pass/fail grade is assigned; or through credit by examination, with or without prior instruction.</p> <p>Additionally, class rank calculation shall not include semester grades from a course that is retaken (no matter if a passing or failing grade is earned).</p>	<p>The calculation of class rank shall exclude grades earned in:</p> <ul style="list-style-type: none"> <li>● Summer school;</li> <li>● Any distance learning or online course, including TXVSN, unless the course is offered through the District as a course option along with traditional courses;</li> <li>● Any correspondence course;</li> <li>● Any local credit course;</li> <li>● Any course for which a pass/fail grade is assigned;</li> <li>● Any course for which credit is earned through examination with or without prior instruction;</li> <li>● An assigned remediation or tutoring course; and</li> <li>● Any course for which credit is earned outside the regular school day or regular school year.</li> </ul> <p>Additionally, class rank calculation shall not include semester grades from a course that is retaken (no matter if a passing or failing grade is earned).</p>
<p><b>What are the weights of the classes?</b></p>	<p>Tier I—Eligible AP courses and OnRamps courses</p> <p>Tier II—Eligible dual credit courses and courses locally designated as honors</p> <p>Tier III—All other eligible courses</p> <p>The District shall convert semester grades earned in eligible courses to grade points in accordance with the table contained in EIC (LOCAL).</p>	<p>Tier I—Eligible AP courses, dual credit courses, and dual enrollment courses</p> <p>Tier II—Eligible courses designated as honors</p> <p>Tier III—All other eligible courses</p> <p>The District shall convert semester grades earned in eligible courses to grade points in accordance with the table contained in EIC(LOCAL).</p>

<p><b>How is class rank determined?</b></p>	<p>Class rank is based on students' GPA using grades for each semester from courses noted above, except for the final senior rank.</p> <p>Class rank for seniors is frozen at the end of the third nine-week grading period.</p>	<p>Class rank is based on students' GPA using grades for each semester from courses noted above, except for the final senior rank.</p> <p>Class rank for seniors is frozen at the end of the third nine-week grading period.</p>
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**Credits**

Credits are one of the primary methods used to determine and document that students have met academic requirements. Credits are awarded upon completing and passing a course, while maintaining a 90% attendance rate or higher. A certain number of credits are required to graduate high school based on a student's graduation plan.

**State Credits**

In Texas, courses that provide instruction in the state-mandated Texas Essential Knowledge and Skills (TEKS) count as state credits.

**Local Credits**

Courses that Marble Falls High School offers that do not have a set of state standards are counted for local credits. Local credits count above and beyond state credits. Only two local credits can count towards graduation requirements.

**No Pass/No Play**

Students who are involved in extracurricular activities must earn a grade of 70 or better at each UIL reporting period in order to be eligible to participate in the extracurricular activity. Students enrolled in Honors, Advanced Placement, or OnRamps courses are eligible to receive an eligibility waiver one time per semester as long as the grade earned in the Honors, Advanced Placement, or OnRamps course is not lower than 60 and the student has passed all other courses during the grading period.

**Dropping a class**

Students who drop a class after the first 4 weeks of the first 6 weeks period of the semester will remain ineligible for the last 3 weeks of the first 9 weeks grading period as if they had received a failing grade unless they receive an exception from the Principal. Students also lose credit for the course they add *unless an exception is granted by the Principal*. This course will count as an "I" (Incomplete) for the semester because time requirements cannot be met. No grade points will be attached to the course, so it will affect a student's GPA the same way an "F" affects it. Students who drop a course to move to the credit recovery lab will be ineligible for the first 3 weeks of the next 9 weeks. This rule only affects a student when he/she drops a course and adds an entirely different course – for example, dropping Algebra 2 and adding Art. This does not affect a student when he/she simply changes levels of the same course – for example dropping from Honors to on-level.

**Physical Education**

Students may earn state credit toward their physical education requirements during their first year of cheerleading, marching band, drill team, dance or Show Choir. State PE credits may also be earned in athletics.

# MARBLE FALLS HIGH SCHOOL GRADUATION PLANS

For students who enter 9<sup>th</sup> grade during the 2014-15 school year and beyond.

Subject Area	<u>Foundation High School Program with Endorsement</u>
<b>English Language Arts</b>	<b>4 credits</b> English I or English I for Speakers of Other Languages (ESOL I) English II or English II for Speakers of Other Languages (ESOL II) English III English IV
<b>Mathematics</b>	<b>4 credits</b> Algebra I Geometry Two additional math credits
<b>Science</b>	<b>4 credits</b> Biology IPC, Chemistry, or Physics and two additional Science credits
<b>Social Studies and Economics</b>	<b>3 credits (*4 credits are recommended)</b> World Geography (1 credit) <i>or</i> World History (1 credit) US History (1 credit) US Government (0.5 credit) Economics (0.5 credit) *MFHS strongly recommends students take four credits of Social Studies to include World Geography and World History. Many universities require 4 years for admission.
<b>Languages Other Than English</b>	<b>2 credits</b> Must be two levels in the same foreign language
<b>Physical Education</b>	<b>1 credit</b> Physical Education or approved substitute (Students may earn up to 4.0 credits in athletics toward state graduation requirements.)
<b>Fine Arts</b>	<b>1 credit</b> From any state-approved fine arts course in Art, Dance, Band, Choir, Theater Arts, or Floral Design
<b>Electives</b>	<b>9 credits (2.0 credits may be local elective credits)</b> Local credits are denoted in the course descriptions that follow
<b>TOTAL 28 CREDITS</b>	
<p><b><u>Endorsement</u></b></p> <p>Students must complete an Endorsement in one of the following areas:</p> <ul style="list-style-type: none"> <li>Arts and Humanities</li> <li>Public Services</li> <li>Multidisciplinary</li> <li>Business and Industry</li> <li>STEM</li> </ul>	
Please see Marble Falls ISD Graduation Program of Study (POS) suggestion sheet, which includes Marble Falls ISD Endorsement Pathways.	
<p><b><u>Distinguished Level of Achievement</u></b></p> <p>To earn the Distinguished Level of Achievement students must complete the Foundation High School Program with Endorsement and Algebra 2.</p>	

## Marble Falls ISD Graduation Program of Study (POS) Suggestion Sheet

This POS suggestion sheet should be used with course catalog & counselor meetings for course descriptions, prerequisites, and other information.

Unless stated specifically, endorsement requirements are in addition to foundation plan requirements.

All courses in **RED** throughout this guide are considered Advanced CTE courses.

*CTE Non-Discrimination Clause: MFISD does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.*

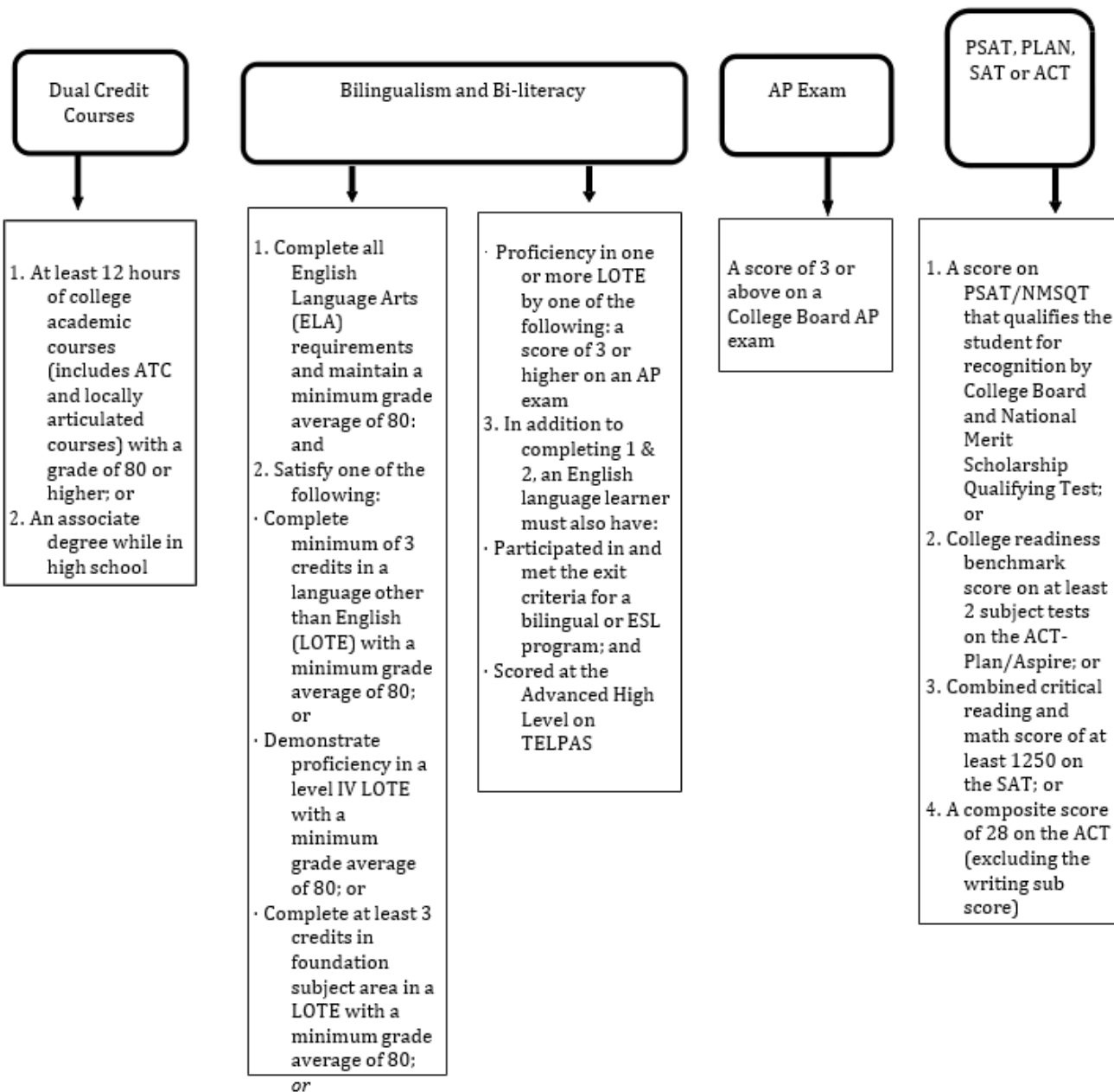
<b>Arts &amp; Humanities Endorsement</b>					
<i>Fine Arts POS Options (from one or two Disciplines)</i>			<b>Humanities Options</b>		
<b>Fine Arts: Art</b>			<b>Fine Arts: Choir Discipline</b>		
1	Art I	9-12		Concert Men and Women	9-12
2	Art II Drawing, Art II Ceramics	10-12		Show Choir	9-12
3	Art III Drawing, Art III Ceramics	11-12		Acappella Choir II - IV	10-12
4	Art IV Drawing, Art IV Ceramics	12		Chorale II - III	10-12
3/4	AP Studio Art	11-12		Chamber Singers	10-12
<b>Fine Arts: Music</b>			<b>Fine Arts: Dance/Drill Team</b>		
	Music Band I - IV	9-12		Dance I - IV	9-12
	Applied Music	11-12		Drill Team I - IV	9-12
	Jazz Band I - IV	9-12		Color Guard I - IV	9-12
<b>Fine Arts: Theatre Discipline</b>			<b>Humanities Options</b>		
			<b>LOTE POS (4 credits - 4 of same or 2 of each)</b>		
				Spanish I - V	8-12
				ASL I - II	9-12
<b>STEM Endorsement</b>			<b>Social Studies (5 credits)</b>		
<i>Students must complete Algebra II, Chemistry and Physics for this Endorsement.</i>					
<b>Engineering Foundations - Engineering Focus (Foundation Requirements + 4 cr)</b>			<b>Engineering Foundations - Robotics Focus (Foundation Requirements + 4 cr)</b>		
1	Principles of Applied Engineering	8	1	Principles of Applied Engineering	8
1	Engineering Essentials (PLTW)	9-12	1	Engineering Essentials (PLTW)	9-12
2	Introduction to Eng, Design (PLTW)	10-12	2	Robotics I	9-12
3	Aerospace Engineering (PLTW)	11-12	3	Robotics II	10-12
4	Scientific Research & Design (Sci)	12	4	Scientific Research & Design (Sci)	12
4	Practicum in STEM (2)	12	4	Practicum in STEM (2)	12
Possible Cert: AutoDesk Associate - AutoCAD			Possible Cert: FANUC Robotics Operator		
<i>Any combination of 3 Engineering Foundations courses for 4 or more credits will complete the Engineering Foundations Program of Study.</i>					
<b>Science POS (+ 2 Sci cr)</b>			<b>Math POS (Foundation Requirements + 2 cr)</b>		
				Precalculus	10-12
				AP Calculus AB	11-12
				AP Statistics	11-12
				Stats and Business Decision Making	11-12
<b>Multidisciplinary Endorsement</b>					
<b>4x4 (16 credits)</b>			<b>AP/Dual Credit (4 credits)</b>		
Total credits required for graduation must include:			Any AP/Dual Credit courses from English, Math, Science		
4 credits from each of the 4 core areas			Social Studies, LOTE, or Fine Arts		
Including English IV; Chemistry and/or Physics			<b>College &amp; Career (4 courses)</b>		
Other Math, Sci., Social Studies (several options available)			Any combination of <b>Advanced CTE</b> courses and/or AP or Dual Credit courses from any Endorsement		

<b>Animal Science (4 credits)</b>			<b>Business &amp; Industry Endorsement</b>			<b>Entrepreneurship (4 credits)</b>		
1	Principles of Ag, Food & Nat. Res.	8-12	1	Principles of Construction	9-12	1	Principles of Bus, Mktg & Finance	9-12
2	Equine (.5) / Small Animal (.5)	9-12	2	Construction Tech I (2)	10-12	2	Entrepreneurship	10-12
2/3	Livestock Production	9-12	3	Construction Tech 2 (2)	11-12	3/4	Statistics & Bus. Dec. Making (Math)	11-12
3/4	Veterinarian Med Applications	11-12	4	Practicum in Const Tech (2)	12	3	Practicum in Business Mgmt (2)	11
3/4	Advanced Animal Science (Sci)	11-12	Possible Cert: NCCER Core, NCCER Carpentry Level 1			4	Practicum in Entrepreneurship (2)	12
Possible Cert: Elanco Fundamentals of Animal Science, Elanco Vet Med Applications			<b>Digital Communications (4 credits)</b>			Possible Cert: Entrepreneurship & Small Business		
<b>Plant Science (4 credits)</b>			1	Principles of Arts, A / V & Comm.	8-12	<b>Travel, Tourism &amp; Attractions (4 credits)</b>		
1	Principles of Ag, Food & Nat. Res.	8-12	2	A / V Production I	9-12	1	Principles of Hospitality & Tourism	9-12
1/2/3/4	Floral Design (Fine Arts Credit)	9-12	3	A / V Production II	10-12	2	Travel & Tourism Mgmt	10-12
2/3/4	Advanced Floral Design	10-12	4	Practicum in A/V Production (2)	11-12	2/3	Entrepreneurship	10-12
2	Greenhouse Operation & Prod.	9-12	5	Practicum in A/V Production (2)	12	4	Practicum in Hospitality Services (2)	12
3	Horticulture Science	9-12	Possible Cert: Adobe Premier Pro			Possible Cert: Travel & Tourism		
4	Advanced Plant & Soil Science (Sci)	11-12	<b>Graphic Design &amp; Interactive Media (4 credits)</b>			<b>Marketing and Sales (4 credits)</b>		
4	Scientific Research & Design	12	1	Principles of Arts, A / V & Comm.	8-12	1	Principles of Bus, Mktg & Finance	9-12
Possible Cert: TSFA Floral Skills Knowledge & Level 1 & BASF Plant Science			2	Graphic Design & Illustration I	9-12	2	Sports Mktg (.5) / Social Med Mktg(.5)	10-12
<b>Aq Tech &amp; Mech Systems: Welding (4 credits)</b>			3	Graphic Design & Illustration II	10-12	2	Entrepreneurship	10-12
1	Principles of Ag, Food & Nat. Res.	8-12	4	Practicum in Graphic Des & Illust (2)	11-12	3/4	Statistics & Bus. Dec. Making (Math)	11-12
1	Ag Mechanics & Metal Technology	9-12	5	Practicum in Graphic Des & Illust (2)	12	4	Practicum in Entrepreneurship (2)	12
2	Ag Structures Design & Fabrication	10-12	Possible Cert: Adobe Illustrator			Possible Cert: Student Social Media Marketing		
3	Ag Equipment Design & Fabrication	11-12	<b>Graphic Dsgn &amp; Interactive Media: Yearbook (4 credits)</b>					
3	Ag Power Systems (2)	11-12	1	Principles of Arts, A / V & Comm.	8-12			
4	Practicum in Ag: Welding (2)	12	2	Commercial Photography 1 (YB 1)	9-12			
Possible Cert: AWS D1.1 & D9.1			3	Commercial Photography 2 (YB 2)	10-12			
<b>Teaching and Training (4 credits)</b>			4	Prac. In Com. Photography (2) (YB 3)	11-12			
1	Principles of Educ. & Training	9-10	5	Prac. In Com. Photography (2) (YB 4)	12			
2	Human Growth & Development	10-12	Possible Cert: Adobe Photoshop					
3	Instructional Practices (2)	11-12	<b>Public Services Endorsement</b>					
4	Practicum in Educ. & Training (2)	12	<b>Diagnostic &amp; Therapeutic Services (4 credits)</b>			<b>Diagnostic &amp; Therapeutic Services (4 credits)</b>		
Course 3 & 4 - Dual Credit option			1	Principles of Health Science	9-12	3/4	Pathophysiology (Sci)	11-12
Possible Cert: Educational Aide I			2	Medical Terminology	10-12	4	Practicum in Hlth Science - CCMA (2)	12
			3/4	Health Science Theory	10-12	4	Practicum in Hlth Science - EMT (2)	12
			3/4	Anatomy & Physiology (Sci)	11-12	4	Pharmacology - Pharm Tech	12
			3/4	Medical Microbiology (Sci)	11-12	Possible Cert: Cert. Clinical Medical Assistant, EMT Basic & Pharmacy Tech		
			Possible Cert: BLS, CPR					

