# TULOSO-MIDWAY
# HIGH SCHOOL


# COURSE DESCRIPTION GUIDE
# 2022-2023

# WELCOME TO TULOSO-MIDWAY ISD

Dear Students:

We are pleased to have the opportunity to work with you as you choose your courses for next year.

Careful consideration should be given to course selections to ensure an appropriate and effective class schedule. Attention must be given to graduation plans so that specific requirements are met regarding future plans for college, technical school, and personal goals.

This booklet is designed to inform and guide you in establishing your class schedule. Actions by the local or state school board, TEA, or the state legislature, may make course information in this booklet obsolete or inaccurate. The staff at Tuloso-Midway High School will explain information to you before registration. Should you need additional assistance, you may call our office at 903-6780 or visit the high school's Counselors' Corner page at www.tmisd.us.

Sincerely,

Alcario G. Alvarado
*Principal*

Lamar Cardenas, Stacy Lucas, & Priscilla Vega
*Assistant Principals*

Enrique Ruiz Jr.
*Dean of Instruction*

Kavita Bhakta, Annette Hinojosa, Pearlie Martinez,
Lora Casarez, Jennifer Stark, & Rosalinda Zavala
*Guidance Department*

*Tuloso-Midway ISD does not discriminate on the basis of race, color, national origin, sex, handicap, or limited English proficiency.*

# TABLE OF CONTENTS

# WEIGHTED COURSES

| UIL Exempt for "No Pass No Play" * | NOT EXEMPT (Ineligible) |
|---|---|

| | |
|---|---|
| Advanced Animal Science (Science) | Advanced Floral Design |
| Algebra 1 & 2 Honors | Art Honors: Studio Art-Drawing Portfolio |
| Anatomy & Physiology Honors | Athletics Honors (*Advanced Measures Required*) |
| Biology 1 Honors | Band Honors (*Advanced Measures Required*) |
| Chemistry Honors | Cheerleading Honor (*Advanced Measures Required*) |
| College Algebra UT On Ramps | Debate 2 & 3 Honors |
| Discovery Precalculus: Preparation for Calculus UT OnRamps | Drill Team Honors (*Advanced Measures Required*) |
| Economics Honors | Humanities 1 (Academic Decathlon 1) |
| English 1, 2, & 3 Honors | Independent Study in English 1-3 (Academic Decathlon 2-4) |
| English 4 UT On Ramps | Independent Study in Speech (Debate 4 Honors) |
| Engineering Design & Problem Solving (*If Taken As 4th Science*) | Oral Interpretation 2-4 Honors |
| Geometry Honors | Practicum of Agriculture, Food, & Natural Resources |
| Government Honors | Practicum of Audio/Visual Production |
| Introductory Biology I + Lab UT On Ramps | Practicum in Commercial Photography |
| Physics Honors | Practicum in Culinary Arts |
| Physics 1 UT OnRamps | Practicum of Health Science - Dental Science |
| Physics 2 UT OnRamps | Practicum of Health Science - EKG/ Phlebotomy |
| Precalculus Honors | Practicum of Marketing |
| Precalculus UT OnRamps | Practicum of STEM |
| Scientific Research & Design | Welding 1 & 2 |
| Spanish 3 Honors | |
| Spanish 4 Honors | |
| Robotics 2 (*If Take As 4th Math*) | |
| W. Geography Honors | |
| W. History Honors | |
| U.S. History UT On Ramps | |

**§74.30. Identification of Honors Courses.***

(a) The following are identified as honors classes as referred to in the Texas Education Code, §33.081(d)(1), concerning extracurricular activities:

(1) all College Board Advanced Placement courses and International Baccalaureate courses in all disciplines;

(2) English language arts: high school/college concurrent enrollment classes that are included in the "Lower-Division Academic Course Guide Manual (Approved Courses)";
(3) Languages other than English: high school/college concurrent enrollment classes that are included in the "Lower-Division Academic Course Guide Manual (Approved Courses)"; American Sign Language, Level IV; American Sign Language, Advanced Independent Study; Level IV, Intermediate Mid to Intermediate High Proficiency; Level V, Intermediate High to Advanced Mid Proficiency; Level VI, Advanced Mid to Advanced High Proficiency; Level VII, Advanced High to Superior Proficiency; Seminar in Languages Other Than English, Advanced; Classical Languages, Level IV, Novice Mid to Advanced Mid Proficiency; Classical Languages, Levels V-VII, Novice High to Superior Low Proficiency; and Seminar in Classical Languages, Advanced;
(4) Mathematics: high school/college concurrent enrollment classes that are included in the "Lower-Division Academic Course Guide Manual (Approved Courses)" and Precalculus;
(5) Science: high school/college concurrent enrollment classes that are included in the "Lower-Division Academic Course Guide Manual (Approved Courses)"; and
(6) Social studies: Social Studies Advanced Studies, Economics Advanced Studies, and high school/college concurrent enrollment classes that are included in the "Lower-Division Academic Course Guide Manual (Approved Courses)."

(b) Districts may identify additional honors courses in the subject areas of English language arts, mathematics, science, social studies, or a language other than English for the purpose of this section, but must identify such courses prior to the semester in which any exemptions related to extracurricular activities occur.

(c) Districts are neither required to nor restricted from considering courses as honors for the purpose of grade point average calculation.
Statutory Authority: The provisions of this §74.30 issued under the Texas Education Code, §33.081.
Source: The provisions of this §74.30 amended to be effective October 28, 2019, 44 TexReg 6368.

# PERFORMANCE ACKNOWLEDGEMENTS

A student entering Grade 9 in the 2014-2015 school year and thereafter shall enroll in the courses necessary to complete the curriculum requirements for the Foundation High School Program (22 credits) specified in §74.12 of this title and the curriculum requirements for at least one endorsement (26 credits) specified in §74.13 of this title (relating to Endorsements).

A student may graduate under the Foundation High School Program without earning an endorsement if, after the student's sophomore year: (1) the student and the student's parent or person standing in parental relation to the student are advised by a school counselor of the specific benefits of graduating from high school with one or more endorsements; and (2) the student's parent or person standing in parental relation to the student files with a school counselor written permission, on a form adopted by the Texas Education Agency (TEA), allowing the student to graduate under the Foundation High School Program without earning an endorsement.

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 required by the Texas Education Code (TEC),§28.025(b-15), including four credits in science and four credits in mathematics to include Algebra II. Eligible for Top 10% Automatic Admission.

A student may earn a performance acknowledgement on their diploma and transcript for outstanding performance on any of the following: (1) Completing at least 12 hours of college academic courses including those taken for dual credit and advanced technical credit. (2) In bilingualism and biliteracy (3) on a college AP or IB exam (4) on the PSAT, ACT-ASPIRE, SAT or ACT (5) for earning a nationally or internationally recognized industry certification.

## Tuloso-Midway ISD Foundation High School Program (22 Credits)

| | | | | |
|---|---|---|---|---|
| **English** (4 credits) | •English 1 | •English 2 | •English 3 | • Advanced English |
| **Mathematics** (3 credits) | •Algebra 1 | •Geometry | •Advanced Math | |
| **Science** (3 credits) | •Biology | •Chemistry | •Advanced Science | |
| **Social Studies** (3 credits) | •World Geography | •World History | •US History | •US Gov't & Economics |
| **Language Other Than English** (2 credits) | | •2 credits of the same language | | |
| **Physical Education** (1 credit) | **Fine Arts** (1 credit) | **Technology** (1 credit) | **Electives** (5 credits) | |

A student may graduate under the foundation HS program without earning an endorsement if after their 10th grade year the student and parent are advised by a school counselor regarding the benefits of graduating with one or more endorsements and **the parent** files written acknowledgement with a school counselor.

### Foundation + Endorsement (26 credits)

Foundation High School Program plus 4 credits within a coherent sequence, STEM, Business & Industry, Public Service, Arts & Humanities, or Multidisciplinary.

# Performance Acknowledgments

## Dual Credit/ Dual Enrollment

- Successfully complete at least 12 hours of college academic courses with a grade of the equivalent of 3.0 or higher on a scale of 4.0
- Successfully complete an associate degree while in high school

## Bilingualism and Biliteracy

A student may earn a performance acknowledgment in bilingualism and biliteracy by demonstrating proficiency in accordance with local school district grading policy in two or more languages by:

(1) completing all English language arts requirements and maintaining a minimum GPA of 80 on a scale of 100;
(2) satisfying one of the following:

- completion of a minimum of three credits in the same language in a language other than English with a minimum GPA of 80 on a scale of 100; or
- demonstrated proficiency in the Texas Essential Knowledge and Skills for Level IV or higher in a language other than English with a minimum GPA of 80 on a scale of 100; or
- completion of at least three credits in foundation subject area courses in a language other than English with a minimum GPA of 80 on a scale of 100; or
- demonstrated proficiency in one or more languages other than English through one of the following methods:
- a score of 3 or higher on a College Board AP exam for a language other than English; or
- a score of 4 or higher on an IB exam for a higher level languages other than English course; or performance on a national assessment of language proficiency in a language other than English of at least Intermediate High or its equivalent
- In addition to meeting the requirements to earn a performance acknowledgment in bilingualism and biliteracy, an English language learner must also have:
  (A) participated in and met the exit criteria for a bilingual or English as a second language (ESL) program; and
  (B) scored at the Advanced High level on the Texas English Language Proficiency Assessment System (TELPAS)

## College AP/IB Exams

- Earn a score of 3 or above on a College Board advanced placement examination
- Earn a score of 4 or above on an International Baccalaureate examination

## College Entrance Exams

- Earn a score on the PSAT/NMSQT that qualifies the student for recognition as a commended scholar or higher by the College Board and National Merit Scholarship Corporation, as part of the National Hispanic Recognition Program (NHRP) of the College Board or as part of the National Achievement Scholarship Program of the National Merit Scholarship Corporation
- Achieve the college readiness benchmark score on at least two of the four subect tests on the ACT-ASPIRE exam
- 2018-2019 and later (applies to any SAT test taken after August 2018): The student's total evidence-based reading & writing and math scores is 1310 or higher.
- Earn a composite score on the ACT exam of 28 (excluding the writing subscore)

## Industry Certification

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

- Performance on an examination or series of examinations sufficient to obtain a nationally or internationally recognized business or industry certification or
- Performance on an examination sufficient to obtain a government required credential to practice a profession

# UNIVERSITY OF TEXAS DUAL ENROLLMENT

The UT-Austin OnRamps College Credit Program is a cooperative partnership between the Tuloso-Midway Independent School District (TMISD) and the University of Texas- Austin enabling high school students in the TMISD to pursue college credit hours while completing the requirements for high school graduation.

OnRamps works through a dual enrollment model. Using a hybrid delivery approach, students meet rigorous university-level college readiness standards and have the opportunity to earn UT Austin credit from a UT faculty member and high school credit from their local teacher. All OnRamps courses can be applied to the Texas Core Curriculum and are guaranteed to transfer to any public institution in Texas. OnRamps incorporates an organized data and action analytics approach to support students, teachers, and districts in their pursuit of educational excellence. For more information please visit the UT OnRamps website, https://onramps.utexas.edu/.

## How OnRamps Works

1. OnRamps students are enrolled in a yearlong high school course facilitated by a high school teacher who is trained and certified by OnRamps to teach the course on their local campus.
2. During the first half of the course, OnRamps students complete a series of required assignments that are designated by an Instructor of Record at the university to determine eligibility to be dually enrolled in the university course.
3. Students who successfully complete the high school version of the course receive credit from their local high school. In addition, students who successfully complete the college course receive core credits from the university guaranteed to transfer to any **public** college or university in Texas. **See grade acceptance clarification below.**
4. Exit policy: UT OnRamps instructor will review UT expectations upon enrollment. See counselor or administration for (TM High School credit exit policy) expectations and clarification.