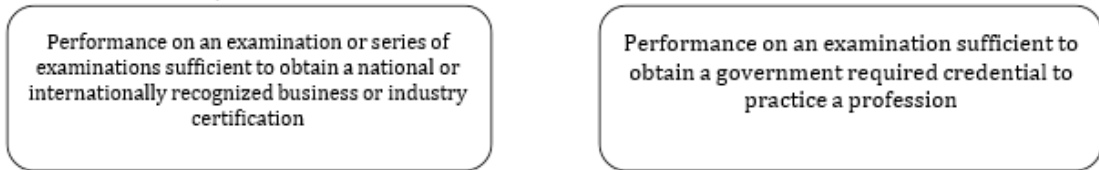


**PERFORMANCE ACKNOWLEDGEMENTS**

A student may earn a performance acknowledgement for outstanding performance in/on one of the following:



A student may earn a performance acknowledgement for earning a nationally or internationally recognized business or industry certification or license with one of the following:



# ENGLISH & LANGUAGE ARTS

## English I

**Prerequisites: None**

**MFHS Number: EN10MY**

**PEIMS Number: 03220100**

In English I, students learn to apply their understandings of reading and writing processes to a variety of genres including literary (poetry, drama, imaginative stories) and informational (expository and persuasive, with focus on expository). Students will study both classic and contemporary texts with an emphasis on theme development, characterization, creative nonfiction, and the relationships between classic texts and contemporary ideas. Through the use of multiple learning and instructional strategies, students acquire not only the knowledge they need but also the confidence in their own abilities to learn and to communicate effectively in real-world situations. This course will require an End of Course Exam.

## English for Speakers of Other Languages I

**Prerequisite: Emergent Bilingual/Newcomers only**

**MFHS Number: EN11MY**

**PEIMS Number: 03200600**

This course develops an understanding of English and provides explicit instruction for developing English Language acquisition skills. Students engage in numerous language and culture activities that build on their prior knowledge and skills in order to strengthen their listening, speaking, reading, and writing skills. Note: English for Speakers of other Languages (ESOL) I may be a substitute for English I. This course will require an End of Course Exam.

## Honors English I

**Prerequisites: Honors/AP Contract required to be signed by Parents/Guardian and Student**

**A summer project may be assigned for this course.**

**MFHS Number: EN10HY**

**PEIMS Number: 03220100**

Honors English I is designed for students who wish to have a more challenging and rigorous English I experience. In addition to emphasis on areas listed above, Honors English I students will be afforded opportunities to engage in lengthier and more challenging reading and writing experience with more sophisticated levels of instruction and more advanced skill work. Honors English I students are self-directed, good time managers, and motivated. Students will engage in literary analysis and creative research projects on their own time. Honors English I prepares students for AP English Literature and AP English Language. A summer project may be assigned in Honors English I. This course will require an End of Course Exam.

## English II

**Prerequisites: None**

**MFHS Number: EN20MY**

**PEIMS Number: 03220200**

In English II, students learn to apply their understandings of reading and writing processes to a variety of genres including literary (poetry, drama, imaginative stories) and informational (expository and persuasive, with an emphasis on persuasive). Students will study both classic and contemporary texts with an emphasis on the author's purpose and motivations, archetypal patterns, and critical lenses for text studies. Through the use of multiple learning and instructional strategies, students will continue to acquire not only the knowledge they will need but also the confidence in their own abilities to learn and to communicate effectively in real-world situations. This course will require an End of Course Exam.

### **English for Speakers of Other Languages II**

**Prerequisite:** ESOL I or Emergent Bilingual/Newcomer only

**MFHS Number:** EN21MY

**PEIMS Number:** 03200700

This course develops an increased understanding of English and provides explicit instruction for developing English Language acquisition skills. Students engage in numerous activities that build on their prior knowledge and skills in order to strengthen their listening, speaking, reading and writing skills. Note: English for Speakers of other Languages (ESOL) II may be a substitute for English II. This course will require an End of Course Exam.

### **Honors English II**

**Prerequisites:** Honors/AP Contract required to be signed by Parents/Guardian and Student

**A summer project may be assigned for this course.**

**MFHS Number:** EN20HY

**PEIMS Number:** 03220200

Honors English II engages students in learning all the essential knowledge and skills of English II while providing greater depth. This enhanced curriculum continues to build the tools necessary to succeed in AP English Language and Literature classes. Summer reading is required to provide an avenue for Honors students to both activate academic skills during the summer and to launch academic progress at the beginning of the school year. Independent reading in Honors courses is structured to support students' interaction with a text through the application of close reading analysis with Honors and AP reading. This course will require an End of Course Exam.

### **English III**

**Prerequisites:** None

**MFHS Number:** EN30MY

**PEIMS Number:** 03220300

In English III, students strengthen skills in reading analysis and communication. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze text, write in multiple modes, research, listen, and speak. This course focuses on American fiction and nonfiction. Students research historical and contemporary texts as they articulate the origins and impact of the ideas and realities of America. Students are expected to articulate personal convictions and propose solutions to social issues. Writing in a variety of modes - personal essays, opinions and editorials, credos, reflective self-evaluation, speeches, dramatic scripts, surveys, literary analysis, and research projects - students expand their skills in communicating well through written language. Through the use of multiple learning and instructional strategies, students acquire not only the knowledge they need but also the confidence in their own abilities to learn and to communicate effectively in real-world situations.

### **AP English III (AP English Language and Composition)**

**Prerequisites:** Honors/AP Contract required to be signed by Parents/Guardian and Student

**A summer project may be assigned for this course.**

**MFHS Number:** EN30AY

**PEIMS Number:** A3220100

The AP English Language and Composition course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in nonfiction texts, including graphic images as forms of text, from many disciplines and historical periods. AP English III Language and Composition students are self-directed, good time managers, and highly motivated. This course is a college course taught in high school using college texts. Students are encouraged to take the AP English Language and

Composition exam for college credit. Summer reading is required as an avenue for students to activate academic skills during the summer and to launch academic progress at the beginning of the school year. AP English III Language and Composition is a college level course.

#### **English IV**

**Prerequisites: None**

**MFHS Number: EN40MY**

**PEIMS Number: 03220400**

In English IV, students strengthen skills in reading analysis and communication. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze text, write in multiple modes, research, listen, and speak. This course capitalizes on the confidence and expertise students have gained as interpreters and analyzers of texts by introducing them to multiple lenses through which to view text. English IV focuses on the traditions and ideals of British Literature. Students are asked to broaden their understanding and their interpretive skills by thinking deeply about themes and ideas from multiple perspectives. Students apply the theories of criticism to their own reading and interpretation of both fiction and nonfiction texts. Through the use of multiple learning and instructional strategies, students acquire not only the knowledge they need but also the confidence in their own abilities to learn and to communicate effectively in real-world situations.

#### **AP English IV (AP English Literature and Composition)**

**Prerequisites: Honors/AP Contract required to be signed by Parents/Guardian and Student. A summer project may be assigned for this course.**

**MFHS Number: EN40AY**

**PEIMS Number: A3220200**

The AP English Literature and Composition course aligns to an introductory college-level literary analysis course. The course engages students in the 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, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. AP English III Literature and Composition students are self-directed, good time managers, and highly motivated. This course is a college course taught in high school using college texts. Students are encouraged to take the AP English Literature and Composition exam for college credit. Summer reading is required to provide an avenue for students to activate academic skills during the summer and to launch academic progress at the beginning of the school year. AP English IV Literature and Composition is a college level course.

#### **UT OnRamps Rhetoric and Writing (English III)**

**Prerequisites: English I & II**

**MFHS Number: EN30UY**

**PEIMS Number: 03220300**

This two-semester, six-credit writing intensive sequence features a fall RHE 306 "Research & Writing" course in argumentation that situates rhetoric as an art of civic discourse, followed by the spring semester RHE 309K "Rhetoric of American Identity" featuring a series of case studies in race, gender, and ethnicity. Over the two courses, students research and analyze the various positions held in any public debate and learn to advocate their own positions effectively through a process of drafts and revisions. In the fall, students explore the ethics of argumentation and what it means to fairly represent someone with whom they disagree. By the spring, students are ready to analyze and compose arguments about American identity and identity formation, both personal and cultural. The goal is to foster students' abilities to analyze arguments presented by others and to write sound and effective arguments of their own. With these abilities, students are more equipped to contribute meaningfully to their academic, professional, personal, and civic lives. This course is designed to be a dual enrollment college level course. However, students will have the opportunity to choose if they want to include their grade on their college transcript for this course. There is a tuition cost for UT OnRamps courses.

**Transferability**

TCCNS: ENGL 1301 & 1302

UT Course Codes: RHE 306 & 309K

6 College Credits (3 per semester)

**UT OnRamps Rhetoric and Writing (English IV)**

**Prerequisites:** English I - III

**MFHS Number:** EN40UY

**PEIMS Number:** 03220400

This two-semester, six-credit writing intensive sequence features a fall RHE 306 "Research & Writing" course in argumentation that situates rhetoric as an art of civic discourse, followed by the spring semester RHE 309K "Rhetoric of American Identity" featuring a series of case studies in race, gender, and ethnicity. Over the two courses, students research and analyze the various positions held in any public debate and learn to advocate their own positions effectively through a process of drafts and revisions. In the fall, students explore the ethics of argumentation and what it means to fairly represent someone with whom they disagree. By the spring, students are ready to analyze and compose arguments about American identity and identity formation, both personal and cultural. The goal is to foster students' abilities to analyze arguments presented by others and to write sound and effective arguments of their own. With these abilities, students are more equipped to contribute meaningfully to their academic, professional, personal, and civic lives. This course is designed to be a dual enrollment college level course. However, students will have the opportunity to choose if they want to include their grade on their college transcript for this course. There is a tuition cost for UT OnRamps courses.

**Transferability**

TCCNS: ENGL 1301 & 1302

UT Course Codes: RHE 306 & 309K

6 College Credits (3 per semester)

**Dual Credit English IV (British Literature) - for students who completed UT OnRamps Rhetoric and Writing (ENGL 1301/ENGL 1302)**

**Prerequisites:** Appropriate TSI placement score met; UT ONRamps Rhetoric and Writing (ENGL 1301/ENGL 1302)

**MFHS Number:** EN42AS, EN42BS

**PEIMS Number:** 03220400 (Fall)

**PEIMS Number:** 03221800 (Spring)

A survey of the development of British literature from the Anglo-Saxon period to the Eighteenth Century. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions. This course fulfills the Language, Philosophy, and Cultural foundational component areas of the core, and addresses the following required objectives: Critical Thinking, Communication, Social Responsibility, and Personal Responsibility. This class counts for high school English IV credit. Students can earn college credit for ENGL 2322 and ENGL 2323. Participation in this course for the full year is required : English IV credit will be awarded in the Fall (ENGL 2322), and Independent Study in English credit will be awarded in the Spring (ENGL 2323). The course will be offered through a higher education partnership and a higher education instructor online. An MFISD staff member will be designated as a facilitator and assist in monitoring students progress in the course, but the college instructor will assign all grades and communicate regarding grades. There is a tuition cost for dual credit courses.

**Transferability**

TCCNS: ENGL 2322 & 2323

6 College Credits (3 per semester)

# MATHEMATICS

## **Algebra I**

**Prerequisites: Grade 8 Mathematics (or its equivalent)**

**MFHS Number: MA10MY**

**PEIMS Number: 03100500**

Algebra I students will learn about functional relationships through a problem solving lens that focuses on real-life situations. Topics of study include, but are not limited to the following: linear functions, exponential functions, systems of linear equations, systems of linear inequalities, quadratic functions, and real number computation. This course will require an End of Course Exam.

## **Geometry**

**Prerequisites: Algebra I**

**MFHS Number: MA20MY**

**PEIMS Number: 03100700**

Geometry students will learn how shapes and figures describe and represent our environment when coupled with algebra, geometric construction, and formal proof. Topics of study include, but are not limited to the following: relationships in parallel and perpendicular lines, area and perimeter on the coordinate plane, volume and surface area of three-dimensional solids, properties of triangles, similarity and congruence through transformations, an introduction to trigonometry, and properties of quadrilaterals and circles. Students will also learn definitions, postulates, and theorems that help describe geometric relationships. Students will also problem solve using area and volume, trigonometry, probability, and similarity.

## **Honors Geometry**

**Prerequisites: Algebra I and Honors/AP Contract required to be signed by Parents/Guardian and Student**

**MFHS Number: MA20HY**

**PEIMS Number: 03100700**

Honors Geometry students will expand on concepts covered in regular Geometry with an intense focus on high level application, problem solving, and higher order thinking processes. Students will also develop strategies that prepare them for future Advanced Placement math courses.

## **Mathematical Models with Applications (MMA)**

**Prerequisites: Algebra I (Not recommended after receiving Algebra II credit)**

**MFHS Number: MA40MY**

**PEIMS Number: 03102400**

Math Models provides a path for students to succeed in Algebra II. Students learn to apply mathematics through experiences in personal finance, science, engineering, fine arts, and social sciences. Other topics students will learn about include the following: budgeting, personal taxes, banking, loan amortizations, analyzing credit card options, home and car finance, insurance rates, and investment options (stocks, bonds, annuities, retirement plans). Students will also revisit some algebra and geometry concepts. This course will not meet the 4<sup>th</sup> math credit required for an endorsement.

## **Algebra II**

**Prerequisites: Algebra I**

**MFHS Number: MA30MY**

**PEIMS Number: 03100600**

This course is taught with a functional approach which gives students a sound foundation for either technical or non- technical degrees in college. Algebra II expands on the skills learned in Algebra I and explore these skills with linear, quadratic, square root, polynomial, rational, exponential, logarithmic, cubic, and absolute value functions. Algebra II students will also study the attributes of these functions and their inverses. Students can also expect to explore systems of equations and complex numbers using various methods.

## **OnRamps College Algebra - Algebra 2 Honors**

**Prerequisites: Algebra I and Geometry, (recommended for students who took Algebra I in 8th grade, Honors Geometry, replaces Algebra II for 11th grade student)**

**MFHS Number: MA30UY**

**PEIMS Number: 3100600 - Algebra II**

In this course, students deepen their critical thinking skills and develop their ability to persist through challenges as they explore function families: Linear, Absolute Value, Quadratic, Polynomial, Radical, Rational, Exponential, and Logarithmic. Students analyze data algebraically and with technology while developing their knowledge of properties of functions, matrices and systems of equations, and complex numbers. Students will experience high-quality curriculum designed by the faculty at The University of Texas at Austin. The course encourages students to take an active role in the construction of their learning. This learning will be accomplished by abstraction, generalization, problem-solving, and modeling. This course is designed to be a dual enrollment college level course. However, students will have the opportunity to choose if they want to include their grade on their college transcript for this course. There is a tuition cost for UT OnRamps courses.

### **Transferability**

TCCNS: MATH 1314

UT Course Codes: M 301

3 College Credits

## **OnRamps College Algebra - 4th Math for Seniors**

**Prerequisites: Algebra 2**

**MFHS Number: MA90UY**

**PEIMS Number: 03102500 - Independent Study in Mathematics (recommended for students taking Algebra 1 in 9th grade and need a 4th Math as a 12th grade student)**

In this course, students deepen their critical thinking skills and develop their ability to persist through challenges as they explore function families: Linear, Absolute Value, Quadratic, Polynomial, Radical, Rational, Exponential, and Logarithmic. Students analyze data algebraically and with technology while developing their knowledge of properties of functions, matrices and systems of equations, and complex numbers. Students will experience high-quality curriculum designed by the faculty at The University of Texas at Austin. The course encourages students to take an active role in the construction of their learning. This learning will be accomplished by abstraction, generalization, problem-solving, and modeling. This course is designed to be a dual enrollment college level course. However, students will have the opportunity to choose if they want to include their grade on their college transcript for this course. There is a tuition cost for UT OnRamps courses.

### **Transferability**

TCCNS: MATH 1314

UT Course Codes: M 301

3 College Credits

### **Statistics and Business Decision Making**

**Prerequisites: Algebra 2**

**MFHS Number: MA45CY**

**PEIMS Number: 13016900**

Statistics and Business Decision Making is an introduction to statistics and the application of statistics to business decision making. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid. This course will not prepare you for the AP Statistics exam. *This course satisfies a 4th Math credit for the Foundation High School Graduation Plan with Endorsement therefore it counts in MFISD GPA/class rank.*

### **Pre-Calculus**

**Prerequisites: Geometry or Honors Geometry; Algebra 2 or OnRamps Algebra 2**

**MFHS Number: MA50MY**

**PEIMS Number: 03101100**

Pre-Calculus is a detailed study of the following functions: linear, quadratic, polynomial, rational, exponential, logarithmic, and trigonometric. This course also covers sequences, series, vectors, conics, and introductory parametric functions and polar functions. This course meets the minimum prerequisite requirement for AP Calculus AB. This course is not recommended as a prerequisite for AP Calculus.

### **OnRamps Discovery Pre-Calculus**

**Prerequisites: Geometry or Honors Geometry; Algebra 2 or OnRamps Algebra 2**

**MFHS Number: MA50UY**

**PEIMS Number: 03101100**

Students will deepen and extend their knowledge of functions, graphs, and equations from their high school algebra and geometry courses so that they can successfully work with the concepts in a rigorous university-level calculus course. This course is designed to push students well beyond “drill and kill” type exercises, with an emphasis on unpacking mathematical definitions and making logical arguments to their peers. This course is designed to be a dual enrollment college level course. However, students will have the opportunity to choose if they want to include their grade on their college transcript for this course. There is a tuition cost for UT OnRamps courses.

#### **Transferability**

TCCN: Math 2312

UT Course Codes: M 305G

3 College Credits

### **AP Calculus AB**

**Prerequisites: Pre-Calculus or OnRamps Discovery Pre-Calculus; Honors/AP Contract required to be signed by Parents/Guardian and Student. A summer project may be assigned for this course.**

**MFHS Number: MA72AY**

**PEIMS Number: A3100101**

AP Calculus AB covers advanced mathematical topics including elementary differential and integral calculus. This course is approximately equivalent to a one-semester Calculus course at the college level. It is designed to prepare students for the College Board Advanced Placement Exam. AP Calculus AB requires students to have strong Algebra and Pre-Calculus skills. Topics covered include limits and continuity, derivatives, applications of derivatives, definite and indefinite integrals, applications of integrals, and differential equations. AP Calculus AB is a college level course.



### **AP Statistics**

**Prerequisites:** Algebra 2 or Honors Algebra 2; Honors/AP Contract required to be signed by Parents/Guardian and Student

**MFHS Number:** MA62AY

**PEIMS Number:** A3100200

This introductory course is to serve students preparing for any field who want to analyze statistical data or apply statistical inference. Students will study elementary probability, estimation, descriptive statistics, measures of central tendency, and hypothesis testing. This is an advanced placement course taught on the college level. The student should expect to spend more time for daily preparation. Students can obtain college credit through satisfactory completion of the advanced placement test. AP Statistics is a college level course.

## **SCIENCE**

### **Integrated Physics and Chemistry**

**Prerequisites:** None

**MFHS Number:** SC20MY

**PEIMS Number:** 03060201

In Integrated Physics and Chemistry, students conduct laboratory and field investigations, use engineering practices, use scientific practices during investigation, and make informed decisions using critical thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry in the following topics: force, motion, energy, and matter.

### **Biology**

**Prerequisites:** None

**MFHS Number:** SC10MY

**PEIMS Number:** 03010200

Students in Biology focus on patterns, processes, and relationships of living organisms through four main concepts: biological structures, functions, and processes; mechanisms of genetics; biological evolution; and interdependence within environmental systems. Students are expected to gain sufficient knowledge of the scientific and engineering practices across the disciplines of science to make informed decisions using critical thinking and scientific problem solving. This course will require an STAAR End of Course Exam.

### **Honors Biology**

**Prerequisites:** Honors/AP Contract required to be signed by Parents/Guardian and Student

**MFHS Number:** SC10HY

**PEIMS Number:** 03010200

This course extends the biology concepts and TEKS with an emphasis on preparing students to take AP Biology. Students in Biology focus on patterns, processes, and relationships of living organisms through four main concepts: biological structures, functions, and processes; mechanisms of genetics; biological evolution; and interdependence within environmental systems. Students are expected to gain sufficient knowledge of the scientific and engineering practices across the disciplines of science to make informed decisions using critical thinking and scientific problem solving. This course will require an STAAR End of Course Exam.

### **AP Biology (offered every year)**

**Prerequisites:** Biology or Honors Biology; Chemistry or Honors Chemistry; Honors/AP Contract required to be signed by Parents/Guardian and Student

**MFHS Number:** SC12AY

**PEIMS Number:** A3010200

AP Biology is equivalent to a college freshman biology class. The curriculum is based on national standards set by The College Board. The course is designed for students who want a greater depth of understanding of biological concepts and who want more extensive laboratory experience. Extensive lab work and individual readings will be required. The class will also complete 8-13 required College Board labs. Topics to be covered include molecules and cells, genetics and evolution, and organisms and populations. AP Biology is a college level course requiring individual work. Students will have the opportunity to take the Advanced Placement Exam upon completion of the course.

### **Chemistry**

**Prerequisites:** 1 credit of high school science; Algebra I

**MFHS Number:** SC30MY

**PEIMS Number:** 03040000

In Chemistry, students conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include characteristics of matter, use of the Periodic Table, development of atomic theory, chemical bonding, chemical stoichiometry, gas laws, solution chemistry, acid-base chemistry, thermochemistry, and nuclear chemistry. Students investigate how chemistry is an integral part of our daily lives. By the end of Grade 12, students are expected to gain sufficient knowledge of the scientific and engineering practices across the disciplines of science to make informed decisions using critical thinking and scientific problem solving.

### **UT OnRamps College Chemistry I - Principles of Chemistry I & Introduction to Chemical Practices (lab)**

#### **SOPHOMORES**

**Prerequisites:** Chemistry or Honors Chemistry; Algebra I

**MFHS Number:** SC30UY

**PEIMS Number:** 03040000

The Principles of Chemistry I course addresses the nature of matter, energy, chemical reactions, and chemical thermodynamics. The course reviews descriptive chemistry of matter in the natural world as well as compositional and reaction stoichiometry of chemical compounds. Throughout the course, students learn to think like scientists by exploring the underlying theoretical foundations of chemistry, making intuitive arguments for how the world works, and supporting those arguments with quantitative measures. Built with an intention to engage students from a variety of backgrounds, students in the course will learn how to successfully study science by organizing their learning around mastery and ownership of materials. This course is designed to be a dual enrollment college level course. However, students will have the opportunity to choose if they want to include their grade on their college transcript for this course. There is a tuition cost for UT OnRamps courses.

#### **Transferability**

TCCNS: CHEM1311 + CHEM 1111.

UT Course Codes: CH301 + CH104M

4 College Credits (3 for lecture, 1 for lab)

### **UT OnRamps College Chemistry I - Principles of Chemistry I & Introduction to Chemical Practices (lab)**

**Prerequisites: Chemistry or Honors Chemistry; Algebra I**

**JUNIORS & SENIORS**

**MFHS Number: SC36UY**

**PEIMS Number: 13037200**

The Principles of Chemistry I course addresses the nature of matter, energy, chemical reactions, and chemical thermodynamics. The course reviews descriptive chemistry of matter in the natural world as well as compositional and reaction stoichiometry of chemical compounds. Throughout the course, students learn to think like scientists by exploring the underlying theoretical foundations of chemistry, making intuitive arguments for how the world works, and supporting those arguments with quantitative measures. Built with an intention to engage students from a variety of backgrounds, students in the course will learn how to successfully study science by organizing their learning around mastery and ownership of materials. This course is designed to be a dual enrollment college level course. However, students will have the opportunity to choose if they want to include their grade on their college transcript for this course. There is a tuition cost for UT OnRamps courses.

**Transferability**

TCCNS: CHEM1311 + CHEM 1111.

UT Course Codes: CH301 + CH104M

4 College Credits (3 for lecture, 1 for lab)

**UT OnRamps College Chemistry II - Principles of Chemistry II & Introduction to Chemical Practices II (lab)**

**Prerequisites: UT OnRamps Chemistry I or AP Chemistry or equivalent**

**MFHS Number: SC37UY**

**PEIMS Number: 13037210**

The Principles of Chemistry II course continues the development and application of concepts, theories, and laws underlying chemistry that were introduced in the first Chemistry course. OnRamps Chemistry II will extend and apply prior learning to concepts like chemical equilibria, kinetics, water and nuclear chemistry, electrochemistry, and more. Students will dive even deeper during labs, with a focus on analytical laboratory techniques, modern chemistry instrumentation – such as spectrophotometers and voltage probes – and a variety of experimental protocols of how to analyze and identify unknowns. This course is designed to be a dual enrollment college level course. However, students will have the opportunity to choose if they want to include their grade on their college transcript for this course. There is a tuition cost for UT OnRamps courses.

**Transferability**

TCCNS: CHEM1312 + CHEM 1112

UT Course Codes: CH302 + CH104N

4 College Credits (3 for lecture, 1 for lab)

**Medical Microbiology (offered every other year - even years)**

**Prerequisites: Biology and Chemistry**

**MFHS Number: SC65CY**

**PEIMS Number: 13020700**

Medical Microbiology is a college preparatory and laboratory-oriented course that will provide opportunities for the student to identify and culture microorganisms that are of interest in the medical field. The student will learn lab techniques for working safely with microorganisms and will investigate the physiological effects of various microorganisms on the human body. Students will develop knowledge and skills related to disease prevention by learning the chain of infection, asepsis, and standard precautions. Pathogenic and nonpathogenic organisms will be identified to assist in the understanding of specific diseases, causative agents, and treatment options. The course is intended to provide high school exposure to microbiology concepts for the student who is particularly interested in a health-related career track or for the student who is interested in the biological sciences. *This course satisfies a 4th Science credit for the Foundation High School Graduation Plan with Endorsement therefore it counts in MFISD GPA/class rank.*

### **Pathophysiology (offered every other year - odd years)**

**Prerequisites: Biology and Chemistry**

**MFHS Number: SC55CY**

**PEIMS Number: 13020800**

Pathophysiology is a college preparatory and laboratory-oriented course that will provide opportunities for the student to study the nature of disease, its causes, and the various effects diseases have on the human body. The student will apply proper lab techniques to the study of healthy and diseased tissue and be able to recognize samples of each. The course is intended for the student who is particularly interested in a health-related career track or for the student who is interested in the biological sciences. Students will study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of diseases. Students will differentiate between normal and abnormal physiology. *This course satisfies a 4th Science credit for the Foundation High School Graduation Plan with Endorsement therefore it counts in MFISD GPA/class rank.*

### **Physics**

**Prerequisites: Algebra I**

**Recommended Co-Requisite: Geometry**

**MFHS Number: SC40MY**

**PEIMS Number: 03050000**

In Physics, students conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: laws of motion, changes within physical systems and conservation of energy and momentum, forces, characteristics and behavior of waves, and electricity and magnetism. Students will apply conceptual knowledge and collaborative skills to experimental design, implementation, and interpretation.

### **UT OnRamps General Physics I Course - Mechanics, Heat and Sound & Lab**

**Prerequisites: Algebra I and Geometry**

**Recommended Co-Requisite: Algebra II**

**MFHS Number: SC42UY**

**PEIMS Number: A3050003**

Mechanics, Heat, and Sound introduces big ideas in physics, such as Newtonian mechanics (including motion, force, energy, and rotation), as well as solid and fluid mechanics, oscillations, waves, sound, and heat. Taken together, the topics reinforce the general idea that the behavior of many systems in the world can be described precisely with simple mathematics. This course is designed to be a dual enrollment college level course. However, students will have the opportunity to choose if they want to include their grade on their college transcript for this course. There is a tuition cost for UT OnRamps courses.

#### **Transferability**

TCCNs: PHYS 1301 + PHYS 1101

UT Course Codes: PHY 302K + PHY 102M

4 College Credits (3 for lecture, 1 for lab)

### **UT OnRamps General Physics Technical Course II - Electromagnetism, Optics and Nuclear Physics**

**Prerequisites: Physics, Algebra II, Geometry, OnRamps PHY 302K (General Physics)**

**MFHS Number: SC43UY**

**PEIMS Number: A3050004**

Electromagnetism, Optics, and Nuclear Physics serves as an introduction to electricity, magnetism, optics, waves, and quantum and nuclear physics. Students will explore these topics as they obtain practical experience with electrical circuits and optical devices. Students will also investigate modern physical phenomena, including the quantum nature of light (photons) and properties of the atomic nucleus. Students will learn both how scientific inquiry reveals the fundamental properties of the universe and how these properties are applied in

technologies that shape the modern world. This is the second course in a sequence of algebra-based (non-calculus) courses, designed by the faculty at The University of Texas at Austin (UT Austin), which fulfills a general physics requirement. Proficiency in algebra and geometry is assumed. Students will develop critical problem solving. This course is designed to be a dual enrollment college level course. However, students will have the opportunity to choose if they want to include their grade on their college transcript for this course. There is a tuition cost for UT OnRamps courses.

**Transferability**

TCCNs: PHYS 1302

UT Course Codes: PHY 302L

3 College Credits

**Tarleton Dual Enrollment - Advanced Animal Science (11-12)**

**Prerequisites: Biology, Chemistry or IPC, Algebra I, Geometry, and either Small Animal Management/Equine Science OR Livestock Production**

**MFHS Number: SC25DY**

**PEIMS Number: 13000700**

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. *This course satisfies a 4th Science credit for the Foundation High School Graduation Plan with Endorsement therefore it counts in MFISD GPA/class rank.* This course is designed to be a dual enrollment college level course. However, students will have the opportunity to choose if they want to include their grade on their college transcript for this course. There is a tuition cost for dual credit & dual enrollment courses.