## Earning College Credit

Eligible students may elect to enroll in an OnRamps college course for a letter grade or pass/fail. Students who select a pass/fail option must do so during the Credit Selection Type Period. The dates for the Credit Type Selection Period are provided in the college course syllabus.

If a student takes the college course for a letter grade and earns and accepts college credit, the letter grade the student earned in the course will appear on the student's university transcript. A letter grade of D- or better is considered passing. If a student takes the college course for pass/fail, and earns and accepts college credit, then "CR" (the symbol for "credit") will appear on the student's university transcript. If accepting course credit as pass/fail, students must check their prospective college/university to determine if “CR” will be accepted by the college/university of choice. Not all colleges/universities accept a pass/fail / “CR” submission.

OnRamps college credit earned for a letter grade of C- or above for courses with a Core Curriculum designation are required to transfer to any public education institution in the state of Texas. These are noted in the Texas Core Code column in the below table. See Tuloso-Midway ISD Grading Guidelines for earning high school credit.

Some OnRamps college courses have Texas Common Course Numbering System (TCCNS) equivalency numbers approved by UT Austin. **These are noted in the TCCNS Equivalency column on page 12.**

## Grade Reporting

While parents may communicate with the high school instructor about students' high school grades, the university Instructor of Record may not communicate with parents regarding students' college grades.
Under the Family Educational Rights and Privacy Act (FERPA), rights belong to the parents with respect to high school records and belong to the student with respect to post-secondary records—regardless of the student's age.
The University Instructors of Record will make every attempt to communicate with and through the student, as this is an important maturation point for college students.

## Transcripts

Students who earn and accept college credit in an OnRamps course may request a transcript from the university Registrar's office and have it sent to their chosen higher education institution. There is often a fee for each transcript requested.

OnRamps students CAN submit transcript requests through the UT Austin Registrar's online order system. Students must complete UT Austin's Transcript Request Form and submit it to the Registrar via mail, fax, or email. The Registrar charges $20 for each transcript requested.

For information about how to order a UT Austin transcript, visit the Office of the Registrar's website.

## Non-Enrollment Verification Letters

Students who participate in a UT Austin OnRamps course, but do not earn or accept college credit, may be required to provide a letter of non-enrollment to other colleges or universities, verifying that they have no UT Austin transcript for the course. To request a non-enrollment letter, students must email OnRamps Support.

## Transferability & Applicability

Each institution evaluates a student's transfer credits based on its own policies. Colleges and universities have different requirements that vary by school, college, and institution. **In order to determine how OnRamps college courses will transfer, and if they will apply to a student's major or degree program, the student must contact the higher education institution she, or he, plans to attend.**

## Available Courses - UT Alignment

| Subject | OnRamps Course Title | Prerequisites | UT Course Equivalent | College Credit Hours | Texas Code | TCCN Equivalency |
|---|---|---|---|---|---|---|
| English Language Arts (ELA) | Introduction to Rhetoric: Reading, Writing and Research | English I, English II and English III | RHE 306K | 3 HRS | 010 | ENGL 1301 |
| English Language Arts (ELA) | Reading and Writing the Rhetoric of American Identity | English I, English II, English III, and English 1301 | RHE 309K | 3 HRS | 010 | ENGL 1302 |
| History | The United States, 1492-1865 | English I and English II | HIS 315K | 3 HRS | 060 | HIST 1301 |
| History | The United States, Since 1865 | English I, English II and HIST 1301 | HIS 315L | 3 HRS | 060 | HIST 1302 |
| Mathematics | College Algebra | Algebra 1 and GEometry | M 301 | 3 HRS | | MATH 1314 |
| Mathematics | Discovery Precalculus: Preparation for Calculus | Algebra 2 and Geometry | M 305G | 3 HRS | | MATH 2312 |
| Science | Introductory Biology 1 + Lab | Biology and Chemistry | BIO 311C + BIO 206LA | 4 HRS | | BIOL 1306 + BIOL 1106 |
| Science | Physics 1: Mechanics, Heat, and Sound + Lab | Algebra 1, Geometry, Algebra 2 | PHY 102M + PHY302K | 4 HRS | | PHYS 1301 + PHYS 1101 |
| Science | Physics 2: Electromagnetism, Optics, and Nuclear Physics | Algebra 1, Geometry, Algebra 2, and PHYS 1301 | PHY 302L | 3 HRS | | PHYS 1302 |

**Course descriptions available within each designated department.**

**IMPORTANT NOTIFICATION:** In order for students to participate in the UT OnRamps Program students are required to pay tuition fees for courses, with an additional lab fee for Biology Lab. Students will also be responsible for payment if the course is dropped or payment deadline is not met. If the course is dropped after the census date set by UT, the student will be responsible for the $120.00 supplemental fee that is paid by TMHS. **If a student declines credit or fails the course, they are responsible for the supplemental fee that was paid by TMHS.**

# CORE COURSE DESCRIPTIONS

## ENGLISH

### English 1 Block

**2 semesters/ 1 credit/ 2 periods**

**Grade Placement**: 9

**Prerequisite:** None.

Students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. Standards are cumulative--students will continue to address earlier standards as needed while they attend to standards for their grade. Students should read and write on a daily basis.

### English 1 Honors (*Weighted*)

**2 semesters/ 1 credit/ 2 periods**

**Grade Placement**: 9

**Prerequisite:** Students must first obtain a performance level of "Meets Grade Level" on the most recent core subject related STAAR/EOC assessment or have an 80 in the previous course.

This rigorous English Honors course is designed for freshmen of advanced ability and will help students become skilled readers of prose and poetry, written in a variety of periods, disciplines, and rhetorical contexts. Students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. Standards are cumulative--students will continue to address earlier standards as needed while they attend to standards for their grade. Students should read and write on a daily basis. The goal is to foster student responsibility for scholarship by providing the opportunity to work at a pre-college level and better prepare students for Honors courses offered in the eleventh and twelfth grades.

### English 2

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 10

**Prerequisite:** English 1

Students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. Standards are cumulative--students will continue to address earlier standards as needed while they attend to standards for their grade. Students should read and write on a daily basis.

### English 2 Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 10

**Prerequisite:** Students must first obtain a performance level of "Meets Grade Level" on the most recent core subject related STAAR/EOC assessment or have an 80 in the previous course.

The English Honors course is designed for students of advanced ability who have already mastered EOC skills to prepare for junior level English. They will become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contents and will become skilled writers who can compose for a variety of purposes. Honors students will master the components of style analysis of literature and interpret literature from works of fiction in addition to written essays, poetry, and short stories. Students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. Standards are cumulative--students will continue to address earlier standards as needed while they attend to standards for their grade. Students should read and write on a daily basis. The goal is to foster student responsibility for scholarship by providing the opportunity to work at a pre-college level and better prepare students for the Honors courses offered in the eleventh and twelfth grades.

## English 3

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 11

**Prerequisite:** English 2.

Students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. Standards are cumulative--students will continue to address earlier standards as needed while they attend to standards for their grade. Students should read and write on a daily basis.

## English 3 Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 11-12

**Prerequisite:** Students must first obtain a performance level of "Meets Grade Level" on the most recent core subject related STAAR/EOC assessment or have an 80 in the previous course.

The rigorous Honors English Language and Composition is a course designed for juniors of exceptional ability who accept the challenge of reading, writing, and evaluating at the college level.

## English 4

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 12

**Prerequisite:** English 3 or English 3 Honors.

Students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. Standards are cumulative--students will continue to address earlier standards as needed while they attend to standards for their grade. Students should read and write on a daily basis.

## UT OnRamps English 4 (*Weighted*)

**RHE 306 -** Introduction to Rhetoric: Reading, Writing and Research
**RHE 309K -** Reading and Writing the Rhetoric of American Identity
**2 semesters/ 1 credit/ 1 period / 3 college credits**

**Grade Placement**: 11-12

**Prerequisite:** English 1, English 2, and English 3. Students must take TSI.

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.

## College Preparatory English Language Arts

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 12

**Prerequisite:** Students must obtain a performance level of "Meets Grade Level '' on the English 1 and 2 EOC assessment.

A full-year course designed to prepare students for success in college-level courses. Students will learn to apply critical reading strategies for organizing, summarizing, analyzing, and evaluating college-level readings. Students will also learn to write effective, logical essays, utilizing textual support to develop reading comprehension strategies, and to analyze, synthesize, and make value judgments using critical thinking.

# MATHEMATICS

## Algebra 1

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9

**Prerequisite:** None.

Basic understandings: foundation concepts for high school mathematics; algebraic thinking and symbolic reasoning; function concepts; relationship between equations and functions; tools for algebraic thinking; and underlying mathematical processes.

## Algebra 1 Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9

**Prerequisite:** Students must first obtain a performance level of "Meets Grade Level" on the most recent core subject related STAAR/EOC assessment or have an 80 in the previous course.

This fast-paced curriculum is for students not requiring additional time and practice in order to be successful. Basic understandings: foundation concepts for high school mathematics; algebraic thinking and symbolic reasoning; function concepts; relationship between equations and functions; tools for algebraic thinking; and underlying mathematical processes. The goal is to foster student responsibility for scholarship by providing the opportunity to work at a pre-college level and better prepare students for the Dual Enrollment courses offered in the 11th and 12th grades. NOTE: A grade less than a 70 during the first grading period will result in a change to a regular Algebra 1.

## Geometry

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-10

**Prerequisite:** Algebra 1.

Basic understandings: foundation concepts for high school mathematics; geometric thinking and spatial reasoning; geometric figures and their properties; the relationship between geometry, other mathematics, and other discipline tools for geometric thinking; and underlying mathematical processes.

## Geometry Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-10

**Prerequisite:** Algebra 1 and students must first obtain a performance level of "Meets Grade Level" on the most recent core subject related STAAR/EOC assessment or have an 80 in the previous course.

This fast-paced curriculum is for students who have a strong foundation in Algebra and do not require additional time and practice in order to be successful. It promotes independent learning aided with project-based lessons to increase the depth and understanding of concepts. Topics covered include but are not restricted to foundation concepts for high school mathematics; formal algebraic and geometric proofs; geometric properties; the relationship between geometry, other mathematics, and discipline tools for geometric thinking; and underlying mathematical processes. The goal is to foster student responsibility for scholarship by providing the opportunity to work at a pre-college level and better prepare students for the Dual Enrollment courses offered in the 11th and 12th grades. NOTE: A grade less than a 70 during the first grading period will result in a change to a regular Geometry class.

## Algebra 2

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 10-12

**Prerequisite:** Algebra 1 and Geometry.

Basic understandings: Foundation concepts for high school mathematics; algebraic thinking and symbolic reasoning; functions, equations, and their relationship; relationship between algebra and geometry; tools for algebraic thinking; and underlying mathematical processes.

## Algebra 2 Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 10-12

**Prerequisite:** Algebra 1 and students must first obtain a performance level of "Meets Grade Level" on the most recent core subject related STAAR/EOC assessment or have an 80 in the previous course.

Algebra 2 is a fast-pace curriculum intended for students not requiring additional time and practice in order to be successful. It promotes independent learning aided with project-based lessons to increase the depth and understanding of concepts. Topics covered include but are not restricted to foundation concepts for high school mathematics; algebraic thinking and symbolic reasoning; functions, equations, and their relationship; relationship between algebra and geometry; tools for algebraic thinking; and underlying mathematical processes. The goal is to foster student responsibility for scholarship by providing the opportunity to work at a pre-college level and better prepare students for the Dual Enrollment courses offered in the 11th and 12th grades. NOTE: A grade less than a 70 during the first grading period will result in a change to a regular Geometry class.

## Precalculus

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 11-12

**Prerequisite:** Algebra 2 and Geometry.

Students build on Algebra I, Algebra II, and Geometry foundations as they expand their understanding through other mathematical experiences. Students use symbolic reasoning and analytical methods to represent mathematical situations, to express generalizations, and to study mathematical concepts and the relationships among them; use functions, equations, and limits as useful tools for expressing generalizations and as means for analyzing and understanding a broad variety of mathematical relationships.; use functions as well as symbolic reasoning to represent and connect ideas in geometry, probability, statistics, trigonometry, and calculus and to model physical situations; use a variety of representations (concrete, pictorial, numerical, symbolic, graphical, and verbal), tools and technology (graphing calculators and computers) to model functions and equations and solve real-life problems.