**Transferability**

TCCNs: AGRI 1419

Tarleton Course Codes: ANSC 1319 and ANSC 1119

4 College Credits

**Advanced Animal Science (11-12)**

**Prerequisites: Biology, Chemistry or IPC, Algebra I, Geometry, and either Small Animal Management/Equine Science OR Livestock Production**

**MFHS Number: SC25CY**

**PEIMS Number: 13000700**

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. *This course satisfies a 4th Science credit for the Foundation High School Graduation Plan with Endorsement therefore it counts in MFISD GPA/class rank.*

**Advanced Plant & Soil Science**

**Prerequisites: Biology, and Horticulture Science or Greenhouse Operations & Production****MFHS Number: SC35CY****PEIMS Number: 13002100**

Advanced Plant & Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered and that plant and soil science is the basis for many other fields of science. To prepare for careers in plant and soil science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to plant and soil science and the workplace. *This course satisfies a 4th Science credit for the Foundation High School Graduation Plan with Endorsement therefore it counts in MFISD GPA/class rank.*

**Anatomy and Physiology****Prerequisites: Biology and 1 additional science credit.****Recommended prerequisite: a course from the Health Science Career Cluster****MFHS Number: SC15CY****PEIMS Number: 13020600**

Anatomy and Physiology is a two-semester course offering students general exploratory and advanced activities in the structure and functions of the components of the human body. Students will practice the methods and techniques used by professional scientists in medical investigations, build a mature understanding of the relationship of the structure and function of human body components, and acquire a realization of the interrelationship of the body systems. This course is particularly recommended for students who expect to work in the health field. *This course satisfies a 4th Science credit for the Foundation High School Graduation Plan with Endorsement therefore it counts in MFISD GPA/class rank.*

**Forensics – CSI Marble Falls****Prerequisites: Biology and Chemistry****MFHS Number: SC45CY****PEIMS Number: 13029500**

CSI Marble Falls.....Learn laboratory techniques and Forensic Science you can use to solve crimes. This hands-on, lab driven course will combine Biology labs and Forensic practices to solve crime situations. The CSI Marble Falls elective is a scientific research and design course to provide students with a foundation of laboratory skills and practices needed to further their studies of Forensics in college. Learn how to apply current scientific research and lab practices to problem solve the exciting mysteries presented. *This course satisfies a 4th Science credit for the Foundation High School Graduation Plan with Endorsement therefore it counts in MFISD GPA/class rank.*

**Environmental Systems****Prerequisites: Biology; IPC or Chemistry****MFHS Number: SC50MY****PEIMS Number: 0302000**

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. This course is intended for 11<sup>th</sup> and 12<sup>th</sup> grade students.

**AP Environmental Science**

**Prerequisites: Biology; Chemistry; Algebra I; Honors/AP Contract required to be signed by Parent or Guardian and the Student**

**MFHS Number: SC52AY**

**PEIMS Number: A3020000**

AP Environmental Science (APES) is a lab-based, interdisciplinary science course equivalent to a college level introductory environmental science course. The goal of APES is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and man-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions. This course is intended to prepare students to take the APES exam in order to earn college course credit depending on exam score. Students may complete an independent research project. Additional contact time outside the normal school day may be required. This course is intended for 11<sup>th</sup> and 12<sup>th</sup> grade students. AP Environmental Science is a college level course.

### **Scientific Research & Design (12)**

**Prerequisites: Biology, Chemistry, IPC or Physics, Engineering Design & Problem Solving**

**MFHS Number: SC85CY**

**PEIMS Number: 13037200**

This is a one period option for 12th grade Engineering pathway students.

This 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.

*This course satisfies a 4th science credit for the Foundation High School Graduation Plan with Endorsement, therefore it counts in MFISD GPA/class rank.*

# SOCIAL STUDIES

## **World Geography**

**Prerequisites: None**

**MFHS Number: SS10MY**

**PEIMS Number: 03320100**

The course is designed to give students unique perspectives about their own culture and physical environment in relationship to other places, cultures, and societies. These fundamental insights prepare students for daily interaction in a broad range of economics, political, and social issues. The primary goals of the course are to reinforce and refine basic geographic concepts and skills, help students think critically, form independent judgments, and develop competencies essential for effective citizenship in a global world.

## **AP Human Geography**

**Prerequisites: Honors/AP Contract required to be signed by Parents/Guardian and Student**

**MFHS Number: SS10AY**

**PEIMS Number: A3360100**

This course is designed to introduce students to the patterns and processes of the earth, its regions, and its people. In examining how people have interacted with the earth over time, students will examine concepts such as culture, population, political organization, cities, agriculture and land use, as well as industrialization and economic development. They also learn about the methods and tools geographers use in their science and practice. Students taking this course should have strong reading and writing skills. Upon completion of this course, interested students will also be eligible to take the national Advanced Placement examination in May to earn college credit. AP Human Geography is a college level course. This course cannot be taken if a World Geography Credit has been earned.

## **World History**

**Prerequisites: None**

**MFHS Number: SS20MY**

**PEIMS Number: 03340400**

This survey course is a study of the history of a variety of world cultures, their values, beliefs, political ideas, institutions, and innovations, as well as cultural diffusion and the links that connect different societies. Emphasis will be on political revolutions, industrial and technological revolutions, and the growth and mobility of the world's population. There will be a historical perspective on contemporary trends, issues, and problems and will emphasize the need for global cooperation to solve world problems.

## **AP World History**

**Prerequisites: Honors/AP Contract required to be signed by Parents/Guardian and Student**

**MFHS Number: SS20AY**

**PEIMS Number: A3370100**

AP World History is designed to develop a greater understanding of the evolution of global processes and contacts in interactions with different types of human societies from 1200 CE to the present. It highlights the nature of continuity and change over time and offers global coverage of Africa, The Americas, Asian and Europe. The course stresses the linkages between people and states formed through trade, the resultant migration of people and ideas, the mobilizations of mass society, revolutions, and the impact of technology upon humankind. Upon completion of this course, interested students will also be eligible to take the national Advanced Placement examination in May to earn college credit. AP World History is a college level course.



**U.S. History****Prerequisites: None****MFHS Number: SS30MY****PEIMS Number: 03340100**

United States History covers the period after reconstruction to the present and will include the following: emergence of the United States as a world power, the economic development and growth of the United States, and the social and cultural development of the United States. This course will require an End of Course Exam.

**AP U.S. History****Prerequisites: Honors/AP Contract required to be signed by Parents/Guardian and Student****MFHS Number: SS30AY****PEIMS Number: A3340100**

AP United States History is a college level course designed to give students the opportunity to study the history and development of the United States. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. The content for this course emphasizes the Colonial-Revolutionary War Period, Constitutional Period, the Age of Jackson, the Civil War and Reconstruction, the Progressive Era, the New Deal, and emergence of America as a world power after World War II. Students will learn to assess historical materials, their relevance to a given interpretive problem, reliability and their importance, and to weigh the evidence and interpretations presented in historical scholarship. Great emphasis is placed on the intellectual, cultural, and socioeconomic history of the United States. Students will also study and analyze the politics and diplomacy of this country. Students will have the opportunity to take the Advanced Placement Exam upon completion of the course. AP US History is a college level course. This course will require an STAAR End of Course Exam.

**OnRamps U.S. History****Prerequisites: English II****MFHS Number: SS30UY****PEIMS Number: 03340100**

THE UNITED STATES, 1492-1865

THE UNITED STATES SINCE 1865

In these two sequential first-year college courses, students study significant themes to uncover the range and depth of the American story. Using lectures, primary and secondary readings, videos, maps, and other graphics, students work both independently and collaboratively to develop the critical thinking skills to evaluate the historical record. History 315K surveys America from the colonial beginnings through the Civil War, and History 315L considers the post-Civil War era to the end of the 20th century. Students are assessed in multiple formats. The Research Enhanced Timeline project (RET) challenges students to engage with primary sources and practice archival research in order to make an argument about an episode in US History. Midterm and Final Exams include essay questions that require students to craft well-written narratives and arguments that set events in historical context, engage the complexity of cause and consequence, and make connections that reveal the dynamic of change over time. This course is designed to be a dual enrollment college level course. However, students will have the opportunity to choose if they want to include their grade on their college transcript for this course. There is a tuition cost for UT OnRamps courses. This course will require an STAAR End of Course Exam.

**Transferability**

TCCNS: HIST 1301 &amp; 1302

UT Course Codes: HIS 315K &amp; HIS 315L

6 College Credits (3 per semester)

**U.S. Government (.5 Credit)****Prerequisites: None****MFHS Number: SS40MS****PEIMS Number: 03330100**

This course is designed to study the origin and development of the U.S. Constitution, structure and powers of the national government including legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights.

**AP U.S. Government (.5 Credit)****Prerequisites: Honors/AP Contract required to be signed by Parents/Guardian and Student****MFHS Number: SS40AS****PEIMS Number: A03330100**

This course goes beyond the basic facts of the U.S. Government and looks at problems governing a modern society. The course is designed to teach students about the various institutions, groups, beliefs, and ideas that make up American politics. The students will also examine their own political ideas and beliefs. Students must be willing to read extensively outside of class and enhance their understanding of concepts by listening to or reading the news. A strong ability to communicate and a willingness to listen to others are important. This one-semester, college-level course prepares students to take the Advanced Placement US Government and Politics exam. AP US Government is a college level course.

**Dual Credit Government (.5 Credit)****Prerequisites: Appropriate TSI placement score met****MFHS Number: SS40DS****PEIMS Number: 03330100**

Students must pass the Reading section of the TSIA2 exam or be exempt by SAT or ACT scores (see your counselor for exemption status). This course is designed to study the origin and development of the U.S. Constitution, structure and powers of the national government including legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights. This is a college level course where students will receive high school credit for Government and 3 hours of college credit for GOVT 2305- Federal Government. The course will be offered through a higher education partnership and a higher education instructor online. An MFISD staff member will be designated as a facilitator and assist in monitoring students progress in the course, but the college instructor will assign all grades and communicate regarding grades. There is a tuition cost for dual credit courses.

**Economics (.5 Credit)****Prerequisites: None****MFHS Number: SS50MS****PEIMS Number: 03310300**

This course is designed to give students economic literacy as consumers in the economic system. It is a study of basic principles and theories with emphasis on helping develop competencies in the application of economic knowledge to daily functions and decision-making. Essentials and benefits of the free enterprise system will be studied.

**AP Macroeconomics (.5 Credit)****Prerequisites: Honors/AP Contract required to be signed by Parents/Guardian and Student****MFHS Number: SS50AS****PEIMS Number: A3310200**

Advanced Placement Macroeconomics is a course designed to provide students with a thorough understanding of the principles of economics that apply to the economic system as a whole. This course places emphasis on the

study of national income, price determination, and also develops familiarity with economic performance measures, economic growth, and international economics. AP Macroeconomics is a college level course. Students will have the opportunity to take the Advanced Placement Exam upon completion of the course.

### **On Ramps Economics (.5 Credit)**

**Prerequisites:** none

**MFHS Number:** SS50US

**PEIMS Number:** 03310300

Economics introduces students to the principles, models, and conditions that influence how consumers, businesses, governments, and workers make and evaluate economic decisions. The course places emphasis on microeconomics concepts and quantitative reasoning as students employ logic, mathematics, and technology to interpret basic statistics and apply economic analysis. It also features macroeconomics topics and personal financial literacy content in addition to core concepts including scarcity and opportunity costs, supply and demand, market structures, competition, and behavioral economics. Students will engage in flipped and adaptive learning to drive understanding of their own mastery. In addition, they will collaborate with peers in class discussions and problem-solving exercises to apply and extend their knowledge of economics concepts. By the end of the course, students will possess a deeper comprehension of a highly complex and evolving world tied to entrepreneurship, business, and daily life. This course is designed to be a dual enrollment college level course. However, students will have the opportunity to choose if they want to include their grade on their college transcript for this course. There is a tuition cost for UT OnRamps courses.

### **Transferability**

TCCNS: ECON 2302

UT Course Codes: ECO 304K (Microeconomics)

3 College Credits

### **Personal Financial Literacy (.5 Credit)**

**Prerequisites:** none

**MFHS Number:** SS63MS

**PEIMS Number:** 03380082

This course will develop citizens who have the knowledge and skills to make sound, informed financial decisions that allow them to lead financially secure lifestyles and understand personal financial responsibilities. This course is designed to be active and research-based.

### **Psychology (.5 Credit)**

**Prerequisites:** Grade 10-12

**MFHS Number:** SS61MS

**PEIMS Number:** 03350100

This class surveys the major principles of psychology. The course introduces the history of psychology, human development, personality, learning, memory and thought, emotion, thinking, and language.

### **Sociology (.5 Credit)**

**Prerequisites:** Grade 10-12

**MFHS Number:** SS62MS

**PEIMS Number:** 03370100

This course surveys the major principles of sociology. This course offers a study of human relationships in society. It focuses upon the use of sociological point of view to examine culture, social structure, and the individual in society, social institutions, and social inequality. The changing social world and its implications are presented and analyzed.

# PHYSICAL EDUCATION

## **Lifetime Fitness and Wellness Pursuits**

**Prerequisites:** None

**MFHS Number:** PEHF1Y

**PEIMS Number:** PES00051

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

## **Lifetime Recreation and Outdoor Pursuits**

**Prerequisites:** None

**MFHS Number:** PEH01Y

**PEIMS Number:** PES00053

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

## **Skill-Based Lifetime Activities**

**Prerequisites:** None

**MFHS Number:** PESB1Y

**PEIMS Number:** PES00056

The Skills-Based Lifetime Activities is a yearlong course and offers students the opportunity to demonstrate mastery in basic sport skills, basic sport knowledge, and health and fitness principles. Students experience opportunities that promote physical literacy and lifetime wellness. Students in Skill-Based Lifetime Activities participate a minimum of one lifelong activity from each of the following five categories during the course: target games, striking and field games, fitness activities applying fitness principles, rhythmic activities, innovative games and activities with international significance.

## **Athletic Trainer**

**Prerequisites:** Approval by Athletic Trainer

**MFHS Number:** ATTR1Y, ATTR2Y, ATTR3Y, ATTR4Y

**PEIMS Number:** PES00000, PES00001, PES00002, PES00003

These students will serve as Athletic trainers for Athletic teams. This course will count as a PE credit. Students must apply for this course and must attend sporting events outside of the school day.

# ATHLETICS

## BOYS ATHLETICS

### Boys Athletics I, II, III, IV

**Prerequisites:** Coaches' approval

**PEIMS Number:** PES00000, PES00001, PES00002, PES00003

Participation in one or more of the following sports: football, basketball, baseball, soccer; outside of school practice is required. Practice is held outside of the school day for cross-country, track, and powerlifting.

- Boys Athletics 1 - All 9th grade boys will be placed in this class, unless they only want to participate in tennis or golf. Then they will select those courses.
- Boys Football I, II, III, IV (ATFB1Y, 2Y, 3Y, 4Y) – A class for boys whose primary sport is football.
- Boys Basketball I, II, III, IV (ATBB1Y, 2Y, 3Y, 4Y) – A class for boys whose primary sport is basketball.
- Boys Soccer I, II, III, IV (ATBS1Y, 2Y, 3Y, 4Y) – A class for boys whose primary sport is soccer.
- Boys Baseball I, II, III, IV (ATBA1Y, 2Y, 3Y, 4Y) – A class for boys whose primary sport is baseball.
- Boys Cross Country/Track (ATBT1Y, 2Y, 3Y, 4Y) - A class for boys whose primary sport is cross country or track.

## GIRLS ATHLETICS

### Girls Athletics I, II, III, IV

**Prerequisites:** Coaches' approval

**PEIMS Number:** PES00000, PES00001, PES00002, PES00003

Participation in one or more of the following sports: volleyball, basketball, soccer, and softball; outside of school practice is required. Practice is held outside of the school day for cross-country, track, and powerlifting.

- Girls Basketball I, II, III, IV (ATGB1Y, 2Y, 3Y, 4Y) – A class for girls whose primary sport is basketball.
- Girls Soccer I, II, III, IV (ATGS1Y, 2Y, 3Y, 4Y) – A class for girls whose primary sport is soccer.
- Girls Softball I, II, III, IV (ATSB1Y, 2Y, 3Y, 4Y) – A class for girls whose primary sport is softball.
- Girls Volleyball I, II, III, IV (ATVB1Y, 2Y, 3Y, 4Y) - A class for girls whose primary sport is volleyball.
- Girls Cross Country/Track (ATGT1Y, 2Y, 3Y, 4Y) - A class for girls whose primary sport is cross country or track.

## GOLF, TENNIS, and SWIMMING

### Girls and Boys Golf I, II, III, IV (ATGF)

**Prerequisites:** Tryouts

**MFHS Number:** ATGF1Y, ATGF2Y, ATGF3Y, ATGF4Y

**PEIMS Number:** PES00000, PES00001, PES00002, PES00003

This class is for boys and girls whose primary sport is golf. This class will meet every day for the whole year.

### Girls and Boys Tennis I, II, III, IV (ATTN)

**Prerequisites:** None for Tennis I, Tennis II, III and IV Coaches Approval

**MFHS Number:** ATTN1Y, ATTN2Y, ATTN3Y, ATTN4Y

**PEIMS Number:** PES00000, PES00001, PES00002, PES00003

This class is for boys and girls who only play tennis. This class will meet every day for the whole year.

### Girls and Boys Swimming 1, 2, 3, 4

**Prerequisites:** Tryouts

**MFHS Number:** ATSW1Y, ATSW2Y, ATSW3Y, ATSW4Y

**PEIMS Number:** PES00000, PES00001, PES00002, PES00003

This class is for boys and girls whose primary sport is swimming. This class will meet every day for the whole year.

## **CHEERLEADING**

**Cheerleading I, II, III, IV**

**Prerequisites: Tryout required**

**MFHS Number: PEHC1Y (PE), OLEC1Y, OLEC2Y, OLEC3Y, OLEC4Y**

**PEIMS Number: PES00013 (PE), 84200XXX**

All cheerleaders are required to be enrolled in the fall semester cheerleading class. Students will earn 1.0 state PE credit the first year and local credit each year after that unless a student is in athletics. If a student is in athletics, every year of cheer counts as a local credit.

**Drill Team I, II, III, IV (FD)**

**Prerequisites: Tryout required**

**MFHS Number: FDVP1Y (PE), FDV10Y, FDV20Y, FDV30Y, FDV40Y**

**PEIMS Number: PES00014 (PE), 03833300, 03833400, 03833500, 03833600**

Students will learn dance techniques; learn and rehearse Drill Team routines for the pep rallies, halftime performances, competition, and spring show. After school practices and performances required. Students enrolled in the Drill Team will receive 1.0 PE credit the first year and 1.0 Fine Arts credit each year after that, unless they are also enrolled in athletics. If a student is also in athletics, then all four years of drill team will count as a fine arts state credit.

# LANGUAGES OTHER THAN ENGLISH

## **Spanish I**

**Prerequisites:** None

**MFHS Number:** LSP1MY

**PEIMS Number:** 03440100

Students in Spanish I will be able to express meaning in simple contexts and understand sentence-length information. Students may be generally understood by people accustomed to dealing with language learners. This course is a basic introduction to language and culture. Students will learn to speak and understand basic phrases and read and write simple sentences. Basic grammar is studied with an emphasis on vocabulary acquisition.

## **Spanish II**

**Prerequisites:** Spanish I

**MFHS Number:** LSP2MY

**PEIMS Number:** 03440200

Students in Spanish II will be able to express meaning in straightforward and personal contexts and understand information from simple connected statements. Students are generally understood by people accustomed to dealing with language learners. Students will continue to acquire and discover the target language through speaking, listening, reading, and writing activities. This course allows the students to begin communicating in a target language environment. This course is a continuation of the level I course as students broaden their ability to read, write, listen, and speak in the language. Oral skills are stressed with emphasis given to more advanced reading and writing exercises and to the study of culture.

## **Honors Spanish II**

**Prerequisites:** Spanish I and Honors/AP Contract required to be signed by Parents/Guardian and Student

**MFHS Number:** LSP2HY

**PEIMS Number:** 03440200

Students will be able to express meaning in straightforward and personal contexts and understand information from simple connected statements. In this course students continue to build upon their proficiency while beginning to develop language skills so that they may be able to communicate at a more complex level. The content of this course will be accelerated and expanded to include an extensive study of grammar and more advanced vocabulary. The focus of this course is developing intermediate proficiency.

## **Honors Spanish III**

**Prerequisites:** Spanish II or Honors Spanish II; Honors/AP Contract required to be signed by Parents/Guardian and Student

**MFHS Number:** LSP3HY

**PEIMS Number:** 03440300

This course focuses on a higher level of study in Spanish. It is conducted almost entirely in Spanish and is designed as a preparation for AP Spanish IV. The content of this course will be accelerated and expanded to include more advanced vocabulary and grammar, emphasizing oral and written communication. The focus of this course is developing intermediate-high proficiency.

## **AP Spanish IV (AP Spanish Language)**

**Prerequisites:** Spanish III or Honors Spanish III and Honors/AP Contract required to be signed by Parents/Guardian and Student

**MFHS Number:** LSP4AY

**PEIMS Number:** A3440100

This course is for students who wish to develop proficiency in their language skills. It is comparable to third or

fourth semester college courses that focus on speaking and writing in Spanish, and reading and listening using authentic sources and materials. The course is conducted entirely in Spanish and incorporates the AP themes within the units of study. Emphasis is placed on oral and written interpersonal and presentational communication. The focus of this course is developing intermediate-high to advanced-low proficiency. Students can obtain college credit through satisfactory completion of the Spanish Language AP exam. AP Spanish is a college level course.

#### **AP Spanish V (AP Spanish Literature)**

**Prerequisites:** AP Spanish IV; ADV/AP Contract required to be signed by Parents/Guardian and Student

**MFHS Number:** LSP5AY

**PEIMS Number:** A3440200

This course is for students who have completed AP Spanish IV. The focus of this course is understanding and analyzing literary texts and their social, historic, and artistic contexts. It is comparable to a third year college literature survey course exploring major literary works in the genres of short stories, drama, novels, essays, and poetry from the Middle Ages to the 20<sup>th</sup> century. The course is conducted entirely in Spanish and incorporates the AP themes within the units of study. Emphasis is placed on oral and written interpersonal and presentational and interpretive communication. Students can obtain college credit through satisfactory completion of the Spanish Literature AP exam. AP Spanish V is a college level course.

#### **American Sign Language (ASL) I**

**Prerequisites:** None

**MFHS Number:** LAS1MY

**PEIMS Number:** 03980100

This course is a basic introduction to ASL and Deaf culture. Students will learn to sign the manual alphabet, numbers, and basic phrases. Students will study the basic grammar and syntax of ASL.

#### **American Sign Language (ASL) II**

**Prerequisites:** ASL I

**MFHS Number:** LAS2MY

**PEIMS Number:** 03980200

A continuation of ASL I, students focus on advanced conversational skills, grammar and syntax. Students will explore, in detail, issues concerning Deaf culture, and study the anatomy and physiology of the human ear.



# FINE ARTS

## VISUAL ARTS

### Art I

**Prerequisites:** None

**MFHS Number:** FA10MY

**PEIMS Number:** 03500100

Art I is an introductory course in which students learn and use the elements and principles of art to create a variety of two and three dimensional art (art production). Media explored will include but will not be limited to, drawing, painting, printmaking, sculpture, ceramics, and fibers. Students will also be introduced to the historical and cultural influences on art (art history). They will explore the philosophical nature of art (aesthetics) and students will learn to make critical judgments about art (art criticism). Art 1 is a year-long course in which first semester skills are needed to be successful in semester two.

### Art II Drawing

**Prerequisites:** Art I

**MFHS Number:** FA2DMY

**PEIMS Number:** 03500500

This class is structured to give students a solid foundation of drawing courses while working with 2-D and drawing materials. Students will get a good background in sketching and drawing techniques with various mediums and styles. Technique and quality is stressed. Students will also learn what took place at different times in history artistically, along with analyzing and self-reflection. Students are encouraged to participate in art competitions, events, and at least one local art show. **Students are required to purchase specific supplies for this course or pay a supply fee of \$20.**

### Art II Ceramics

**Prerequisite:** Art I

**MFHS Number:** FA2CMY

**PEIMS Number:** 03500900

This is a sequential class, which depends on your previous experience in Art 1. Interested students will be working all year in clay to explore various methods of creating functional and expressive works depending on a student's expertise. Students will need to be flexible, have a good attitude, and be a hard worker to be successful in this course. Ceramics students should be preparing an art portfolio for higher education art and are encouraged to participate in art competitions, events, and at least one local art show. **Students are required to purchase specific supplies for this course or pay a supply fee of \$20.**

### Art III Drawing

**Prerequisites:** Art II Drawing

**MFHS Number:** FA3DMY

**PEIMS Number:** 03501300

This class is structured to increase students' high quality skills with 2-D and drawing materials. Students will gain skills with various mediums and styles. Technique and quality is stressed. Students will be preparing an art portfolio for higher education and the professional art world. Students will also learn what took place at different times in art history, along with analyzing and self-reflection. Students are expected to participate in art competitions, events, and at least one local art show. **Students are required to purchase specific supplies for this course or pay a supply fee of \$20.**

### **Art III Ceramics**

**Prerequisite: Art II Ceramics**

**MFHS Number: FA3CMY**

**PEIMS Number: 03501800**

This is a sequential class, which depends on your previous experience in ceramics. Interested students will be working all year in clay to explore various methods of creating functional and expressive works depending on a student's expertise. Students will need to be flexible, have a good attitude, and be a hard worker to be successful in this course. Ceramics students will prepare an art portfolio for higher education or the professional art world. Students are expected to participate in art competitions, events, and at least one local art show. **Students are required to purchase specific supplies for this course or pay a supply fee of \$20.**

### **Art IV Drawing**

**Prerequisites: Art III Drawing**

**MFHS Number: FA4DMY**

**PEIMS Number: 03502300**

This class is structured to give students time and space to continue to practice high quality working skills with 2-D and drawing materials. Students will gain greater skill with various mediums and styles. Technique and quality is stressed. Students will be preparing an art portfolio for higher education and the professional art industry. Students will also learn what took place at different times in history artistically, along with analyzing and self-reflection. Students are required to participate in art competitions, events, and at least one local art show. **Students are required to purchase specific supplies for this course or pay a supply fee of \$20.**

### **Art IV Ceramics**

**Prerequisite: Art III Ceramics**

**MFHS Number: FA4CMY**

**PEIMS Number: 03502700**

This is a sequential class, which depends on your previous experience in ceramics. Interested students will be working all year in clay to explore various methods of creating functional and expressive works depending on a student's expertise. Students will need to be flexible, have a good attitude, and be a hard worker to be successful in this course. Ceramics students will be preparing an art portfolio for higher education or the professional art industry and are required to participate in art competitions, events, and at least one local art show. **Students are required to purchase specific supplies for this course or pay a supply fee of \$20.**

### **AP Studio Art – Portfolio**

**Prerequisite: Art III; Honors/AP Contract required to be signed by Parents/Guardian and Student**

**MFHS Number Drawing Portfolio: FA5DAY**

**MFHS Number 2 D Design Portfolio: FA4DAY**

**PEIMS Number Drawing Portfolio: A3500300**

**PEIMS Number 2D Design Portfolio: A3500400**

Advanced Placement Studio Portfolio Art is a college-level class. This class is for seniors serious about art and pursuing a creative career. This course requires a portfolio presentation. This College Board Program provides students with college credit or advanced placement while still in high school. Portfolios will require a body of quality original work in various mediums based on a concentration to show student interests. Students need to be aware that AP work involves quite a bit more commitment and accomplishment than the typical high school course and that the program is not for the casually interested. A lab and matting fee is required, and students must have all supplies by the second week to succeed in this course. AP Studio Art – Portfolio is a college-level course. **Students are required to purchase specific supplies for this course or pay a supply fee of \$40.**

## **BAND**

### **Music Band I, II, III, IV (FB)**

**Prerequisites: Audition/Director Approval**

**MFHS Number - 9th Grade PE Credit: FBB1PY**

**MFHS Numbers - Fine Arts Credits: FBB1FY, FBB2FY, FBB3FY, FBB4FY**

**PEIMS Number: 9th Grade - not in an athletic or PE class PES00012**

**PEIMS Number: Fine Arts Credits 03150100, 03150200, 03150300, 03150400**

An organization designed to teach teamwork, self-discipline, and develop higher level thinking skills necessary to express one's self through music. In the fall the organization will perform as the Marching Band and will perform at all varsity football games as well as various marching competitions. Students receive 1 PE credit for the 1st year of Band and 1 Fine Arts credit for each year after the first year. If a student is in athletics or another PE substitution class, they will receive fine arts credit in their first year. After the marching season is over, emphasis will switch to skills that are particular to concert performance as well as attention to soloist development through All-Region auditions as well as solo and small ensemble opportunities. The band will perform at least five concerts during the year, as well as participate in clinics and contests adjudicated by the best music educators in the country. Opportunities for solo performance will come from Region Band tryouts and solo competition. Students are expected to be enrolled for the entire school year.

### **Jazz Band I, II, III, IV (FBJ)**

**Prerequisites: Audition/Concurrent Enrollment in Band I, II, III, or IV**

**MFHS Number: FBJV1Y, FBJV2Y, FBJV3Y, FBJV4Y**

**PEIMS Number: 03151300, 03151400, 03151500, 03151600**

Students will be exposed to different jazz styles such as swing, bebop, blues, rock, and funk. Instrumentation is bandlimited to: 2 alto saxophones, 2 tenor saxophones, 1 baritone saxophone, 3 to 5 trombones, 3 to 5 trumpets, 1 piano, 2 percussionists (trap set and auxiliary), electric bass, and guitar. Performances, including contest participation, will take place during and outside the school day. If necessary, students who play Piano, Bass Guitar or Guitar may be allowed to enroll in Jazz Band without concurrent enrollment in Band. This exception will be based on Director Approval.

### **Applied Music for Band (9-12)**

**Prerequisites : Director Approval**

**MFHS Number: FBM10Y, FBM20Y, FBM30Y, FBM40Y**

**PEIMS Number: 03152500, 03152600, 03152601, 03152602**

The course permits credit for private voice/instrumental study with a certified private teacher under the supervision of a member of the MFHS music faculty. The student will study solo literature and accept assignments based on individual need to determine style and interpretation of the music to be performed. They are required to compete in TMEA and Solo Contests. Study of Vocal/Instrumental technique will be stressed. Performance expectations will result from such private study. A year end recital will be an expectation of this class.

### **Color Guard (9-12) (FBG)**

**Prerequisite: Director Approval**

**MFHS Number - 9th Grade PE Credit: FBG1PY**

**MFHS Numbers - Fine Arts Credits: FBG1FY, FBG2FY, FBG3FY, FBG4FY**

**PEIMS Number - 9th Grade PE Credit: PES00012**

**PEIMS Number: Fine Arts Credits 03150100, 03150200, 03150300, 03150400**

(Students receive 1 PE credit for the 1st year of Color Guard and 1 Fine Arts credit for each year after the first year. If a student is in athletics or another PE substitution class, they will receive fine arts credit in their first year.) Color

Guard is a primary “visual component” of the Band Program/Marching Band. Membership in the Color Guard is by audition only, with approval of the Color Guard Director and/or the Band Director. Color Guard is a full year commitment: Marching Season and Indoor Season (Winter Guard.) Members of the Color Guard learn movement skills, equipment skills (flag, rifle, sabre), performance skills and team building skills that help develop a sense of confidence, self-discipline, teamwork and pride.

## CHOIR

### **Concert Tenor/Bass (9-12)**

#### **Concert Treble (9-12)**

**Prerequisites: Audition**

**MFHS Number Concert Tenor/Bass: FCCM1Y, FCCM2Y, FCCM3Y, FCCM4Y**

**MFHS Number Concert Treble: FCCW1Y, FCCW2Y, FCCW3Y, FCCW4Y**

**PEIMS Number: 03150900, 03151000, 03151100, 03151200**

Concert Choir is the beginning UIL High School choir for freshman men and women. The class is separated by voice type. Class activities will include proper singing habits, performance skills, vocalization, building and development of voice, theory, sight-reading skills, learning songs representative of various choral styles and historical periods, and some study of music history and literature. **Performances in and out of class are required, and there are uniform fees.**

### **Acapella Choir**

**Prerequisites: Audition**

**MFHS Number: FCA10Y, FCA20Y, FCA30Y, FCA40Y**

**PEIMS Number: 03150900, 03151000, 03151100, 03151200**

Acappella is the Junior Varsity UIL mixed ensemble. Class activities will include proper singing habits, performance skills, vocalization, building and development of voice, theory, sight-reading skills, learning songs representative of various choral styles and historical periods, and some study of music history and literature. **Performances in and out of class are required, and there are uniform fees.**

### **Chamber Singers (10-12)**

**Prerequisites: Audition; Be a Member of Chorale**

**MFHS Number: FCCS1Y, FCCS2Y, FCCS3Y, FCCS4Y**

**PEIMS Number: 03152100, 03152200, 03152300, 03152400**

Chamber Singers are an elite ensemble that performs an eclectic program. They explore the worlds of Contemporary Acappella, Jazz, Musical Theatre, and the classical world. The students are required to be a part of the musical, and outside performances are a regular part of the class. Chamber Singers has a heavy December performance schedule. **The students are expected to be taking private voice lessons, as solo work is required in this class. Students are required to participate in Madrigal Festival.**

### **Chorale**

**Prerequisites: Audition**

**MFHS Number: FCC10Y, FCC20Y, FCC30Y, FCC40Y**

**PEIMS Number: 03150900, 03151000, 03151100, 03151200**

The Chorale is a Varsity UIL performing group of mixed voices. Selection for this choir is based on audition. Class activities will include proper singing habits, performance skills, vocalization, building and development of voice, theory, sight-reading skills, learning songs representative of various choral styles and historical periods, and some study of music history and literature. Solo and Ensemble skills will be developed. **Performances in and out of class are required, and there are uniform fees.**

### **Show Choir (9-12)**

**Prerequisites: Audition; Be a Member of another UIL Choir**

**MFHS Number - Fine Arts Credit: FCSC1Y, FCSC2Y, FCSC3Y, FCSC4Y**

**MFHS Number - PE Credit: FCSP1Y**

**PEIMS Number - Fine Arts Credit: 03152100, 03152200, 03152300, 03152400**

**PEIMS Number - PE Credit: PES00054**

This choir performs show tunes and popular music. Students are encouraged to participate in the musical, and outside performances are a regular part of the class. Dance and movement are a part of this curriculum. Students who need PE credit for Show Choir, must sign up under the PE number listed above. **Students must also be in an additional UIL choir class. The students are expected to be taking private voice lessons. This class can count for a PE credit.**

### **Applied Music (11-12)**

**Prerequisites : Instructor Approval**

**MFHS Number: FCM10Y, FCM20Y, FCM30Y, FCM40Y**

**PEIMS Number: 03152500, 03152600, 03152601, 03152602**

The course permits credit for private voice/instrumental study with a certified private teacher under the supervision of a member of the MFHS music faculty. The student will study solo literature and accept assignments based on individual need to determine style and interpretation of the music to be performed. They are required to compete in TMEA and Solo Contests. Study of Vocal/Instrumental technique will be stressed. Performance expectations will result from such private study. A year end recital will be an expectation of this class.