## Algebraic Reasoning

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 11-12

**Prerequisite:** Algebra 1 and Geometry..

Basic understandings: foundation concepts for high school mathematics; geometric thinking and spatial reasoning; geometric figures and their properties; the relationship between geometry, other mathematics, and other discipline tools for geometric thinking; and underlying mathematical processes.

## Precalculus Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 10-12

**Prerequisite:** Algebra 2, Geometry, and students must first obtain a performance level of "Meets Grade Level" on the most recent core subject related STAAR/EOC assessment or have an 80 in the previous course.

This fast-paced curriculum is for students not requiring additional time and practice in order to be successful. Students continue to build on Algebra I, Algebra II, and Geometry foundations as they expand their understanding through other mathematical experiences; use symbolic reasoning and analytical methods to represent mathematical use functions, equations, and limits as useful tools for expressing generalizations and as means for analyzing and understanding a broad variety of mathematical relationships; use functions as well as symbolic reasoning to represent and connect ideas in geometry, probability, statistics, trigonometry, and calculus and to model physical situations; use a variety of representations (concrete, pictorial, numerical, symbolic, graphical, and verbal), tools and technology (graphing calculators and computers) to model functions and equations and solve real-life problems. The goal is to foster student responsibility for scholarship by providing the opportunity to work at a pre-college level and better prepare students for the Honors courses offered in the eleventh and twelfth grades.

## Calculus Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 11-12

**Prerequisite:** Precalculus, Algebra 2, Geometry, and students must first obtain a performance level of "Meets Grade Level" on the most recent core subject related STAAR/EOC assessment or have an 80 in the previous course.

Topics covered: Limits, continuity, differentiation with applications, integration, definite integral with properties, and applications of integration

## UT OnRamps Precalculus (*Weighted*)

**M 305 G -** Discovery Precalculus: Preparation for Calculus
**2 semesters/ 1 credit/ 1 period / 3 college credits**

**Grade Placement**: 11-12

**Prerequisite:** Algebra 2 and Geometry. Students must take TSI.

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.

## UT OnRamps College Algebra (*Weighted*)

**M 301 -** College Algebra
**2 semesters/ 1 credit/ 1 period / 3 college credits**

**Grade Placement**: 11-12

**Prerequisite:** Algebra 1, Geometry, Algebra 2.

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.

## College Preparatory Mathematics

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 12

**Prerequisite:** Algebra 1, Geometry, and Algebra 2. Students must first obtain a performance level of "Meets Grade Level '' on the Algebra 1 EOC assessment. Principal Approval Required.

A full-year course that prepares students for success in entry-level college courses and/or success on the Texas Success Initiative (TSI) Assessment. College Preparatory Mathematics is a rigorous course that will include student learning outcomes and objectives in the following areas: Elementary Algebra and Functions, Intermediate Algebra and Functions, Geometry and Measurement; and Data Analysis, Statistics, and Probability.

# SCIENCE

## Biology

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9

**Prerequisite:** None.

Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving; study a variety of topics that include: structures and functions of cells and viruses; growth and development of organisms; cells, tissues, and organs; nucleic acids and genetics; biological evolution; taxonomy; metabolism and energy transfers in living organisms; living systems; homeostasis; and ecosystems and the environment; scientific inquiry and methods of investigation are experimental, descriptive, or comparative; students should be able to distinguish between scientific decision-making methods (scientific methods) and ethical and social decisions that involve science (the application of scientific information; collection of cycles, structures, and processes that have basic properties that can be described in space, time, energy, and matter; patterns and can be observed, measured, and modeled that can be scientifically tested; analyze a system in terms of its components and how these components relate to each other, to the whole, and to the external environment.

## UT OnRamps Biology (*Weighted*)

**BIO 311C & 206LA -** Introductory Biology 1 + Lab
**2 semesters/ 1 credit/ 2 periods / 4 college credits**

**Grade Placement**: 11-12

**Prerequisite:** Biology and Chemistry

This year-long course explores three big ideas of biology: the structure and function of biomolecules, the flow of energy through living systems via photosynthesis and cellular respiration, and how genetic information is expressed and transmitted both within and between cells.

## Biology Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9

**Prerequisite:** Students must first obtain a performance level of "Meets Grade Level" on the most recent core subject related STAAR/EOC assessment or have an 80 in the previous course.

This course is a laboratory-based, academically rigorous course that is intended to prepare students for advanced biology courses, such as AP or dual credit Biology. Introduction: Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving; study a variety of topics that include: structures and functions of cells and viruses; growth and development of organisms; cells, tissues, and organs; nucleic acids and genetics; biological evolution; taxonomy; metabolism and energy transfers in living organisms; living systems; homeostasis; and ecosystems and the environment; scientific inquiry and methods of investigation are experimental, descriptive, or comparative; students should be able to distinguish between scientific decision-making methods (scientific methods) and ethical and social decisions that involve science (the application of scientific information; collection of cycles, structures, and processes that have basic properties that can be described in space, time, energy, and matter; patterns and can be observed, measured, and modeled that can be scientifically tested; analyze a system in terms of its components and how these components relate to each other, to the whole, and to the external environment. The goal is to foster student responsibility for scholarship by providing the opportunity to work at a pre-college level and better prepare students for the Honors courses offered in the eleventh and twelfth grades.

## Chemistry

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** Biology, Algebra 1, and completion of or concurrent enrollment in a second year math course.

Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving; study a variety of topics that include characteristics of matter, use of the Periodic Table, development of atomic theory and chemical bonding, chemical stoichiometry, gas laws, solution chemistry, thermo-chemistry, and nuclear chemistry. Students will investigate how chemistry is an integral part of our daily lives.

## Chemistry Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** Biology, Algebra 1 and completion of or concurrent enrollment in a second year math. Students must first obtain a performance level of "Meets Grade Level" on the most recent core subject related STAAR/EOC assessment or have an 80 in the previous course.

This class is an accelerated class that studies in-depth various topics. Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving; study a variety of topics that include characteristics of matter, use of the Periodic Table, development of atomic theory and chemical bonding, chemical stoichiometry, gas laws, solution chemistry, thermo-chemistry, and nuclear chemistry. Students will investigate how chemistry is an integral part of our daily lives. The goal is to foster student responsibility for scholarship by providing the opportunity to work at a pre-college level and better prepare students for the Honors courses offered in the eleventh and twelfth grades.

## Physics

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 11

**Prerequisite:** Biology, Chemistry, and Algebra I.

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: laws of motion; changes within physical systems and conservation of energy and momentum; forces; thermodynamics; characteristics and behavior of waves; and atomic, nuclear, and quantum physics. Students who successfully complete Physics will acquire factual knowledge within a conceptual framework, practice experimental design and interpretation, work collaboratively with colleagues, and develop critical thinking skills.

## Physics Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 11-12

**Prerequisite:** Biology, Chemistry, and Algebra II (or taken concurrently). Students must first obtain a performance level of "Meets Grade Level" on the most recent core subject related STAAR/EOC assessment or have an 80 in the previous course.

This class is an accelerated class that studies in-depth various topics. Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving; study a variety of topics that include characteristics of matter, use of the Periodic Table, development of atomic theory and chemical bonding, chemical stoichiometry, gas laws, solution chemistry, thermo-chemistry, and nuclear chemistry. Students will investigate how chemistry is an integral part of our daily lives. The goal is to foster student responsibility for scholarship by providing the opportunity to work at a pre-college level and better prepare students for the Honors courses offered in the eleventh and twelfth grades.

## UT OnRamps Physics 1 (*Weighted*)

**PHY 302K + PHY 102M -** Physics 1: Mechanics, Heat, and Sound + Lab
**2 semesters/ 1 credit/ 1 period / 4 college credits**

**Grade Placement**: 11-12

**Prerequisite:** Algebra 1, Geometry, Algebra 2 or Precalculus (recommended)

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.

## UT OnRamps Physics 2 (*Weighted*)

**PHY 302L -** Physics 2: Electromagnetism, Optics, and Nuclear Physics
**2 semesters/ 1 credit/ 1 period / 3 college credits**

**Grade Placement**: 11-12

**Prerequisite:** Geometry, Algebra 2 or Precalculus (recommended), and UT OnRamps Physics 1

Electromagnetism, Optics, and Nuclear Physics serves as an introduction to electricity, magnetism, optics, waves, and quantum and nuclear physics. 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.

## Anatomy & Physiology

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 11-12

**Prerequisite:** Biology or Biology Honors and Chemistry or Chemistry Honors.

Anatomy and Physiology is a study of the human systems and is geared to meet the needs of students interested in a career in the medical field. This lab-oriented course is designed to demonstrate safe practices using biological equipment and chemicals as well as safe dissecting techniques. Students will participate fully in labs and use safe procedures in handling dissection specimens, recognize and identify organs on models and on dissected specimens. Students will describe the function of each body system and identify disorders of homeostasis of a particular system. On a weekly basis, students will analyze advanced medical concerns by using multimedia resources.

## Anatomy & Physiology Honors (*Weighted*)

**2 semesters/ 1 credit/1 period**

**Grade Placement**: 11-12

**Prerequisite:** Biology or Biology Honors and Chemistry or Chemistry Honors.

Anatomy and Physiology Honors is an accelerated class that studies in-depth various topics relating to human systems and is geared to meet the needs of students interested in a career in the medical field. This lab-oriented course is designed to demonstrate safe practices using biological equipment and chemicals as well as safe dissecting techniques. Students will participate fully in labs and use safe procedures in handling dissection specimens, recognize and identify organs on models and on dissected specimens. Students will describe the function of each body system and identify disorders of homeostasis of a particular system. On a weekly basis, students will analyze advanced medical concerns by using multimedia resources.

## Aquatic Science

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 10-12

**Prerequisite:** Biology or Biology Honors, Chemistry or Chemistry Honors..

Students study the interactions of biotic and abiotic components in aquatic environments, including impacts on aquatic systems. Investigations and field work in this course may emphasize freshwater or marine aspects of aquatic science depending primarily upon the natural resources available for study near the school. Students who successfully complete Aquatic Science will acquire knowledge about a variety of aquatic systems, conduct investigations and observations of aquatic environments, work collaboratively with peers, and develop critical-thinking and problem-solving skills. **A $10.00 lab fee is required to pay for necessary supplies.**

## Earth and Space Science

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 11-12

**Prerequisite:** Three units of science, one of which may be taken concurrently, and three units of mathematics, one of which may be taken concurrently.

Earth and Space Science (ESS) is a capstone course designed to build on students' prior scientific and academic knowledge and skills to develop understanding of Earth's system in space and time. ESS includes the study of earth in space and time, solid Earth and fluid Earth through the three strands of systems, energy, and relevance.

# SOCIAL STUDIES

## World Geography

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** None.

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

## World Geography Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** Students must first obtain a performance level of "Meets Grade Level" on the most recent core subject related STAAR/EOC assessment or have an 80 in the previous course.

This fast-paced curriculum is for students not requiring additional time and practice in order to be successful. Students examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Students describe the influence of geography on events of the past and present with emphasis on contemporary issues. A significant portion of the course centers around the physical processes that shape patterns in the physical environment; the characteristics of major landforms, climates, and ecosystems and their interrelationships; the political, economic, and social processes that shape cultural patterns of regions; types and patterns of settlement; the distribution and movement of the world population; relationships among people, places, and environments; and the concept of region. Students analyze how location affects economic activities in different economic systems. Students identify the processes that influence political divisions of the planet and analyze how different points of view affect the development of public policies. Students compare how components of culture shape the characteristics of regions and analyze the impact of technology and human modifications on the physical environment. Students use problem-solving and decision-making skills to ask and answer geographic questions. The goal is to foster student responsibility for scholarship by providing the opportunity to work at a pre-college level and better prepare students for the Honors courses offered in the eleventh and twelfth grades.

## World History

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** None.

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

## UT OnRamps US History (*Weighted*)

**HIS 315L -**The United States, 1492-1865
**HIS 315K -**The United States, Since 1865
**2 semesters/ 1 credit/ 2 periods / 4 college credits**

**Grade Placement**: 11-12

**Prerequisite:** English 2 or concurrent enrollment.

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.

## World History Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** Students must first obtain a performance level of "Meets Grade Level" on the most recent core subject related STAAR/EOC assessment or have an 80 in the previous course.

This fast-paced curriculum is for students not requiring additional time and practice in order to be successful. World History Studies is a survey of the history of humankind. Due to the expanse of world history and the time limitations of the school year, the major emphasis is on the study of significant people, events, and issues from the earliest times to the present. Traditional historical points of reference in world history are identified as students analyze important events and issues in western civilization as well as in civilizations in other parts of the world. Students evaluate the causes and effects of political and economic imperialism and of major political revolutions since the 17th century. Students examine the impact of geographic factors on major historic events and identify the historic origins of contemporary economic systems. Students analyze the process by which constitutional governments evolved as well as the ideas from historic documents that influenced that process. Students trace the historical development of important legal and political concepts. Students examine the history and impact of major religious and philosophical traditions. Students analyze the connections between major developments in science and technology and the growth of industrial economies, and they use the process of historical inquiry to research, interpret, and use multiple sources of evidence. The goal is to foster student responsibility for scholarship by providing the opportunity to work at a pre-college level and better prepare students for the Honors courses offered in the eleventh and twelfth grades.

## US History Since 1877

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 11

**Prerequisite:** None.

In United States History Studies Since 1877 (the second part of a two-year study that begins in Grade 8) students study the history of the United States from 1877 to the present. The course content is based on the founding documents of the U.S. government, which provide a framework for its heritage. Historical content focuses on the political, economic, and social events and issues related to industrialization and urbanization, major wars, domestic and foreign policies, and reform movements, including civil rights. Students examine the impact of geographic factors on major events and eras and analyze their causes and effects. Students examine the impact of constitutional issues on American society, evaluate the dynamic relationship of the three branches of the federal government, and analyze efforts to expand the democratic process. Students describe the relationship between the arts and popular culture and the times during which they were created. Students analyze the impact of technological innovations on American life. Students use critical-thinking skills and a variety of primary and secondary source material to explain and apply different methods that historians use to understand and interpret the past, including multiple points of view and historical context.

## Macroeconomics Honors (*Weighted*)

**1 semesters/ 0.5 credit/ 1 period**

**Grade Placement**: 12

**Prerequisite:** None.

The Economics/Free Enterprise course will focus on the basic principles, which stimulate the creation of and foster the growth of the free enterprise system and the comparison of different forms of economic systems throughout the world. The student will investigate, independently or collaboratively, a problem, issue, or concern within a selected profession or discipline. The student will demonstrate understanding of the research methods and/or technologies used in a selected profession or discipline. The student will develop products that meet standards recognized by the selected profession or discipline. The student will demonstrate an understanding of the selected problem, issue, or concern by explaining or justifying findings to an appropriate audience for public comment or professional response..

## US Government & Politics

**1 semesters/ 0.5 credit/ 1 period**

**Grade Placement**: 12

**Prerequisite:** None.

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

## US Government & Politics Honors (*Weighted*)

**1 semesters/ 0.5 credit/ 1 period**

**Grade Placement**: 12

**Prerequisite:** None.

This Honors course in the U.S. Government and Politics will give students an analytical perspective on government and politics in the United States. This extremely rigorous program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by a full-year introductory college course. This course includes both the study of general concepts used to interpret U.S. Politics and analyze of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. Students will become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes.

## Economics with Emphasis on the Free Enterprise System and its Benefits

**1 semesters/ 0.5 credit/ 1 period**

**Grade Placement**: 12

**Prerequisite:** None.

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

## Personal Financial Literacy

**1 semesters/ 0.5 credit/ 1 period**

**Grade Placement**: 11

**Prerequisite:** World Geography or World History.

Personal Financial Literacy is designed to be an interactive and research based course. The course will teach students to analyze decisions involving earning and spending, saving and investment, credit and borrowing, insuring and protecting, and college and post-secondary education and training. innovations on American life. Students use critical-thinking skills and a variety of primary and secondary source material to explain and apply different methods that historians use to understand and interpret the past, including multiple points of view and historical context.

# ELECTIVE COURSE DESCRIPTIONS

## LANGUAGES OTHER THAN ENGLISH

### Spanish 1

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** None.

Students will understand and use conversational Spanish that will demonstrate knowledge of main ideas in listening and reading; produce learned words, phrases, and sentences in speech and writing accurately; recognize the importance of culture and history of the Americas in 21st century.

### Spanish 2

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** Spanish 1.

Spanish Level II includes the same areas of Spanish Level 1 with emphasis on increased understanding and expanded vocabulary. Grammar will include: learned concepts, past tenses, oral proficiency (novice-intermediate); listening comprehension, writing skills limited to short paragraphs and essays; reading comprehension (short stories, legends); cultural awareness of all Hispanic world.

### Spanish 3

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 10-12

**Prerequisite:** Spanish 1 and 2.

Satisfactory performance on Spanish levels I &II and score a minimum of an 85% on a Spanish mastery exam. Exams will be given to students enrolled in Spanish II in May. Students who have already taken Spanish II but are currently not enrolled in the course, must make arrangements to take exam prior to registering for Spanish III. This course is an advanced continuation of language applications acquired in the first and second year of Spanish. Student will review and continue to learn advanced grammar, vocabulary and communication skills. Emphasis is placed on oral proficiency and discussions revolving around everyday situations using standard Spanish language. Student is expected to expand his/her knowledge of writing and reading skills of selected passages and authentic literature in Spanish. This course is designed for the student who has a strong interest and ability in learning the Spanish language.

## Spanish 3 Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 10-12

**Prerequisite:** Spanish 1 and 2.

Satisfactory performance on Spanish levels I &II and score a minimum of an 90% on a Spanish mastery exam. Exams will be given to students enrolled in Spanish II in May. Students who have already taken Spanish II but are currently not enrolled in the course, must make arrangements to take exam prior to registering for Spanish III. This course is a rigorous college preparatory course that will prepare students for Spanish IV AP. Student will review and continue to learn advanced grammar, vocabulary and communication skills. Emphasis is placed on oral proficiency and discussions revolving around everyday situations using standard Spanish language. This course will be conducted in Spanish 50% of the time first semester and 80% of the time second semester. Student is expected to expand his/her knowledge of writing and reading skills of selected passages and authentic literature in Spanish. Students will begin composing essays and oral presentations in target language. This course is designed for the student who has a strong interest and ability in learning the Spanish language. Students are expected to pick up and complete a summer assignment/project prior to the year of enrollment.

## Spanish 4 Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 10-12

**Prerequisite:** Spanish 1 and 2.

Satisfactory performance of at least and 85% on Spanish levels I, II & III Honors. Summer Assignment will be assigned and students planning to enroll must complete it before the first day of school. This course is a college level course that is taught 90% of the time in Spanish. It is designed to continue developing language skills in the following: writing, reading, listening and speaking. It will stress understanding the written and spoken language and responding in well-spoken or written Spanish. Extensive practice in writing, reading, speaking and listening must be expected. Students will also read and discuss a variety of authentic literature selections in target language. Students are expected to pick up and complete a summer assignment/project prior to the year of enrollment.

## American Sign Language (ASL) 3

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** American Sign Language 1 and 2.

This course is intended to develop the student's visual-spatial (gestural) skills and improve expressive fluency and reception skills through class discussions, pair/group work, presentations, and interaction with the Deaf Community. It includes grammar review and features extensive discussions of Deaf Culture. Students will gain recognition of sign language variation (i.e. gender, generational signs, ethnicity, etc.). Fluency and accuracy of fingerspelling will be developed as well as the use of lexicalized signs. Instruction will occur primarily in ASL (no voice).

## American Sign Language (ASL) 4

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** American Sign Language (ASL) 1-3.

Acquiring American Sign Language incorporates both expressive and receptive communication skills. Students develop these communication skills by using knowledge of the language, including grammar, and culture, communication and learning strategies, technology, and content from other subject areas to socialize, to acquire and provide information, to express feelings and opinions, and to get others to adopt a course of action. While knowledge of other cultures, connections to other disciplines, comparisons between languages and cultures, and community interaction all contribute to and enhance the communicative language learning experience, communication skills are the primary focus of language acquisition. Students of ASL gain the knowledge to understand cultural practices (what people do), products (what people create), to increase their understanding of other cultures as well as to interact with members of those cultures. Through the learning of ASL, students obtain the tools and develop the context needed to connect with other subject areas, to use the language to acquire information and reinforce other areas of study. Students develop an understanding of the nature of language, including grammar, and culture, use this knowledge to compare languages and cultures, and expand insight into their own language and culture. Students enhance their personal and public lives and meet the career demands of the 21st century by using ASL to participate in Deaf communities in Texas, other states, and around the world.

# PHYSICAL EDUCATION

Students may substitute certain physical activities for required credits for physical education from the courses listed in this section. Each course listed may equal one-half to one credit for graduation. In Physical Education, students acquire the knowledge and skills for movement that provide the foundation for enjoyment, continued social development through physical activity, and access to a physically-active lifestyle. The student exhibits a physically-active lifestyle and understands the relationship between physical activity and health throughout the lifespan. Some courses may be taken for up to four substitution credits toward graduation credit.

**Advanced Measure:** Students must remain academically eligible the entire year and participate on the team (be on the roster) to get the weighted credit for the course.

## Baseball (Athletics 1-4) (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** Coach approval required.

UIL baseball involves inter-school competition. UIL baseball emphasizes group skills, physical fitness, team sports, and sportsmanship. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach/coaches.

## Basketball (Boys/Girls) (Athletics 1-4) (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** Coach approval required.

UIL basketball involves inter-school competition. UIL basketball emphasizes group skills, physical fitness, team sports, and sportsmanship. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach/coaches.

## Football (Athletics 1-4) (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** Coach approval required.

UIL football involves inter-school competition. UIL football emphasizes group skills, physical fitness, team sports, and sportsmanship. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach/coaches..

## Cheerleading (Up to 1 PE Credit) (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** Tryouts required.

Students attend summer camp to learn skills in tumbling, stunting, dancing and cheer techniques. Skills are refined and utilized to incorporate in pep rallies and games including, but not limited to, football and basketball. Students work on a continuing basic conditioning program throughout the year to include aerobics, strength building, coordination, and tumbling skills. Students are responsible for developing plans for pep rallies and special events to promote school spirit including the creation of signs, posters, programs, and skits to be utilized during events.

## Drill Team (Up to 1 PE Credit) (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** Auditions required.

Students will acquire skills in the following dance techniques: ballet, jazz, modern, square, social and folk. Students will be provided the opportunity to create expressions through movement, be aware of space, time, and energy as design techniques or composition, and develop self-confidence and appreciation of dance as an art form. During the fall semesters, students will perform at all varsity football games and designated varsity home basketball games. During the spring semester, students will choreograph, perform, costume, and critique an original dance.

## PE-Individual Sports

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** Auditions required.

Students in Individual Sports are expected to participate in a wide range of individual sports that can be pursued for a lifetime. The continued development of health-related fitness and the selection of individual sport activities that are enjoyable is a major objective of this course.

## PE-Foundations of Personal Fitness

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** None.

Foundations of Personal Fitness represents a new approach in physical education and the concept of personal fitness. The basic purpose of this course is to motivate students to strive for lifetime personal fitness with an emphasis on the health-related components of physical fitness. The knowledge and skills taught in this course include the process of becoming fit as well as achieving some degree of fitness within the class. The concept of wellness, or striving to reach optimal levels of health, is the corner stone of this course and is exemplified by one of the course objectives-students designing their own personal fitness program.