## **DANCE**

### **Dance I**

**Prerequisites: None**

**MFHS Number Fine Arts Credit: FDD10Y**

**MFHS Number PE Credit: FDP10Y**

**PEIMS Number Fine Arts Credit: 03830100**

**PEIMS Number PE Credit: PES00051**

Dance I can count as a PE, or it can count as a Fine Arts credit. This course provides students with the vocabulary of dance movement and the factors that influence movement. Students will acquire the fundamental skills in any or all of the following dance techniques: ballet, jazz, tap, aerobic, pre-drill, modern, social dance, and choreography. Black leotards and black pants are required.

### **Dance II/III/IV**

**Prerequisites: Dance I**

**MFHS Number: FDD20Y, FDD30Y, FDD40Y**

**PEIMS Number: 03830200, 03830300, 03830400**

Dance II, III, & IV count as Fine Arts credits. These courses focus on intermediate and advanced concepts of dance (ballet, tap, jazz, modern, pre-drill and social dance). Students will be engaged in improvisation and their own choreography. Black leotard and black pants are required.

**Drill Team I, II, III, IV (FD)****Prerequisites: Tryout required****MFHS Number: FDVP1Y (PE), FDV10Y, FDV20Y, FDV30Y, FDV40Y****PEIMS Number: PES00014 (PE), 03833300, 03833400, 03833500, 03833600**

Students will learn dance techniques; learn and rehearse Drill Team routines for the pep rallies, halftime performances, competition, and spring show. After school practices and performances required. Students enrolled in the Drill Team will receive 1.0 PE credit the first year and 1.0 Fine Arts credit each year after that, unless they are also enrolled in athletics. If a student is also in athletics, then all four years of drill team will count as a fine arts state credit.

## THEATRE ARTS

**Theatre Arts I (FTA)****Prerequisites: None****PEIMS Number: 03250100**

Students participate in various group activities, learn theatre safety, improvisation, theatre terminology, and basic acting skills/techniques, and improve their communication and memorization skills. The multiple components of a theatrical production are explored through the preparation and performance of scenes and short plays. Students participating in the course shall have opportunities to observe preparations and productions of educational, community, and professional theatre companies.

**Theatre Arts II (FTA)****Prerequisite: Theatre Arts I****PEIMS Number: 03250200**

This course builds on the background established in Theatre Arts I placing greater emphasis on the theory and exercises in body control, voice, interpretation, improvisation, characterization, stage action, and analysis and study of auditioning, scripts, playwriting, and film production. Students participating in the course shall have opportunities to observe preparations and productions of educational, community, and professional theatre companies. The course also provides opportunities to develop knowledge of basic stagecraft; however, a broader scope of study is offered in the Technical Theatre courses.

**Theatre Arts III (FTA)****Prerequisites: Theatre Arts I, II****PEIMS Number: 03250300**

The Theatre Arts III continues the study of the historical evolution and cultural contributions of the theatre, its plays, and its performance and production styles and techniques. Students study basic components of production and apply them through performances in various historic styles and theatrical modes. Students participating in the course shall have opportunities to observe preparations and productions of educational, community, and professional theatre companies. This course is a recommended prerequisite for students wishing to prepare for Theatre Production courses.

**Theatre Production I, II, III, IV (FTP)****Prerequisites: Theatre Arts I, audition, and director approval****PEIMS Number: 03250700, 03250800, 03250900, 03251000**

Each student shall have the opportunity to continue developing skills in acting, technical design, production management, directing, stagecraft, advance oral interpretation, and play writing. Students will participate in the fall and spring productions for the public, and have investment in the UIL One Act Play competition. Students participating in the course shall have opportunities to observe preparations and productions of educational, community, and professional theatre companies. After school lab rehearsals and performances are required.

### **Technical Theatre I, II, III, IV (FTT)**

**Prerequisites:** Theatre Arts I and director approval

**PEIMS Number:** 03250500, 03250600, 03251100, 03251200

Technical Theatre combines theories of design and stagecraft techniques with construction and operation of the various technical theatre elements including scenery, properties, lighting, sound, costumes, makeup, and public relations. Students will construct and maintain the technical areas assigned and perform their role during rehearsal, production, and strike. Students participating in the course shall have opportunities to observe preparations and productions of educational, community, and professional theatre companies. After school lab rehearsals and performances are required along with 10 hours of practicum each semester.

## **OTHER ELECTIVES**

### **Career Preparation I-II 2 or 3 credit option (11-12)**

**Prerequisite:** students must meet transportation and employment criteria

**MFHS Numbers:**

**First Year, 10 hours a week - CD12MY**

**First Year, 15 hours a week - CD13MY**

**Second Year, 10 hours a week - CD22MY**

**Second Year, 15 hours a week - CD23MY**

**PEIMS Numbers:**

**First Year, 10 hours a week - 12701300 (2 credits)**

**First Year, 15 hours a week - 12701305 (3 credits)**

**Second Year, 10 hours a week - 1270400 (2 credits)**

**Second Year, 15 hours a week - 1270405 (3 credits)**

Career Preparation provides opportunities for students to participate in a work-based learning experience that develops job skills through classroom instruction and on-the-job training. Students will be given job-specific training assignments, including job interviews, ethics, resumes, safety, career research, people skills, dress for success, and leadership skills. Students participate in class every day and have a 2 or 3-credit option depending on hours worked weekly. Students MUST obtain an approved job by the 10th day of school, or they will be dropped from the class.

### **English Language Development and Acquisition (ELDA)**

**MFHS Number:** EN01MY - First Time Taken / EN02MY - Second Time Taken

**PEIMS Number:** 03200800 - First Time Taken / 03200810 - Second Time Taken

English Language Development and Acquisition (ELDA) is designed to provide instructional opportunities for secondary recent immigrant students with little or no English proficiency. These students have scored at the negligible/very limited academic language level of the state-approved English oral language proficiency tests. This course enables students to become increasingly more proficient in English in all four language domains. It addresses cognitive, linguistic, and affective needs in compliance with federal requirements and the provisions of Chapter 89, Subchapter BB, of this title (relating to Commissioner's Rules Concerning State Plan for Educating English Language Learners) under the Texas Education Code.

### **Multilingual Acculturation Studies for Newcomers**

**MFHS Number:** CD30MY

**PEIMS Number:** N1290062

The central focus of this course is to help emergent bilingual (EB) students in embracing their acculturation experience. Acculturation refers to the cultural and social changes that an immigrant undergoes when exposed to a new environment and interacts with a different cultural group (Berry & Sam, 2018). The course takes an integrated identity approach, aiming to facilitate a successful academic journey for newcomer students as they

learn a new culture and language. It offers cultural and social support tailored to the diverse needs of newcomer students, guiding them through various stages of acculturation and fostering increased community engagement and academic achievement.

### **Peer Assistance and Leadership (PALS)**

**Prerequisites: Application Required**

**MFHS Number 1st Year: OEP12Y**

**MFHS Number 2nd Year: OEP22Y**

**PEIMS Number: N1290005 (1st Year), N1290006 (2nd Year)**

The mission of the PALS peer-helping program is to utilize the potential of young people to make a difference in their schools and communities. PALS provide guidance and mentoring for peers and younger children on issues like self-esteem and social skills. PALS also enrich their community through service learning projects and extended volunteer activities. Selected students will be trained to work as peer facilitators with other students on their home campus and/or elementary and middle school campuses. For this course, community service projects will also be an integral part of the field experience for students potentially interested in careers in education, child psychology or related helping professions. Students can take PALS for up to two years. PALS counts as one state credit and one local credit each year taken.

### **Sports Medicine I (9-12)**

**Prerequisites: None**

**MFHS Number: OE21MY**

**PEIMS Number: N1150040**

This course provides an opportunity for the study and application of the following components but not limited to: sports medicine related careers, prevention of athletic injuries, recognition, evaluation, and immediate care of athletic injuries, rehabilitation and management skills, taping and wrapping techniques, first aid, emergency procedures, nutrition, sports psychology, human anatomy and physiology, therapeutic modalities, and therapeutic exercises. This course is designed for those who are current student athletic trainers or have teacher approval only.

### **Sports Medicine II (10-12)**

**Prerequisites: Sports Medicine I; Application Required**

**MFHS Number: OE22MY**

**PEIMS Number: N1150041**

This course will involve outside-of-class time homework and the time required to work with athletes and athletic teams. It provides an in-depth study and application of the components of sports medicine, including but not limited to basic rehabilitative techniques; therapeutic modalities; wound care; taping and bandaging techniques; prevention, recognition, and care of musculoskeletal injuries; injuries to young athletes; drugs in sport; modern issues in sports medicine.



# CAREER & TECHNICAL EDUCATION

## AGRICULTURE, FOOD & NATURAL RESOURCES

### Animal Science

Career & Technical Student Organization - FFA

#### Principles of Agriculture (8-12)

**Prerequisites:** None

**MFHS Number:** CAG10Y

**PEIMS Number:** 13000200

This is the introductory course for all Agriculture Science Classes. All agricultural areas are covered including FFA, Parliamentary Procedure, Soil, Plant, Animal, Food and Environmental Science. There will also be a small introduction to Agricultural Mechanics.

#### Small Animal Management (.5 Credit) (9-12) **offered every other year - odd years**

**Prerequisite:** Principles of Agriculture (Concurrent Enrollment Allowed for 12<sup>th</sup> Grade Students)

**MFHS Number:** CAG30S

**PEIMS Number:** 13000400

Small Animal Management is a course designed to enhance the understanding of small animal care. Students will develop a deeper understanding of career opportunities, industry expectations, knowledge and skills related to the care and maintenance of small animals. In addition, students will learn about the various species and breeds of small animals, and their individual body systems. During the course of the semester, students will examine small mammals, dogs, cats, birds, amphibians, and reptiles.

#### Equine Science (.5 Credit) (9-12) **offered every other year - odd years**

**Prerequisite:** Principles of Agriculture (Concurrent Enrollment Allowed for 12<sup>th</sup> Grade Students)

**MFHS Number:** CAG20S

**PEIMS Number:** 13000500

This course is focused on learning about horses. The beginning of the semester will address basic equine knowledge such as history, breeds, identification, conformation, and judging. Students will explore concepts in anatomy, physiology, reproduction, nutrition, health, equine facilities, and management.

#### Livestock Production (9-12) **offered every other year - even years**

**Prerequisite:** Principles of Agriculture (Concurrent Enrollment Allowed for 12<sup>th</sup> Grade Students)

**MFHS Number:** CAG40Y

**PEIMS Number:** 13000300

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. **Students will prepare to take the Elanco Fundamentals of Animal Science Certification.**

#### Veterinarian Medical Applications (11-12)

**Prerequisites:** Small Animal Management OR Equine Science OR Livestock Production

**MFHS Number:** CAG60Y

**PEIMS Number:** 13000600

Veterinarian Technology is a course offered with the Texas Veterinary Medical Association to provide the opportunity for students to obtain an **Elanco Veterinary Medical Applications Certification**. Certification is not a

requirement for the course. Students will learn the skills needed to be an efficient assistant for the veterinarian. Exam room, lab technician, and reception skills will be taught.

### **Tarleton Dual Enrollment - Advanced Animal Science (11-12)**

**Prerequisites:** Biology, Chemistry or IPC, Algebra I, Geometry, and either Small Animal Management/Equine Science OR Livestock Production

**MFHS Number:** SC25DY

**PEIMS Number:** 13000700

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. *This course satisfies a 4th Science credit for the Foundation High School Graduation Plan with Endorsement therefore it counts in MFISD GPA/class rank.* This course is designed to be a dual enrollment college level course. However, students will have the opportunity to choose if they want to include their grade on their college transcript for this course.

#### **Transferability**

TCCNS: AGRI 1419

Tarleton Course Codes: ANSC 1319 and ANSC 1119

4 College Credits

### **Advanced Animal Science (11-12)**

**Prerequisites:** Biology, Chemistry or IPC, Algebra I, Geometry, and either Small Animal Management/Equine Science OR Livestock Production

**MFHS Number:** SC25CY

**PEIMS Number:** 13000700

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. *This course satisfies a 4th Science credit for the Foundation High School Graduation Plan with Endorsement therefore it counts in MFISD GPA/class rank.*

## **Plant Science**

### **Career & Technical Student Organization - FFA**

#### **Principles of Agriculture (8-12)**

**Prerequisites:** None

**MFHS Number:** CAG10Y

**PEIMS Number:** 13000200

This is the introduction course for Agriculture Science Classes. All agricultural areas are covered including FFA, Parliamentary Procedure, Soil, Plant, Animal, Food and Environmental Science. There will also be a small introduction to Agricultural Mechanics.

#### **Horticulture Science (9-12)**

**Prerequisites: Principles of Agriculture****MFHS Number: CAG45Y****PEIMS Number: 13002000**

This course is designed to improve knowledge of the home gardener as well as those seeking a career in horticulture. Students will learn the basic requirements of plant growth, and reproduction. Stages of plant life will be covered and different ways to produce plants. Soil fertility, plant nutrients, and propagations will be some of the topics covered.

**Greenhouse Operations & Production (9-12)****Prerequisites: Principles of Agriculture****MFHS Number: CAG35Y****PEIMS Number: 13002050**

To be prepared for careers in horticultural systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to horticulture and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills in a variety of settings. This course is designed to develop an understanding of common horticultural management practices as they relate to food and ornamental greenhouse plant production.