## PE-Team Sports

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** None.

Students enrolled in Team Sports are expected to develop health-related fitness and an appreciation for team work and fair play. Like the other high school physical education courses, Team Sports is less concerned with the acquisition of physical fitness during the course than reinforcing the concept of incorporating physical activity into a lifestyle beyond high school.

## Soccer (Boys/Girls) (Athletics 1-4) (Weighted)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** Coach approval required.

UIL soccer involves for inter-school competition. UIL soccer emphasizes group skills, physical fitness, team sports, and sportsmanship. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach/coaches.

## Softball (Athletics 1-4) (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** Coach approval required.

UIL softball involves inter-school competition. UIL softball emphasizes group skills, physical fitness, team sports, and sportsmanship. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach/coaches.

## Swimming/ Diving (Athletics 1-4) (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** Coach approval required.

UIL swimming/diving involves inter-school competition. UIL swimming emphasizes group skills, physical fitness, team sports, and sportsmanship. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach/coaches.

## Tennis (Boys/Girls) (Athletics 1-4) (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** Coach approval required.

UIL tennis involves inter-school competition. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach/coaches. Students will adhere to the athletic director approved contract and will participate in the Team Tennis dual matches and tournaments.

## Track/Cross (Boys/Girls) (Athletics 1-4) (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** Coach approval required.

UIL track/cross country involves inter-school competition. UIL track/cross country emphasizes group skills, physical fitness, team sports, and sportsmanship. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach/coaches.

## Volleyball (Athletics 1-4) (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** Coach approval required.

UIL volleyball involves inter-school competition. UIL swimming emphasizes group skills, physical fitness, team sports, and sportsmanship. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach/coaches.

## Non-District Physical Education

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** Approval from Superintendent.

Private or commercially sponsored physical activities include those certified by the superintendent to be of high quality and well supervised by appropriately trained instructors. Student participation of at least five hours per week must be required. Students certified to participate at this level may not be dismissed from any part of the regular school day.

# MILITARY SCIENCE

Military science combines academic study with physical fitness training, military drill and instruction in citizenship and patriotism. Cadets must be able to fully participate in the school's physical fitness program and will be required to complete a one-mile run/walk, push-ups and sit-ups during the semi-annual Navy Physical Fitness Test. Cadets are required to wear their Navy uniform and participate in physical fitness training no less than once per week. Cadets who desire to compete against other JROTC units should plan to practice after school as members of the Drill Team, Academic Team, and/or the Rifle Team. All cadets will be required to perform a drill exhibition, as a unit, for the Navy and School District inspectors once per year during the Annual Military Inspection (AMI). **These courses may be used as PE substitutions.**

## NJROTC 1 (Naval Science)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** None.

Naval Science 1 is a multi-disciplinary course that includes an introduction to the CDP program and leadership training. Subjects also include Naval Ships and Damage Control, the Navy and its people, sea power and maritime geography, oceanography; introduction to navigation and time, basic seamanship, first aid, and general health education. Physical training (PT) is required of all cadets. All new cadets will be issued a complete Navy uniform at the beginning of the school year and are expected to wear their uniform on the specified days and conform to CDP/school grooming standards.

## NJROTC 2 (Naval Science)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 10-12

**Prerequisite:** NJROTC 1.

Naval Science 2 courses emphasize leadership, citizenship, and career planning for both civilian and military occupations. Naval History and Naval Weapons are introduced. Other topics include: Navigation Fundamentals, Small Boat Seamanship, Survival Training, Orienteering, both Inner and Outer Space, current events and world-wide political events, etc. Cadets classified as JUNIORS are REQUIRED to take the ASVAB (military entrance exam) during the Fall. Junior cadets will be highly encouraged to take the SAT/ACT exam during their Spring semester if they desire to go to college after high school. Grooming standards conforming to the CDP Program and civilian occupations will be strictly enforced. Job interview skills and attire will also be practiced. Physical training and the wearing of the Navy uniform on specified days is mandatory.

## NJROTC 3 (Naval Science)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** NJROTC 1 and 2.

Naval Science 3 courses emphasize leadership, citizenship, and career planning for both civilian and military occupations. Naval History and Naval Weapons are introduced. Other topics include: Navigation Fundamentals, Small Boat Seamanship, Survival Training, Orienteering, both Inner and Outer Space, current events and world-wide political events, etc. Cadets classified as JUNIORS are REQUIRED to take the ASVAB (military entrance exam) during the Fall. Junior cadets will be highly encouraged to take the SAT/ACT exam during their Spring semester if they desire to go to college after high school. Grooming standards conforming to the CDP Program and civilian occupations will be strictly enforced. Job interview skills and attire will also be practiced. Physical training and the wearing of the Navy uniform on specified days is mandatory.

## NJROTC 4 (Naval Science)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 12

**Prerequisite:** NJROTC 1, 2, and 3.

Naval Science 4 courses emphasize leadership, citizenship, and career planning for both civilian and military occupations. Naval History and Naval Weapons are introduced. Other topics include: Navigation Fundamentals, Small Boat Seamanship, Survival Training, Orienteering, both Inner and Outer Space, current events and world-wide political events, etc. Grooming standards conforming to the CDP Program and civilian occupations will be strictly enforced. Job interview skills and attire will also be practiced. Physical training and the wearing of the Navy uniform on specified days is mandatory.

# FINE ARTS

## Art 1

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** None.

This course provides a broad foundation into the elements and principles of design to develop skills in creative thinking and communication. Students will work hands-on with a variety of media which may include drawing (pencil, pastels, charcoal, colored pencil), painting (tempera and watercolor), sculpture (clay, paper), printmaking (linoleum), and mixed media. Art appreciation, art history and evaluation through student and teacher critiques expand the student's verbal and visual vocabulary.

## Drawing 2

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** Art 1.

In this second year course, students work both from observation and imagination on projects and exercises designed to improve drawing and compositional skills. Students will work in a variety of media such as pencil, ink, scratchboard, pastels and mixed media. It is designed to engage students in higher level thinking skills through creative problem solving and personal expression. Students will create original works of art in the areas of portraits, landscapes, interiors, still life images, perspective drawings, figure drawings and other areas of interest. Participation in a variety of local, regional, and national art competitions is encouraged.

## Drawing 3

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 10-12

**Prerequisite:** Art 1 and Drawing 2.

This third year course requires the student to develop a portfolio of advanced art pieces. Continuing on the foundation built in Art 1 and Drawing 2, students will work towards the development of a personal style through the creation of works of art using a variety of media such as pencil, ink, scratchboard, pastels and mixed media. Participation in a variety of local, regional, and national art competitions is expected. Students are required to devote time outside of the normal class period.

## Drawing 4

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 11-12

**Prerequisite:** Art 1, Drawing 2 and Drawing 3.

This fourth year course requires the student to develop a portfolio of advanced art pieces. Continuing on the foundation built in Art 1 and Art 2 and Art 3: Drawing, students will work towards the development of a personal style through the creation of works of art using a variety of media such as pencil, ink, scratchboard, pastels and mixed media. Participation in a variety of local, regional, and national art competitions is expected. Students are required to devote time outside of the normal class period.

## Painting 1

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** None.

This course provides a broad foundation into the elements and principles of design to develop skills in creative thinking and communication through painting and drawing. Students will work hands-on with a variety of painting techniques and some mix-media. Acrylic, tempera, and watercolor will be used. Art appreciation, art history and evaluation through student and teacher critiques expand the student's verbal and visual vocabulary. Students are expected to keep a sketchbook.

## Painting 2

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** Painting 1.

This second year course provides exposure to a variety of art processes and techniques. The elements and principles of design are studied in addition to major artists and art movements. Instruction emphasizes the development of a personal style and painting skills. Students will continue to work with a variety of painting techniques while using watercolor, tempera, acrylic, under glaze and mixed media on two- and three-dimensional surfaces to create original works of art. Students will work in collaboration with the teacher to devise individual projects.

## Painting 3

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 10-12

**Prerequisite:** Painting 1 and Painting 2.

This third year course requires the student to develop a portfolio of advanced art pieces. Continuing on the foundation built in Art 1 and Art 2: Painting, Students will continue to work with a variety of painting techniques while using watercolor, tempera, acrylic, under glaze and mixed media on two- and three-dimensional surfaces to create original works of art. Students will work in collaboration with the teacher to devise individual projects. Participation in a variety of local, regional, and national art competitions is expected. Students are required to devote time outside of the normal class period.

## Painting 4

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 11-12

**Prerequisite:** Painting 1, 2 and 3.

This fourth year course requires the student to develop a portfolio of advanced art pieces. Continuing on the foundation built in Art 1, Art 2 and Art 3: Painting, Students will continue to work with a variety of painting techniques while using watercolor, tempera, acrylic, under glaze and mixed media on two- and three-dimensional surfaces to create original works of art. Students will work in collaboration with the teacher to devise individual projects. Participation in a variety of local, regional, and national art competitions is expected. Students are required to devote time outside of the normal class period.

## Sculpture 1

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** None.

This course provides a broad foundation into the elements and principles of design to develop skills in creative thinking and communication. Students will work hands-on with a variety of 3D materials in sculptures. Found art, clay, paper, plaster, wire are just a few of the materials used. Art appreciation, art history and evaluation through student and teacher critiques expand the student's verbal and visual vocabulary with sculpture and the elements and principles of design. Students are expected to keep a sketchbook.

## Sculpture 2

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 10-12

**Prerequisite:** Sculpture 1.

This second year course provides exposure to a variety of art processes and techniques. It extends the student's artistic understanding and experiences as introduced in Art I. Emphasis will be placed on the development of compositional skills and imaginative use of the elements and principles of design. The class is designed to strengthen the student's three-dimensional and spatial skills. Students will experiment with a variety of sculpting materials and tools. Ancient through contemporary sculptures will be studied.

## Sculpture 3

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 10-12

**Prerequisite:** Sculpture 1 and Sculpture 2.

This third year course provides exposure to a variety of art processes and techniques. It extends the student's artistic under-standing and experiences as introduced in Sculpture 2. Emphasis will be placed on the advanced development of compositional skills and imaginative use of the elements and principles of design in sculpture. The class is designed to strengthen the student's three-dimensional and spatial skills. Students will experiment with a variety of sculpting materials, tools and subjects to develop artwork that express the student's personal style and concept. Ancient through contemporary sculptures will be studied.

## Sculpture 4

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 11-12

**Prerequisite:** Sculpture 1, 2 and 3.

This fourth year course requires the student to develop a portfolio of advanced art pieces. Continuing on the foundation built in Art 1, Art 2 and Art 3: Painting, Students will continue to work with a variety of painting techniques while using watercolor, tempera, acrylic, under glaze and mixed media on two- and three-dimensional surfaces to create original works of art. Students will work in collaboration with the teacher to devise individual projects. Participation in a variety of local, regional, and national art competitions is expected. Students are required to devote time outside of the normal class period.

## Printmaking 1

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 10-12

**Prerequisite:** None.

This course provides instruction in the art of producing prints. Students will research in depth techniques such as screen printing, etching-drypoint, block printmaking, collagraphs, and monotypes in its historical to contemporary styles. Students are expected to keep a living sketchbook of weekly assignments and research of projects. Students will have opportunities and are expected to enter original and authentic work in competitions with peers. They will also have opportunities to display original and authentic works amongst peers.

## Art Honors: Studio Art-Drawing Portfolio (Weighted Course)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 11-12

**Prerequisite:** Successful completion of Art 1 and Drawing 2 and/or Painting 2.

This advanced art course enables highly motivated students to work in collaboration with the teacher to prepare and present a performance-based portfolio, which is assessed in three parts. The “quality” section will include five quality pieces of art for the judges to examine. The “concentration” section will consist of 12 slides documenting an in-depth study of a chosen artistic concern. The BREDTH section will consist of 12 slides of the students' work showing a wide range of successful drawings in a variety of approaches and media. Students rated qualified to extremely well qualified may receive advanced placement. Participation in a variety of local, regional, and national art competitions is expected.

# CHOIR

## Choir 1-4

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** None.

This course is for male and/or female students with intermediate or advanced skills in sight-reading and choral singing. Instruction in this course will continue to develop vocal skills necessary for ensemble singing. Emphasis will be placed upon the performance of diverse variety of choral styles. Students will perform in concert programs and participate in competitive events coordinated by the University Interscholastic League and TMEA contests. Attendance at after school rehearsals and performances will be required to fulfill all course objectives. The voicing of this choir (Mixed, Treble or Tenor/Bass) is at the director's discretion.

## Vocal Ensemble Honors 1-4 (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** None.

Students in the Vocal Ensemble Honors courses will participate in the Choral Department curriculum but will also participate in District, Regional, and State competitions. They will participate in community outreach related performances including, but not limited to, singing for feeder schools, administrators, and nursing homes. The expectation is that these students strive and are willing to perform at the highest level.

# BAND

## Band 1-4

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** Courses must be taken in sequence. Students must have proven instrumental or color guard performance and recommendation by band director or demonstration of instrumental or color guard proficiency appropriate for high school level.

During the year students are provided the opportunity to perform in marching band. Music and marching fundamentals, flag/rifle/dance performance, music history, and development of work ethics is stressed. Individual playing opportunities are made available through competition at District, Region, Area, and State Band tryouts. During the spring semester the band provides students with an opportunity to participate in concert band and jazz band. Music fundamentals, flag/rifle/dance performance, music history, and development of work ethics are stressed. Small and large ensemble experience and solo playing are made available. By reflecting on musical periods and styles, students understand music's role in history and are able to participate successfully in a diverse society. Students analyze and evaluate music, developing criteria for making critical judgments and informed choices. **Can count toward PE credit requirements**

## Band 3-4 Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 11-12

**Prerequisite:** Band 1 and 2.

Although encompassing the same performance criteria as regular band courses listed, this course has an added emphasis on research and individualized study and practice. It also develops comprehensive individual musicianship. Attendance at after school rehearsals and performances will be required. The students will also be required to compete at TMEA District Band Auditions and UIL Solo and Ensemble Contests.

## Jazz 1-4

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 11-12

**Prerequisite:** None.

Although encompassing the same performance criteria as regular band courses listed, this course has an added emphasis on research and individualized study and practice. It also develops comprehensive individual musicianship. Attendance at after school rehearsals and performances will be required. The students will also be required to compete at TMEA District Band Auditions and UIL Solo and Ensemble Contests.

## Mariachi Tierra Mia

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** Director Approval and concurrent enrollment in Band 1.

Mariachi is a performance-oriented course for students concurrently signed up for band. Non-band students may also audition for a Mariachi Director for a position in the ensemble with band director approval. The audition is intended for experienced musicians who sing and play a mariachi instrument (guitarron, vihuela, guitarra de golpe, guitar, violin, trumpet and/or harp). This course is a mixed ensemble of traditional Mexican instruments including voices for the study and performance of mariachi repertoire. The ensemble rehearses and performs traditional and contemporary mariachi music. Students learn performance practices and playing techniques that apply to performance repertoire appropriate for the ensemble. Students will enhance their music reading and listening skills and help develop social skills and responsibility through group performance. Participation in all performances is mandatory.

# THEATRE

## Theatre Arts 1

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** By audition only.

Theatre Arts 1 is an introductory class with a focus on performance. The student will develop concepts about self, human relationships, elements of drama and conventions of theatre. Students will be introduced to all types of performance (acting for the stage, improvisation, scenes, and vignettes, etc.) Student will also create and perform their own original scenes in various theatrical genres.

## Theatre Arts 2-4

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 10-12

**Prerequisite:** Courses must be taken in sequence

Emphasis is placed on utilizing advanced characterization in role development: exploring classical and contemporary production styles; historical evolution of performance style and costumes as well as focusing attention to other forms of performance opportunities through radio, television and film. Class will produce a performance integrating all elements of theatre.

## Technical Theatre 1-4

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** None.

Technical Theatre will concentrate on backstage aspects of play production. Students will study set design and construction, scenery, props, lighting, sound, costumes and make-up in a safe hands-on environment. Students will be involved in creating the technical aspects of productions..

## Musical Theatre 1-4

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Schedule code:** Choir 1, 2 or Vocal Ensemble 1,2
**Prerequisite:** By audition only.

Musical Theatre will concentrate on concepts about self, human relationships, and the environment using elements of drama, dance, music and the conventions of musical theatre. Students interpret characters through acting, singing, and dance using voice and body expressively and create dramatizations called for in a musical script.

# DEBATE & ORAL INTERPRETATION

## Debate 1

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** None.

Students analyze and apply specific formats for debate and processes of logic and critical thinking. Reading experiences, practice writing single issue briefs, interpreting resolutions, developing affirmative and negative case construction, listening to and performing cross examination, evaluating arguments and presenting debates are heavily emphasized in the course; and other wrap-around, associated ideas are presented as well. Students are expected to attend competitive tournaments on a regular basis.

## Debate 2

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 10-12

**Prerequisite:** Debate 1.

Debate 1 is the introductory course and Debate 2 and 3 increase in skill level.

## Debate 2 Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 10-12

**Prerequisite:** Debate 1.

Debate 1 is the introductory course and Debate 2 and 3 increase in skill level. Competition at speech tournaments is required in Debate 2 and 3 classes.

## Debate 3

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 10-12

**Prerequisite:** Debate 1.

Debate 1 is the introductory course and Debate 2 and 3 increase in skill level.

## Debate 3 Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement**: 11-12

**Prerequisite:** English 3 if using this course as 4th English, Debate II.

Debate 1 is the introductory course and Debate 2 and 3 increase in skill level. Competition at speech tournaments is required in Debate 2 and 3 classes.

## Independent Study in Speech (1st time taken) - Debate 4 Honors (*Weighted*)

**1-2 semesters/0.5- 1 credit/ 1 period**

**Grade Placement**: 12

**Prerequisite:** Debate 3 Honors.

Debate 1 is the introductory course and Debate 2 and 3 increase in skill level. Competition at speech tournaments is required in Debate 2 and 3 classes.

## Oral Interpretation 1

**2 semesters/1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** None.

Literature and its presentation are integral to understanding the culture aspects of society. Students in Oral Interpretation I will select, research, analyze, adapt, interpret, and perform literary texts as a communication art. Students focus on intellectual, emotional, sensory, and aesthetic levels of texts to attempt to capture the entirety of the author's work. Individual or group performances of literature will be presented and evaluated.

## Oral Interpretation 3 Honors (*Weighted*)

**2 semesters/1 credit/ 1 period**

**Grade Placement**: 10-12

**Prerequisite:** English 3 if using this course as 4th English, Oral Interpretation II.

In Oral interpretation, students study the oral reading or performance of a literary text as a communication art. Students enrolled in Oral Interpretation I, II, III, will select, research, analyze, adapt, interpret, and perform literary texts. Students focus on intellectual, emotional, sensory, and aesthetic levels of texts and attempt to capture the entirety of the author's work. Individual or group performances of literature will be presented and evaluated. Competition at speech tournaments is expected in Oral Interp II and III classes.

## Oral Interpretation 2 Honors (*Weighted*)

**2 semesters/1 credit/ 1 period**

**Grade Placement**: 10-12

**Prerequisite:** Oral Interpretation 1.

In Oral interpretation, students study the oral reading or performance of a literary text as a communication art. Students enrolled in Oral Interpretation I, II, III, will select, research, analyze, adapt, interpret, and perform literary texts. Students focus on intellectual, emotional, sensory, and aesthetic levels of texts and attempt to capture the entirety of the author's work. Individual or group performances of literature will be presented and evaluated. Competition at speech tournaments is expected in Oral Interp II and III classes.

## Independent Study in Speech (2nd time taken) - Oral Interpretation 4 Honors (*Weighted*)

**1-2 semesters/0.5- 1 credit/ 1 period**

**Grade Placement**: 12

**Prerequisite:** Oral Interpretation 3 Honors.

In Oral interpretation, students study the oral reading or performance of a literary text as a communication art. Students enrolled in Oral Interpretation I, II, III, will select, research, analyze, adapt, interpret, and perform literary texts. Students focus on intellectual, emotional, sensory, and aesthetic levels of texts and attempt to capture the entirety of the author's work. Individual or group performances of literature will be presented and evaluated. Competition at speech tournaments is expected in Oral Interp. II and III classes. This course would build on Oral Interpretation III curriculum with a greater focus on research, presentation, and literary analysis.

# HUMANITIES

## Humanities (Academic Decathlon 1)

**2 semesters/1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** Teacher Approval.

Students enrolled in Humanities will engage in rigorous, in-depth study in various thematically connected subject areas. Art, music, science, mathematics, writing, speaking, social studies, economics, and reading will be part of the curriculum. This course includes the study of major historical and cultural movements and their relationship to literature and the other fine arts. Humanities is a rigorous course of study in which high school students respond to aesthetic elements in texts and other art forms through outlets such as discussions, journals, oral interpretations, and dramatizations. Students read widely to understand the commonalities that literature shares with the fine arts and with science. The theme of the Humanities class changes year to year according to national Academic Decathlon curriculum guidelines. Emphasis will be on study skills, research, speaking, and writing.

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

## Humanities Honors* (*Weighted*) (Academic Decathlon 1)

**2 semesters/1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** Teacher Approval.

Students enrolled in Humanities will engage in rigorous, in-depth study in various thematically connected subject areas. Art, music, science, mathematics, writing, speaking, social studies, economics, and reading will be part of the curriculum. This course includes the study of major historical and cultural movements and their relationship to literature and the other fine arts. Humanities is a rigorous course of study in which high school students respond to aesthetic elements in texts and other art forms through outlets such as discussions, journals, oral interpretations, and dramatizations. Students read widely to understand the commonalities that literature shares with the fine arts and with science. The theme of the Humanities class changes year to year according to national Academic Decathlon curriculum guidelines. Emphasis will be on study skills, research, speaking, and writing.

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

## Independent Study in English 1-3 (Academic Decathlon 2-4)

**2 semesters/1 credit/ 1 period**

**Grade Placement**: 10-12

**Prerequisite:** Humanities and Teacher Approval.

Students enrolled in Independent Study in English will engage in rigorous, in-depth study in various thematically connected subject areas. Art, music, science, mathematics, writing, speaking, social studies, economics, and reading will be part of the curriculum. This course includes the study of major historical and cultural movements and their relationship to literature and the other fine arts. Humanities is a rigorous course of study in which high school students respond to aesthetic elements in texts and other art forms through outlets such as discussions, journals, oral interpretations, and dramatizations. Students read widely to understand the commonalities that literature shares with the fine arts and with science. The theme of the Humanities class changes year to year according to national Academic Decathlon curriculum guidelines. Emphasis will be on study skills, research, speaking, and writing.

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

## Independent Study in English 1-3* (*Weighted*) (Academic Decathlon 2-4)

**2 semesters/1 credit/ 1 period**

**Grade Placement**: 10-12

**Prerequisite:** Humanities and Teacher Approval.

Students enrolled in Independent Study in English will engage in rigorous, in-depth study in various thematically connected subject areas. Art, music, science, mathematics, writing, speaking, social studies, economics, and reading will be part of the curriculum. This course includes the study of major historical and cultural movements and their relationship to literature and the other fine arts. Humanities is a rigorous course of study in which high school students respond to aesthetic elements in texts and other art forms through outlets such as discussions, journals, oral interpretations, and dramatizations. Students read widely to understand the commonalities that literature shares with the fine arts and with science. The theme of the Humanities class changes year to year according to national Academic Decathlon curriculum guidelines. Emphasis will be on study skills, research, speaking, and writing.