**Floral Design (9-12)****Prerequisites: None****MFHS Number: CAG25Y****PEIMS Number: 13001800**

In this course, students will learn the principles and elements of floral design and the basic skills of making floral arrangements. This is a lab-based class where students will be making arrangements from Homecoming Mums, Holiday centerpieces, corsages and boutonniere. *This course will meet Fine Arts credit requirements.* **Students will prepare to take the Texas State Floral Association Skills Knowledge Based Certification.**

**Advanced Floral Design (10-12)****Prerequisites: Floral Design I****MFHS Number: CAG55Y****PEIMS Number: N1300270**

In this course, students will learn advanced floral design skills. This is a lab-based class where students will be making arrangements from Homecoming Mums to Holiday centerpieces. Students will learn skills to not only design but to operate a floral retail store and how to design for major events such as weddings, funerals, and conventions. Students will assist Floral Design I students in basic floral design. **Students will prepare to take the Texas State Floral Association Skills Level One Floral Certification.**

**Advanced Plant & Soil Science (11-12)****Prerequisites: Biology, and Horticulture Science or Greenhouse Operations & Production****Can be taken for 4<sup>th</sup> science.****MFHS Number: SC35CY****PEIMS Number: 13002100**

Advanced Plant & Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, and there are still applications to be discovered, and that plant and soil science is a basis for many other fields of science. To prepare for a career in plant and soil science, students must attain academic skills and knowledge, and acquire technical skills related to the workplace. *This course satisfies a 4th Science credit for the Foundation High School Graduation Plan with Endorsement therefore it counts in MFISD GPA/class rank..*

## **Agriculture Technology and Mechanical Systems (WELDING)**

Career & Technical Student Organization - FFA & Skills USA

### **Ag Mechanics & Metal Technologies (9-12)**

**MFHS Number: CAG11Y**

**PEIMS Number: 13002200**

Agriculture and Metal Technologies is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete and metal working techniques. This course will go over safety, basic operation of power tools, woodworking, and metal working tools. To prepare for careers in agricultural power, structural, and technical systems, students must attain academic and technical skills and knowledge regarding career opportunities, entry requirements, industry certification and expectations. (Students will be required to meet safety standards before working in the shop/metal lab.) **Students will prepare and test for the industry-standard AWS D1.1 certification.**

### **Ag Structures Design and Fabrication (10-12)**

**Prerequisites: Ag Mechanics & Metal Technologies**

**MFHS Number: CAG21Y**

**PEIMS Number: 13002300**

In Agricultural Structures Design and Fabrication, students will explore career opportunities, entry requirements, and industry certification. Students will learn the necessary skills for mastery of welding, agricultural power, structural, and technical systems. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural structures design and fabrication. Students can expect to learn how to individually, and in groups, prepare project plans, presentation materials, and presentations. The students will prepare their projects for competitions as well as exploring the business model of building and selling their projects.

### **Ag Equipment Design and Fabrication (11-12)**

**Prerequisites: Ag Structures Design and Fabrication**

**MFHS Number: CAG31Y**

**PEIMS Number: 13002350**

In Agriculture Equipment Design and Fabrication, students will acquire knowledge and skills related to the design and fabrication of agriculture equipment using welding technology.

### **Ag Power Systems, 2 Credits (11-12)**

**Prerequisites: Ag Structures Design and Fabrication**

**MFHS Number: CAG42Y**

**PEIMS Number: 13002400**

This course is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, small and large power systems and metal working techniques. To prepare for careers in agricultural power, structural, and technical systems, students must attain academic skills and knowledge related to agriculture systems in the workplace.

### **Practicum in Agriculture (Welding) 2 Credits (12)**

**Prerequisites: Any of the following two: Agricultural Mechanics and Metal Technologies; Agricultural Structures Design and Fabrications; Agricultural Power Systems; and Agricultural Equipment Design and Fabrication**

**MFHS Number: CAG52Y**

**PEIMS Number: 13002500**

*If more students seek enrollment in the Practicum than seats available, a rubric is used to rank all students on the same criteria based on attendance, discipline, number of courses taken in the pathway.*

This practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources cluster. The practicum is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. Materials fee may be required for this course. **Students will prepare and test for the industry-standard AWS D9.1 certification.**

## **Carpentry (CONSTRUCTION)**

**Career & Technical Student Organization - Skills USA**

### **Principles of Construction (9-12)**

**Prerequisites: None**

**MFHS Number: CCO10Y**

**PEIMS Number: 13004220**

An introductory course that explores the careers and skills associated with the construction industry. Students can expect the following concepts and activities to be covered in this course: tool use, power tool use, construction plan drawing/reading, construction math, and construction and design industry career exploration. Construction lab skills will include the construction of a hand tool project, the construction of a power tool project, and an architectural design and drafting project. (Students must meet safety standards before working in the shop/metal lab.)

### **Construction Technology 1 (2 credit) (10-12)**

**Prerequisites: Principles of Construction**

**MFHS Number: CCO22Y**

**PEIMS Number: 13005100**

This course covers the plumbing, electrical, cabinetry, and home building project management process. Students can expect the following concepts and activities to be covered in this course: plumbing plans and codes, plumbing tools, materials and fixtures, electrical plans and codes, electrical tools, materials and fixtures, cabinetry design and shop plans, and cabinetry hardwoods and materials. **Students will prepare and test for the industry-standard NCCER Core Certification.**

### **Construction Technology 2 (2 credit) (11-12)**

**Prerequisites: Construction Technology I**

**MFHS Number: CCO32Y**

**PEIMS Number: 13005200**

Students will build on the knowledge from Construction Tech I and be introduced to exterior and interior finish-out skills.

### **Practicum in Construction Technology (2 Credit) (12)**

**Prerequisites: 2 years in the Carpentry Pathway**

**MFHS Number: CCO42Y**

**PEIMS Number: 13005250**

*If more students seek enrollment in the Practicum than seats available, a rubric is used to rank all students on the same criteria based on attendance, discipline, number of courses taken in the pathway.*

This practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Carpentry pathway. The practicum is designed to give students supervised practical application of knowledge and skills gained in previous construction-related coursework. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences. This course will be project-based. Students are required to pay a supply fee of \$20 to assist with the cost of materials.

Students will prepare and test for the industry-standard NCCER Carpentry Level I certification.

## ARTS, AUDIO/VIDEO TECHNOLOGY, & COMMUNICATIONS

### Digital Communications

Career & Technical Student Organization - BPA (Business Professionals of America)

#### Principles of Audio/Video (AV) Technology & Communications (8-12)

**Prerequisites:** None

**MFHS Number:** CAV10Y

**PEIMS Number:** 13008200

Students will build a basic foundation of pre-production, production and post-production techniques. They will develop skills using cameras, microphones, and industry-standard design, production and post-production software. Through guided practice and projects, they will explore individual expression, practice teamwork, and learn how to critically analyze their work to further their artistic growth.

#### Audio Visual Production 1 (9-12)

**Prerequisites:** Principles of Audio/Video (AV) Technology & Communications

**MFHS Number:** CAV20Y

**PEIMS Number:** 13008500

This course further explores audio and visual production, including introductions to sound editing and video/graphic editing programs. Students can also expect hands-on training with and use of A/V Studio equipment to produce live and recorded video. Projects in this course include entertainment program production, capturing class and campus events, and independent creative projects.

#### Audio Visual Production 2 (1 credit) (10-12)

**Prerequisites:** Audio Video Production I

**MFHS Number:** CAV30Y

**PEIMS Number:** 13008600

Students will develop an advanced understanding of pre-production, production, and post-production techniques, including advanced videography, screenwriting, editing and special effects. Projects in this class include producing community-based projects, UIL competition films, and individual creative projects.

#### Practicum in Audio Video Production (2 credit) (11-12)

**Prerequisites:** Audio Video Production II

**MFHS Number:** CAV52Y- First Time Taken / CAV53Y - Second Time Taken

**PEIMS Number:** 13008700 - First Time Taken / 13008710 - Second Time Taken

*If more students seek enrollment in the Practicum than seats available, a rubric is used to rank all students on the same criteria based on attendance, discipline, number of courses taken in the pathway.*

Careers in Audio Video Production span many different industries. Within this context, in addition to developing technical knowledge and skills through independent creative projects, students will develop an understanding of career opportunities available to them by completing A/V “internal internships” for local businesses. These students will also complete a digital portfolio and demo reel to showcase their work to institutions of higher learning and potential employers. **Students will prepare and test for the industry-standard Adobe Premiere Pro Certification.**

## Graphic Design & Interactive Media

Career & Technical Student Organization - BPA (Business Professionals of America)

### Principles of Audio/Video (AV) Technology & Communications (8-12)

**Prerequisites:** None

**MFHS Number:** CAV10Y

**PEIMS Number:** 13008200

Students will build a basic foundation of pre-production, production and post-production techniques. They will develop skills using cameras, microphones, and industry-standard design, production and post-production software. Through guided practice and projects, they will explore individual expression, practice teamwork, and learn how to critically analyze their work to further their artistic growth.

### Graphic Design & Illustration 1 (9-12)

**Prerequisites:** Principles of Audio/Video (AV) Technology & Communications

**MFHS Number:** CAV60Y

**PEIMS Number:** 13008800

This course is a study in the use of various types of media ranging from traditional drawing to electronic equipment to generate traditional art forms and visual special effects. Students will use skills and knowledge in a variety of applications such as commercial art and visual stimulations. Students will use programs that are used in the graphic design field. Students will work in Adobe Photoshop and Adobe InDesign and be introduced to Adobe Illustrator.

### Graphic Design & Illustration 2 (10-12)

**Prerequisites:** Graphic Design I

**MFHS Number:** CAV70Y

**PEIMS Number:** 13008900

This course is an advanced study in the use of various types of media focusing on the use of electronic equipment to create commercial art used in the advertising and promotions industry. Students will focus their study through several “real world” projects involving design and presentation to meet client needs. Students will use programs that are used in the graphic design field. Students will work in Adobe Photoshop and Adobe InDesign and be introduced to Adobe Illustrator. **Students will prepare and test for the industry-standard Adobe Photoshop certification.**

### Practicum in Graphic Design & Illustration (2 credits) (12)

**Prerequisites:** Graphic Design II

**MFHS Number:** CAV82Y - First Time Taken / CAV83Y - Second Time Taken

**PEIMS Number:** 13009000 - First Time Taken / 13009010 - Second Time Taken

*If more students seek enrollment in this class than the seats available, a rubric is used to rank all students on the same criteria based on attendance, discipline, and number of courses taken in the pathway.*

In addition to developing technical knowledge and skills needed for success in the Arts, A/V Technology and In addition to developing the technical knowledge and skills needed for success in the Arts, A/V Technology, and Communications Career Cluster, students will be expected to develop a technical understanding of the industry with a focus on skill proficiency. **Students will prepare and test for the industry-standard Adobe Illustrator certification.**

## Graphic Design & Interactive Media (Photography/Yearbook focus)

## Career & Technical Student Organization - BPA (Business Professionals of America)

### **Principles of Audio/Video Technology & Communications (8-12)**

**Prerequisites:** None

**MFHS Number:** CAV10Y

**PEIMS Number:** 13008200

Students will build a basic foundation of pre-production, production and post-production techniques. They will develop skills using cameras, microphones, and industry-standard design, production and post-production software. Through guided practice and projects, they will explore individual expression, practice teamwork, and learn how to critically analyze their work to further their artistic growth.

### **Commercial Photography 1/Yearbook I (9-12)**

**Prerequisites:** Principles of Audio/Video Technology & Communications

**MFHS Number:** CAV90Y

**PEIMS Number:** 13009100

*If more students seek enrollment in the second, third, and Practicum classes than seats available, a rubric is used to rank all students on the same criteria based on attendance, discipline, and number of courses taken in the pathway.*

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. Additionally, students will have the opportunity to create and design and produce the school yearbook. Students will be introduced to all phases of yearbook production. Students will learn content around audience and function, theme development, section development, reporting and writing, headlines, photos and captions, design, graphics. money matters and distribution. Student performance-oriented activities will be required as part of the course. Students enrolled in this course will be responsible for producing the school's yearbook. Students will use the software programs Adobe Photoshop, InDesign, and Illustrator.

### **Commercial Photography 2/Yearbook 2 (10-12)**

**Prerequisites:** Commercial Photography 1/Yearbook 1

**MFHS Number:** CAV91Y

**PEIMS Number:** 13009200

*If more students seek enrollment in the second, third, and Practicum classes than seats available, a rubric is used to rank all students on the same criteria based on attendance, discipline, and number of courses taken in the pathway.* 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.

### **Practicum in Commercial Photography 3/Yearbook 3 (2 credits) (11-12)**

**Prerequisite:** Commercial Photography 2/Yearbook 2

**MFHS Number:** CAV92Y - First Time Taken / CAV93Y - Second Time Taken

**PEIMS Number:** 13009250 - First Time Taken / 13009260 - Second Time Taken

*If more students seek enrollment in the second, third, and Practicum classes than seats available, a rubric is used to rank all students on the same criteria based on attendance, discipline, and number of courses taken in the pathway.*

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.

## **BUSINESS, MARKETING & FINANCE**



## Marketing & Sales

### Career & Technical Student Organization - BPA (Business Professionals of America)

#### **Principles of Business, Marketing and Finance (9-12)**

**Prerequisites:** None

**MFHS Number:** CBU11Y

**PEIMS Number:** 13011200

Students gain knowledge and skills in economies and private enterprise systems, global business impact, goods and services marketing, advertising, and product pricing. Students analyze the sales process and financial management principles. The 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.

#### **Social Media Marketing - .5 credit (10-12)**

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

**MFHS Number:** CBU31S

**PEIMS Number:** 13034650

Social Media Marketing is designed to look at the rise of social media and how marketers are integrating social media tools into an overall marketing strategy. The course will investigate how the marketing community measures success in the new world of social media. Students will manage a successful social media presence for an organization, understand techniques for gaining customer and consumer buy-in to achieve marketing goals, and properly select social media platforms to engage customers and monitor and measure the results of these efforts. **Students will prepare and test for the industry-standard Student Social Media Marketing certification.**

#### **Sports & Entertainment Marketing - .5 credit (10-12)**

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

**MFHS Number:** CBU30S

**PEIMS Number:** 13034600

Sports and Entertainment Marketing will give students a thorough understanding of the marketing concepts and theories that apply to sports and entertainment. This course will cover basic marketing concepts, publicity, sponsorship, endorsements, licensing, branding, event marketing, promotions, and sports and entertainment marketing strategies.

#### **Statistics & Business Information Decision Making (11-12)**

**Prerequisites:** Algebra II

**MFHS Number:** MA45CY

**PEIMS Number:** 13016900

Students will use mathematical models to ask intelligent questions about the world. Students will learn how to determine the reliability of information they are given in the business world as well as society and will learn techniques to question "conventional wisdom." Students will achieve this by focusing on probability and patterns to analyze data and make predictions. *This course satisfies a 4th math credit for the Foundation High School Graduation Plan with Endorsement therefore it counts in MFISD GPA/class rank.*

#### **Practicum of Entrepreneurship - The Stables (2 Credits) (12)**

**Prerequisites:** Principles of Business, Marketing & Finance OR Entrepreneurship OR Sports & Entertainment Marketing AND Social Media Marketing

**MFHS Number:** CBU42Y

**PEIMS Number:** N1303425

*If more students seek enrollment in the Practicum than seats available, a rubric is used to rank all students on the same criteria based on attendance, discipline, number of courses taken in the pathway.*

The Practicum in Entrepreneurship provides students the opportunity to apply classroom experiences to real-world business problems and opportunities, while expanding their skill sets and professional relationships as a real or simulated business owner versus the experience one would have as an employee. Students will prepare for an entrepreneurial career in their area of interest in their career cluster and apply the knowledge and skills gained from courses taken in an array of career areas. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. **Students will prepare and test for the industry-standard Entrepreneurship & Small Business certification.**

## Entrepreneurship

### Career & Technical Student Organization - BPA (Business Professionals of America)

#### **Principles of Business, Marketing and Finance (9-12)**

**Prerequisites:** None

**MFHS Number:** CBU11Y

**PEIMS Number:** 13011200

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. The 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.

#### **Money Matters (9-12)**

**Prerequisites:** None

**MFHS Number:** CBU20Y

**PEIMS Number:** 13016200

Students will investigate many different aspects of money management from a personal financial perspective. Students apply critical thinking skills to analyze financial options based on current and projected economic factors. Students will also look at the financial aspects of paying for college, choosing a career, becoming an entrepreneur, and acquiring interview and job-searching tips. Students will gain the knowledge and skills necessary to budget, spend wisely, and set long-term financial goals based on those options. Students will explore investment, tax planning, asset allocation, risk management, retirement planning, and estate planning. Recommended for students grades 9-12 from any career track.

#### **Entrepreneurship (10-12)**

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

**MFHS Number:** CBU30Y

**PEIMS Number:** 13034400

Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining the feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services.

#### **Practicum in Business Management - The Stables (2 Credits) (11-12)**

**Prerequisites:** Principles of Business, Marketing & Finance OR Entrepreneurship

**MFHS Number 1st Year:** CBU52Y

**PEIMS Number: 1st Year - 13012200**

*If more students seek enrollment in the Practicum than seats available, a rubric is used to rank all students on the*

*same criteria based on attendance, discipline, and number of courses taken in the pathway.*

The Practicum is designed to give students supervised practical application of previously studied knowledge and skills. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.

### **Practicum of Entrepreneurship - The Stables (2 Credits) (12)**

**Prerequisites: Principles of Business, Marketing & Finance OR Entrepreneurship**

**MFHS Number: CBU42Y**

**PEIMS Number: N1303425**

*If more students seek enrollment in the Practicum than seats available, a rubric is used to rank all students on the same criteria based on attendance, discipline, number of courses taken in the pathway.*

The Practicum in Entrepreneurship provides students the opportunity to apply classroom experiences to real-world business problems and opportunities, while expanding their skill sets and professional relationships as a real or simulated business owner versus the experience one would have as an employee. Students will prepare for an entrepreneurial career in their area of interest in their career cluster and apply the knowledge and skills gained from courses taken in an array of career areas. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. **Students will prepare and test for the industry-standard Entrepreneurship & Small Business certification.**

## **EDUCATION & TRAINING**

### **Teaching & Training**

**Career & Technical Student Organization - FCCLA (Family, Career & Community Leaders of America)**

### **Principles of Education & Training (9-12)**

**Prerequisites: None**

**MFHS Number: CTT10Y**

**PEIMS Number: 13014200**

This is the introductory course designed to introduce learners to the various careers available within Education & Training. Students use self-knowledge as well as educational and career information to analyze various careers within the Education and Training Career Cluster. Students will research, interview and shadow careers in education and learn about training and professional development options associated with a career in Education.

### **Human Growth & Development (10-12)**

**Prerequisites: None**

**MFHS Number: CTT20Y**

**PEIMS Number: 13014300**

Human Growth and Development is an examination of human development across the lifespan with an emphasis in research, theoretical perspectives, and common physical, cognitive, emotional and social developmental milestones.

### **Ready, Set, Teach! Instructional Practices (2 Credits) (11-12)**

**Prerequisites: Principles of Education and Training**

**Recommended Prerequisite: Human Growth and Development**

**MFHS Number: CTT32Y**

**PEIMS Number: 13014400**

*If more students seek enrollment in the Practicum than seats available, a rubric is used to rank all students on the same criteria based on attendance, discipline, number of courses taken in the pathway.*

Have you thought about a career working with children? This is a lab class that addresses the knowledge and skills related to child growth and guidance equipping students to develop positive relationships with children, effective caregiver skills, principles in early childhood development. Students will have the opportunity to apply the skills learned in a local elementary school.

### **Ready, Set, Teach! Practicum in Education and Training (2 credits) (12)**

**Prerequisites: Instructional Practices**

**MFHS Number: CTT42Y**

**PEIMS Number: 13014500**

*If more students seek enrollment in the Practicum than seats available, a rubric is used to rank all students on the same criteria based on attendance, discipline, number of courses taken in the pathway.* This is a field-based internship that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and training. Students will have the opportunity to apply the skills learned in a local elementary school. **Students will have the opportunity to earn an Educational Aide I certification at the end of the year or when they turn 18.**

## **HEALTH SCIENCE**

### **Diagnostic and Therapeutic Services**

**Career & Technical Student Organization - HOSA (Health Occupation Students of America)**

#### **Principles of Health Science (9-12)**

**Prerequisites: None**

**MFHS Number: CHS10Y**

**PEIMS Number: 130202000**

Designed to develop health-care-specific knowledge and skills in effective communications, ethical and legal responsibilities, client care, safety, first aid, and CPR; this course prepares the student for the transition to clinical or work-based experiences in health care. Students will have the opportunity to join and participate in the HOSA organization.

#### **Medical Terminology (10-12)**

**Prerequisites: none**

**MFHS Number: CHS30Y**

**PEIMS Number: 13020300**

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.

#### **Health Science Theory (10-12)**

**Prerequisites: Principles of Health Science & Biology**

**MFHS Number: CHS20Y**

**PEIMS Number: 13020400**

This course extends the knowledge gained in Principles of Health Science, specifically emphasizing healthcare

worker skills in a classroom setting and medical terminology. Emphasis is also placed on therapeutic communication and leadership/teamwork skills. **Students will have the opportunity to test for Basic Life Support (BLS) certification (healthcare provider CPR), which requires hands-on practice.** This results in students who are well prepared to enter the Practicum in Health Science course.

### **Anatomy and Physiology (11-12)**

**Prerequisites: Biology and 1 additional science credit.**

**Recommended prerequisite: a course from the Health Science Career Cluster**

**MFHS Number: SC15CY**

**PEIMS Number: 13020600**

This course covers the structure and function of the human body, from the molecular level through organ systems. Laboratories will include work with microscopes, dissections, and physiology exercises. This course is designed for students who: 1) are seeking additional experience in biology, specifically in regards to the human body; 2) are planning a career in the medical or allied health fields; 3) are planning to major in biology in college. *This course satisfies a 4th science credit for the Foundation High School Graduation Plan with Endorsement therefore it counts in MFISD GPA/class rank.*

### **Medical Microbiology (11-12) (offered every other year - even years)**

**Prerequisites: Biology and Chemistry**

**MFHS Number: SC65CY**

**PEIMS Number: 13020700**

Students will study the relationships of microorganisms to wellness and disease. They develop knowledge and skills related to disease prevention by learning the chain of infection, asepsis, and standard precautions. Pathogenic and nonpathogenic organisms will be identified to assist in the understanding of specific diseases, causative agents, and treatment options. *This course satisfies a 4th science credit for the Foundation High School Graduation Plan with Endorsement therefore it counts in MFISD GPA/class rank. .*

### **Pathophysiology (11-12) (offered every other year - odd years)**

**Prerequisites: Biology and Chemistry**

**MFHS Number: SC55CY**

**PEIMS Number: 13020800**

Students study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of diseases. Students will differentiate between normal and abnormal physiology. *This course satisfies a 4th science credit for the Foundation High School Graduation Plan with Endorsement therefore it counts in MFISD GPA/class rank. .*

### **Pharmacology (12)**

**Prerequisites: Biology, Chemistry, Health Science Theory**

**MFHS Number: CHS40Y**

**PEIMS Number: 13020950**

This course provides students with knowledge and skills in the study of pharmacological agents and 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 more time and education from healthcare workers. **Students will prepare for and test for the Pharmacy Technician certification.**

### **Practicum in Health Science – CCMA (2 Credits) (12)**

**Prerequisites: Health Science Theory**

**MFHS Number: First Time - CHS42Y / Second Time: CHS72Y**

**PEIMS Number: First Time - 13020500 / Second Time - 13020510**

*If more students seek enrollment in the Practicum than seats available, a rubric is used to rank all students on the same criteria based on attendance, discipline, number of courses taken in the pathway.*

Designed to provide for the development of multi-occupational knowledge and skills related to various health careers, students will have hands-on experiences by visiting healthcare facilities around the community. Students must have their own transportation. **Students will prepare and test for the Certified Clinical Medical Assistant exam.**

*Every student enrolled in a health science practicum will undergo drug testing and a background check at the beginning of the course. If a student tests positive, he/she will be allowed one retest but will not be allowed to attend clinicals until documentation of a negative retest is on file. The student will be assigned alternate assignments and remain on campus during clinical times. At the semester, they will be removed from the class.*

### **Practicum in Health Science – EMT (2 Credits) (12)**

**Prerequisites:** Health Science Theory

**MFHS Number:** First Time - CHS42Y / Second Time: CHS72Y

**PEIMS Number:** First Time - 13020500 / Second Time - 13020510

*If more students seek enrollment in the Practicum than seats available, a rubric is used to rank all students on the same criteria based on attendance, discipline, and number of courses taken in the pathway.*

EMT-Basic classes prepare the student for Nationally Registered Emergency Medical Technician certification - Basic with the National Registry of Emergency Medical Technicians. **Once a student successfully completes the requirements for the National Registry, he or she may become certified by the Texas Department of State Health Services EMS Division as an EMT-B upon graduation from high school.** Some hours outside of the school day will be required. EMT is a college-level course.

*Every student enrolled in the Emergency Medical Technician Program will undergo drug testing and a background check at the start of the course. If the student tests positive at any time, he/she will not be allowed to attend the clinical site and will be unable to gain a course completion for the National Registry of EMT testing. If this occurs during the first semester, the student will be removed from the course at the semester.*

## **HOSPITALITY & TOURISM**

### **Travel, Tourism & Attractions**

**Career & Technical Student Organization - FCCLA (Family, Career & Community Leaders of America)**

#### **Principles of Hospitality & Tourism (9-12)**

**Prerequisites:** None

**MFHS Number:** CHT10Y

**PEIMS Number:** 13022200

Students will understand that personal success in the hospitality and tourism industry depends on personal effort by demonstrating a proactive understanding of self-responsibility and self-management, explaining the characteristics of personal values and principles, displaying positive attitudes and good work habits, and developing strategies for achieving accuracy and organizational skills. Students will also practice personal management by developing time management, decision-making, and prioritizing skills by working independently and in group hospitality and tourism-focused projects.

#### **Travel & Tourism Management (10-12)**

**Prerequisites:** none

**MFHS Number:** CHT20Y

**PEIMS Number:** 13022500

This course 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. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

### **Entrepreneurship (10-12)**

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

**MFHS Number: CBU30Y**

**PEIMS Number: 13034400**

Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining the feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services.

### **Practicum in Hospitality Services (2 Credits) (12)**

**Prerequisites: Principles of Hospitality & Tourism**

**MFHS Number: CHT42Y**

**PEIMS Number: 13022900**

*If more students seek enrollment in the Practicum than seats available, a rubric is used to rank all students on the same criteria based on attendance, discipline, and number of courses taken in the pathway.*

Practicum in Hospitality Services is the 2nd year program for students interested in a hospitality industry internship. The course allows opportunities for students to learn through classroom instruction and interning at a local hotel or other hospitality-related business. Students will develop employability skills, job-specific skills related to individual training plans, communication skills, and career portfolio development. The goal of the program is to prepare hospitality students with a variety of skills for a fast-paced workplace, as well as prepare students for post-secondary and career success. Students must provide their own transportation to and from field sites.

## **SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS**

### **Engineering Foundations - Engineering Focus**

**Career & Technical Student Organization - TSA (Technology Student Association)**

#### **Engineering Essentials - *Project Lead The Way* (9-12)**

**Prerequisites: None**

**MFHS Number: CST10Y**

**PEIMS Number: N1303760**

Students explore the breadth of engineering career opportunities and experiences as they solve engaging and challenging real-world problems like creating a natural relief center system or creating a solution to improve safety and the well-being of local citizens. The Project Lead the Way (PLTW) Engineering Essentials curriculum is used in this course.

#### **Introduction to Engineering Design - *Project Lead The Way* (10-12)**

**Prerequisites: Algebra I; Engineering Essentials or Principles of Applied Engineering**

**MFHS Number: CST60Y**

**PEIMS Number: N1303742**

Students dig deep into the engineering design process, applying math, science, and engineering standards to

hands-on projects like designing a new toy or improving an existing product. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work. **Students learn to use the AutoCad software and prepare to take the industry-based Autodesk Associate (AutoCad) certification.**

### **Aerospace Engineering - Project Lead The Way (11-12)**

**Prerequisites: Algebra I; Engineering Essentials or Principles of Applied Engineering**

**MFHS Number: CST70Y**

**PEIMS Number: N1303745**

This course propels students' learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software. They also explore robot systems through projects such as remotely operated vehicles.

### **Scientific Research & Design (12)**

**Prerequisites: Biology, Chemistry, IPC or Physics, Engineering Design & Problem Solving**

**MFHS Number: SC85CY**

**PEIMS Number: 13037200**

This is a one period option for 12th grade Engineering pathway students.

This 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.

*This course satisfies a 4th science credit for the Foundation High School Graduation Plan with Endorsement, therefore it counts in MFISD GPA/class rank.*

### **Practicum in Science, Technology, Engineering and Mathematics (2 credits) (11-12)**

**Prerequisites: Algebra I, Geometry, 2 other STEM Career Cluster Courses**

**MFHS Number: CST52Y**

**PEIMS Number: 13037400**

*If more students seek enrollment in the Practicum than seats available, a rubric is used to rank all students on the same criteria based on attendance, discipline, number of courses taken in the pathway.*

Practicum in STEM is designed to give students supervised practical application of previously studied knowledge and skills. Students in Practicum can participate in the class project and/or participate in an approved internship with a STEM business. Students who choose to participate in an internship must provide their own transportation. Part of their class grade will be based on an evaluation by the internship supervisor.

## **Engineering Foundations - Robotics Focus**

**Career & Technical Student Organization - TSA (Technology Student Association)**

### **Engineering Essentials - Project Lead The Way (9-12)**

**Prerequisites: None**

**MFHS Number: CST10Y**

**PEIMS Number: N1303760**

Students explore the breadth of engineering career opportunities and experiences as they solve engaging and challenging real-world problems like creating a natural relief center system or creating a solution to improve safety and the well-being of local citizens. The Project Lead the Way (PLTW) Engineering Essentials curriculum is used in this course.

### **Robotics I (9-12)**

**Prerequisites: Principles of Applied Engineering or Engineering Essentials**



**MFHS Number: CST40Y**

**PEIMS Number: 13037000**

Students will develop skills in mechanical design (CAD), and construction as they work in teams to build and operate simple and complex robotic devices. Students will explore the usage of robotics in modern business and industry and examine how robotic devices are affecting society and shaping culture. Students will apply concepts learned in physical science and physics classes to mechanical devices. **Students will learn how to operate the FANUC Industrial Robotic Controller and have prepared to become a certified FANUC I operator.**

**Robotics II (10-12)**

**Prerequisite: Robotics I**

**MFHS Number: CST50Y**

**PEIMS Number: 13037050**

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.

**Scientific Research & Design (12)**

**Prerequisites: Biology, Chemistry, IPC or Physics, Engineering Design & Problem Solving**

**MFHS Number: SC85CY**

**PEIMS Number: 13037200**

This is a one period option for 12th grade Engineering pathway students.

This 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.

*This course satisfies a 4th science credit for the Foundation High School Graduation Plan with Endorsement, therefore it counts in MFISD GPA/class rank.*

**Practicum in Science, Technology, Engineering and Mathematics (2 credits) (11-12)**

**Prerequisites: Algebra I, Geometry, 2 other STEM Career Cluster Courses**

**MFHS Number: CST52Y**

**PEIMS Number: 13037400**

*If more students seek enrollment in the Practicum than seats available, a rubric is used to rank all students on the same criteria based on attendance, discipline, number of courses taken in the pathway.*

Practicum in STEM is designed to give students supervised practical application of previously studied knowledge and skills. Students in Practicum can participate in the class project and/or participate in an approved internship with a STEM business. Students who choose to participate in an internship must provide their own transportation. Part of their class grade will be based on an evaluation by the internship supervisor.

# Early College High School

The Marble Falls HS-Early College High School will begin in the Fall of 2024 with the class of 2028 being the first cohort. MFHS-ECHS will partner with Northeast Lakeview College (NLC) from the Alamo Colleges district in San Antonio to offer high-quality and rigorous dual credit courses free of charge for **all** students. Courses from UT OnRamps will also be included in the ECHS pathway at no charge for ECHS students.

ECHS students have the opportunity to earn a 60-hour Associate of Arts degree from NLC, complete the Core-42 program, or enroll in dual credit courses that fit their schedule and future plans. It is important to know that ECHS has a pathway for all students.

The courses listed below are only open to ECHS students. Please visit the MFHS-ECHS website for potential course offerings and further information. <https://sites.google.com/marblefallsisd.org/mfhsechs>

## **College Transition ECDC (EDUC 1300)**

**Prerequisites: Must be an ECHS student**

**MFHS Number: OE30DS**

**PEIMS Number: N1290050**

A study of the 1) research and theory in the psychology of learning, cognition, and motivation, 2) factors that impact learning, and 3) application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned. **This course is a 1 semester course and will be taken the Fall semester of the Freshman year. This course does not count towards GPA and rank.**

### **Transferability**

TCCNS: EDUC 1300

3 College Credits

## **Music Appreciation ECDC (MUSI 1306)**

**Prerequisites: Must be an ECHS student**

**MFHS Number: FM10DS**

**PEIMS Number: 03155600**

Understanding music through the study of cultural periods, major composers, and musical elements. Illustrated with audio recordings and live performances. This course fulfills the Creative Arts foundational component area of the core and addresses the following required objectives: Critical Thinking, Communication, Teamwork, and Social Responsibility. **This course is a 1 semester course and will be taken the Spring semester of the Freshman year. Fine arts credit will also be earned for high school credit. This course does not count towards GPA and rank.**

### **Transferability**

TCCNS: MUSI 1306

3 College Credits