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

***To earn Honors (weighted) credit for this course, students must complete additional performance measures:**

1) Compete at Region competition and State competition (if the team advances)
2) Attend 90% of after-school practices/study sessions and practice meets

# SPORTS MEDICINE

## Sports Medicine 1

**2 semesters/1 credit/ 1 period**

**Grade Placement**: 9-12

**Prerequisite:** Must have the approval of the Licensed Athletic Trainer supervising the student athletic training program.

It is a class to be offered to high school students to provide an opportunity for the study and application of the components of sports medicine. SM I can be a method to recruit athletic training students and educate students about sports medicine careers.

## Sports Medicine 2

**2 semesters/1 credit/ 1 period**

**Grade Placement**: 10-12

**Prerequisite:** Must have the approval of the Licensed Athletic Trainer supervising the student athletic training program.

This course is designed for students in the student athletic training program, and provides a more in-depth study and application of the components of sports medicine. Individualized and independent assignments will be included in this course. This course will involve outside-of-class time homework and time required working with athletes and athletic teams.

## Sports Medicine 3

**2 semesters/1 credit/ 1 period**

**Grade Placement**: 11-12

**Prerequisite:** Must have the approval of the Licensed Athletic Trainer supervising the student athletic training program.

The course will provide opportunities for the advanced students in the sports medicine programs to research, investigate, prepare, and present case studies, research projects, visual poster presentations, and multimedia presentations on instructor approved topics. Sports Medicine III will provide the junior/senior level athletic training students the opportunity to explore a healthcare career of their choice.

# TULOSO-MIDWAY ISD
# PROGRAMS OF STUDY

# BUSINESS & INDUSTRY ENDORSEMENT

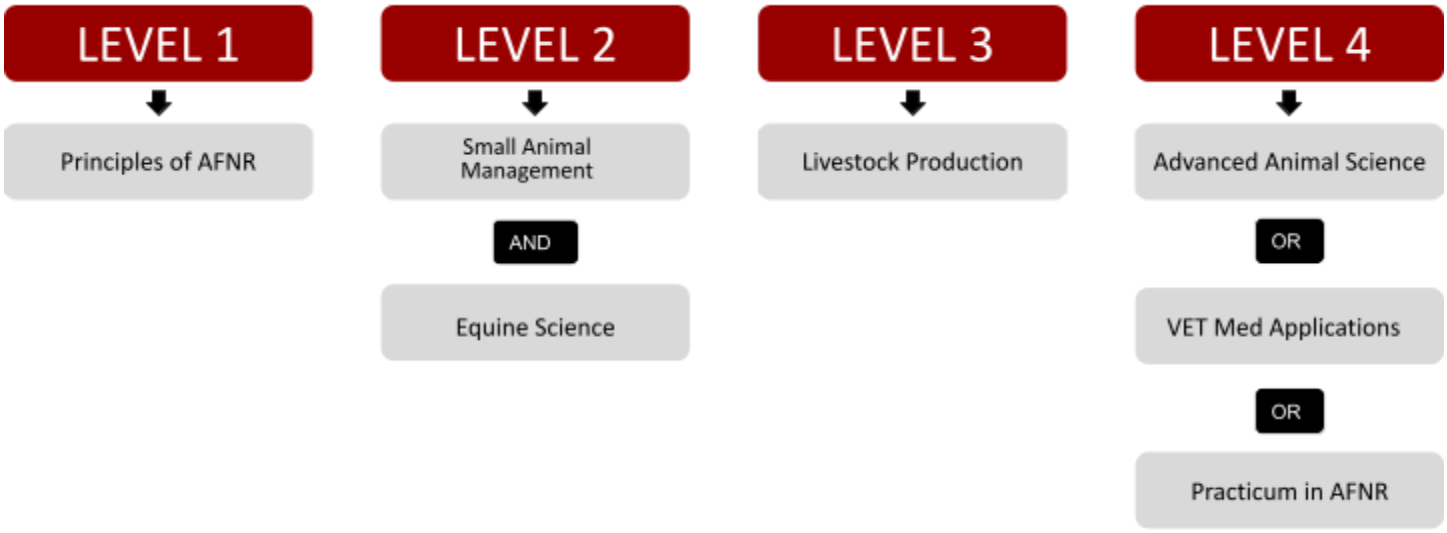
| Business & Industry | CURRICULUM REQUIREMENTS<br>*Below is a comprehensive listing of options made available by the State; however, not all options are available in TMISD* |
|---|---|
| Below is a comprehensive listing of options made available by the State: Includes courses directly related to: Agricultural Science; Marketing & Sales; Business; Welding; Robotics; and Animal Science. | Students must complete one of the following options for the Business & Industry Endorsement:<br>A. A coherent sequence of courses for four or more credits in CTE that consists of at least two courses in the same career cluster, including at least one advanced CTE course. The final course in the sequence must be obtained from one of the CTE career clusters:<br>(i) Agriculture, Food, & Natural Resources; or (ii) Architecture & Construction; or<br>(iii) Arts, Audio/Visual Technology, & Communications; or<br>(iv) Business Management & Administration; or<br>(v) Finance; or<br>(vi) Hospitality & Tourism; or<br>(vii) Information Technology; or<br>(viii) Manufacturing; or<br>(ix) Marketing; or<br>(x) Transportation, Distribution, & Logistics; or (xi) Business & Industry-related Career Preparation I or II; or<br>B. Courses required to complete a TEA-designated program of study related to business and industry; or<br>C. Four English elective credits to include three levels in one of the following areas:<br>a. (i)* Public speaking; or<br>b. (ii) Debate; or<br>c. (iii)* Advanced broadcast journalism; or<br>d. (iv) Advanced journalism: newspaper; or<br>e. (v) Advanced journalism: yearbook; or<br>D. A coherent sequence of three additional credits from no more than two of the categories or disciplines represented by subparagraphs (A), (B), (C), and (D) of this paragraph. |

**BUSINESS & INDUSTRY REQUIRED COURSES**

FHSP coursework, 4th Math credit, 4th Science credit, plus one of the following pathways below:

| CTE<br>4 credits in the B&I Career Clusters, including at least one advanced B&I CTE Credit | English: Debate<br>4 credits in English electives to include 3 levels of Debate/ Oral Interpretation | Business & Industry Combo<br>4 credits from all B&I courses |
|---|---|---|
| 1st CTE credit | 4th English Option or English Elective | 1st Combo Credit |
| 2nd CTE credit | Debate 1 | 2nd Combo Credit |
| 3rd CTE credit | Debate 2 | 3rd Combo Credit |
| 4th CTE credit | Debate 3 | 4th Combo Credit |

# **ANIMAL SCIENCE** *VETERINARY MEDICAL ASSISTANT*




**Certifications Offered:** Certified Veterinary Assistant, Level 1; Feedyard Technician in Cattle Care and Handling and OSHA 30 HR General Industry

## Principles of Agriculture, Food, and Natural Resources

**2 semesters/1 credit/ 1 period** **(Course Level 1)**

**Grade Placement**: 9-10

**Prerequisite:** None.

This course will prepare students for careers in agriculture, food, and natural resources. This course allows students the opportunity to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations.

## Small Animal Management

**1 semester/0.5 credit/ 1 period** **(Course Level 2)**

**Grade Placement**: 9-11

**Prerequisite:** None.

**Certification offered in this course.**

This course will prepare students for careers in the field of animal sciences. This course will allow students an opportunity to develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. Animal species to be addressed in this course may include: small mammals, amphibians, reptiles, avian, dogs, and cats.

## Equine Science

**1 semester/0.5 credit/ 1 period** **(Course Level 2)**

**Grade Placement**: 9-11

**Prerequisite:** None.

**Certification offered in this course.**

This course will prepare students for careers in the field of Animal Science or Equine Science. To be prepared for careers in the field of animal science, students need to enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. Suggested animals which may be included in the course of study include, but are not limited to, horses, donkeys, and mules.

## Livestock Production

**2 semesters/1 credit/ 1 period** **(Course Level 3)**
**Grade Placement**: 9-11

**Prerequisite:** Must follow Animal Science Pathway.
**Certification offered in this course.**

This course will prepare students for careers in the field of animal sciences. This course will allow students an opportunity to develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. Animal species to be addressed in this course may include, but are not limited to: beef cattle, swine, sheep, goats, and poultry.

## Advanced Animal Science (*Weighted*)

**2 semesters/1 credit/ 1 period** **(Course Level 4)**
**Grade Placement**: 11-12

**Prerequisite:** Biology and Chemistry, Algebra, Geometry; and Small Animal Management Equine Science, or Livestock Production.
**Certification offered in this course.**

This course will prepare students for careers in the field of animal science. This course will allow the students an opportunity to acquire skills related to animal systems, interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction applies scientific and technological aspects of animal science through field and laboratory experiences. This course can count as 4th year science if taken in science sequence.

## Veterinary Medical Applications

**2 semesters/1 credit/ 1 period** **(Course Level 4)**
**Grade Placement**: 11-12

**Prerequisite:** Livestock Production, Small Animal Management or Equine Science.
**Certification offered in this course.**

This course will prepare students for careers in the field of animal science. This course will allow students an opportunity to learn, reinforce, apply, and transfer knowledge, skills, and technologies in a variety of settings. Topics covered in this course include, but not limited to: veterinary practices as they relate to both large and small animal species.

## Practicum in Agriculture, Food, and Natural Resources (*Weighted*)

**2 semesters/2 credits/ 2 periods** **(Course Level 4)**
**Grade Placement**: 11-12

**Prerequisite:** Livestock Production, Small Animal Management or Equine Science.
**Certification offered in this course.**

This course will prepare students for careers in the field of animal science. This course will allow students an opportunity to learn, reinforce, apply, and transfer knowledge, skills, and technologies in a variety of settings. Topics covered in this course include, but not limited to: veterinary practices as they relate to both large and small animal species.

# BUSINESS MANAGEMENT


**Certifications Offered:** Microsoft Office Specialist – Word, Excel, PowerPoint; Microsoft Office Specialist Word Expert

## Business Information Management (BIM) 1

**2 semesters/1 credit/ 1 period** **(Course Level 1)**
**Grade Placement**: 9-10

**Prerequisite:** None.
**Certification offered in this course.**

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

## Business Information Management (BIM) 2

**2 semesters/1 credit/ 1 period** **(Course Level 2)**
**Grade Placement**: 10-11

**Prerequisite:** BIM 1.
**Certification offered in this course.**

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

## Business Law

**2 semesters/1 credit/ 1 period** **(Course Level 3)**
**Grade Placement**: 10-11

**Prerequisite:** Must Follow Business Management Pathway.

Students apply technical skills to address business applications of contemporary legal issues such as legal environment, business ethics, torts, contracts, negotiable financial instruments, personal property, sales, warranties, business organizations, concept agency and employment, and real property.

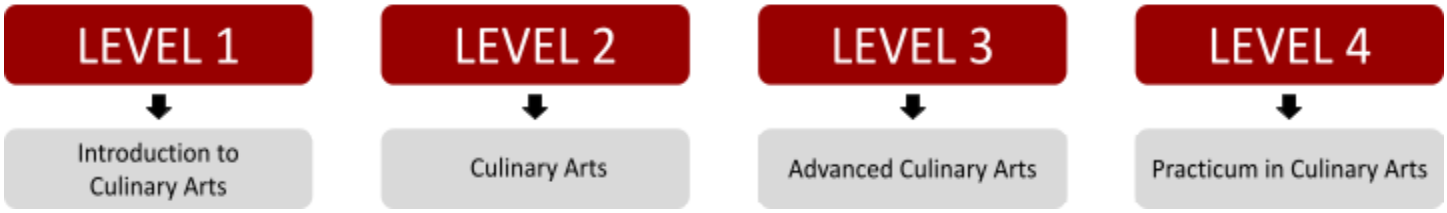
## Business Management

**2 semesters/1 credit/ 1 period** **(Course Level 4)**
**Grade Placement**: 10-11

**Prerequisite:** Must Follow Business Management Pathway.

Students analyze the primary functions of management and leadership, which are planning, organizing, staffing, directing or leading, and controlling. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate management decisions.

# CULINARY ARTS




**Certifications Offered:** ServSafe; Certified Fundamentals Cook (CFC); Certified Fundamentals Pastry Cook (CFPC)

## Introduction to Culinary Arts

**2 semesters/1 credit/ 1 period** **(Course Level 1)**
**Grade Placement**: 9-10

**Prerequisite:** None.
**Certification offered in this course.**

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

## Culinary Arts

**2 semesters/2 credits/ 2 periods** **(Course Level 2)**
**Grade Placement**: 10-11

**Prerequisite:** None.
**Certification offered in this course.**

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

## Advanced Culinary Arts

**2 semesters/2 credits/ 2 periods** **(Course Level 3)**
**Grade Placement**: 10-11

**Prerequisite:** Culinary Arts.
**Certification offered in this course.**

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

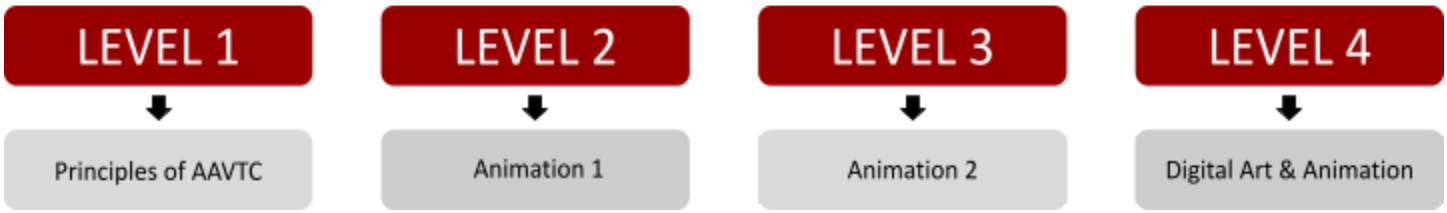
## Practicum in Culinary Arts (*Weighted*)

**2 semesters/2 credits/ 2 periods** **(Course Level 4)**
**Grade Placement**: 10-11

**Prerequisite:** Culinary Arts.
**Certification offered in this course.**

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

# DESIGN & MULTIMEDIA ARTS *ANIMATION*




**Certifications Offered:** Adobe Certified Associate – Photoshop and Illustrator

## Principles of Arts, Audio/Video Technology, and Communications

**2 semesters/1 credit/ 1 period** **(Course Level 1)**
**Grade Placement**: 9

**Prerequisite:** None.

This course requires a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.

## Animation 1

**2 semesters/1 credit/ 1 period** **(Course Level 2)**
**Grade Placement**: 10-11

**Prerequisite:** None.
**Certifications offered in this course.**

Students will develop technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications careers and develop an understanding of the history and techniques of the animation industry. This course fulfills technology requirement for graduation.

## Animation 2

**2 semesters/1 credit/ 1 period** **(Course Level 3)**
**Grade Placement**: 11-12

**Prerequisite:** None.
**Certifications offered in this course.**

Students will develop advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster and will be expected to create two- and three-dimensional animations.

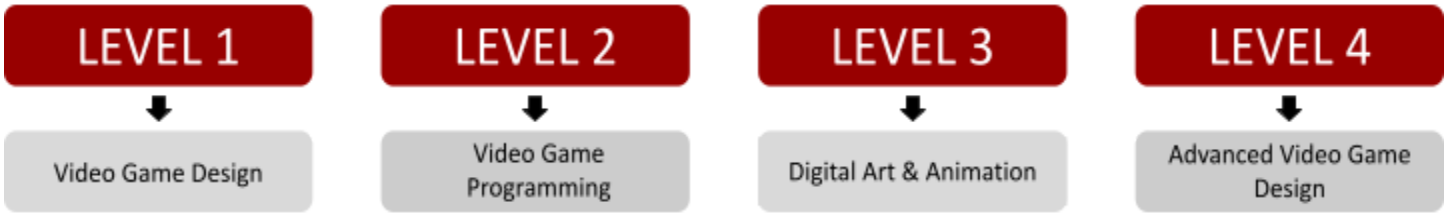
## Digital Art & Animation

**2 semesters/1 credit/ 1 period** **(Course Level 4)**
**Grade Placement**: 10-12

**Prerequisite:** None.
**Certifications offered in this course.**

Digital Art and Animation consists of computer images and animations created with digital imaging software. Students will demonstrate creative thinking, develop innovative strategies, and use communication tools in order to work effectively with others and independently. Digital Art and Animation has applications in many careers, including graphic design, advertising, web design, animation, corporate communications, illustration, character development, script writing, storyboarding, directing, producing, inking, project management, editing, as well as the magazine, television, film, and game industries. Students in this course will produce various real-world projects and animations. This course fulfills the fine arts requirement for graduation.

# DESIGN & MULTIMEDIA ARTS *GAME DESIGN*




**Certifications Offered:** Adobe Certified Associate – Photoshop and Illustrator

## Video Game Design

**2 semesters/1 credit/ 1 period** **(Course Level 1)**
**Grade Placement**: 9-10

**Prerequisite:** None.

Video Game Design will allow students to explore one of the largest industries in the global marketplace and the new emerging careers it provides in the field of technology. Students will learn gaming, computerized gaming, evolution of gaming, artistic aspects of perspective, design, animation, technical concepts of collision theory, and programming logic. Students will participate in a simulation of a real video game design team while developing technical proficiency in constructing an original game design.

## Advanced Video Game Programming

**2 semesters/1 credit/ 1 period** **(Course Level 3)**
**Grade Placement**: 11-12

**Prerequisite:** Video Game Design and Video Game Programming.

Advanced Video Game Programming students will be introduced to mobile application design and programming using Java and Eclipse for Android devices. Time will be spent learning basic Java programming and working with Android Studio to develop real working apps. Using Unity as an introduction to 3D game development, students will have exposure to and an understanding of: object-oriented programming concepts; game development skill with programs such as Unity; 3D modeling with programs such as Blender; image manipulation with programs such as GIMP; concepts related to the design process; and the ability to communicate and collaborate on group-based projects.

## Video Game Programming

**2 semesters/1 credit/ 1 period** **(Course Level 2)**
**Grade Placement**: 10-11

**Prerequisite:** Video Game Design.

Video Game Programming expands on the foundation created in Video Game Design through programming languages such as: C# programming, XNA game studio, Java, and Android App. In this course, students will investigate the inner workings of a fully functional role-playing game (RPG) by customizing playable characters, items, maps, and chests and eventually applying customizations by altering and enhancing the core game code.

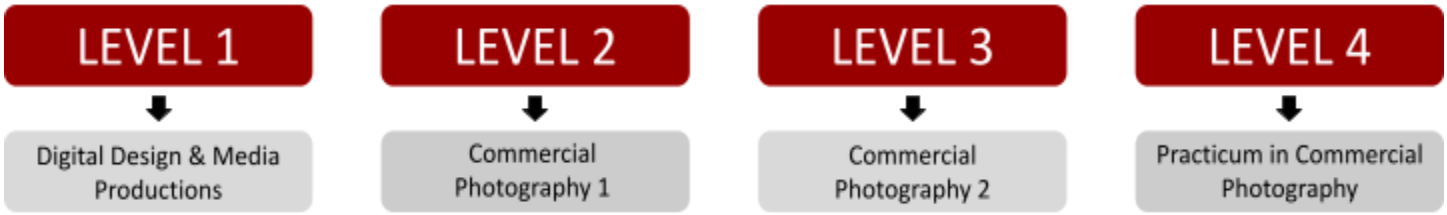
## Digital Art & Animation

**2 semesters/1 credit/ 1 period** **(Course Level 4)**
**Grade Placement**: 10-12

**Prerequisite:** None.
**Certifications offered in this course.**

Digital Art and Animation consists of computer images and animations created with digital imaging software. Students will demonstrate creative thinking, develop innovative strategies, and use communication tools in order to work effectively with others and independently. Digital Art and Animation has applications in many careers, including graphic design, advertising, web design, animation, corporate communications, illustration, character development, script writing, storyboarding, directing, producing, inking, project management, editing, as well as the magazine, television, film, and game industries. Students in this course will produce various real-world projects and animations. This course fulfills the fine arts requirement for graduation.

# DESIGN & MULTIMEDIA ARTS *PHOTOGRAPHY*




**Certifications Offered:** Adobe Certified Associate – Photoshop and Illustrator

## Digital Design & Media Productions

**2 semesters/1 credit/ 1 period** **(Course Level 1)**
**Grade Placement**: 9-10

**Prerequisite:** None.

Digital Design and Media Production will allow students to demonstrate creative thinking, develop innovative strategies, and use communication tools in order to work effectively with others as well as independently. Students will gather information electronically, which will allow for problem solving and making informed decisions regarding media projects. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will demonstrate a thorough understanding of digital design principles that is transferable to other disciplines. The six strands include creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.

## Commercial Photography 1 Lab

**2 semesters/2 credit/ 2 period** **(Course Level 2)**
**Grade Placement**: 10-11

**Prerequisite:** None.
**Certifications offered in this course.**

In addition to developing knowledge and skills needed for success in the Arts, Audio/VideoTechnology, and Communications Career Cluster, students will be expected to develop an understanding of the commercial photography industry with a focus on creating quality photographs.

## Commercial Photography 2

**2 semesters/1 credit/ 1 period** **(Course Level 3)**
**Grade Placement**: 11-12

**Prerequisite:** Commercial Photography 1.
**Certifications offered in this course.**

In addition to developing knowledge and skills needed for success in the Arts, Audio/VideoTechnology, 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..

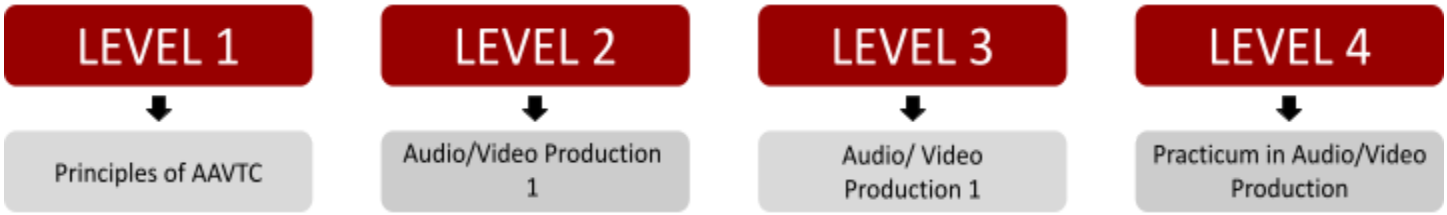
## Practicum in Commercial Photography (*Weighted*)

**2 semesters/2 credit/ 2 period** **(Course Level 4)**
**Grade Placement**: 11-12

**Prerequisite:** Commercial Photography 1, Commercial Photography 1 Lab, and Teacher Approval.

In addition to developing knowledge and skills needed for success in the Arts, Audio/VideoTechnology, 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..

# DIGITAL COMMUNICATIONS *A/V PRODUCTION*




**Certifications Offered:** Adobe Certified Associate – Photoshop and Illustrator

## Principles of Arts, Audio/Video Technology, and Communications

**2 semesters/1 credit/ 1 period** **(Course Level 1)**
**Grade Placement**: 9

**Prerequisite:** None.

This course requires a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.

## Audio/Video Production 2 Lab

**2 semesters/2 credit/ 2 period** **(Course Level 3)**
**Grade Placement**: 11-12

**Prerequisite:** Audio/ Video Production 1.

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

## Audio/Video Production 1

**2 semesters/1 credit/ 1 period** **(Course Level 2)**
**Grade Placement**: 10-11

**Prerequisite:** None.

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

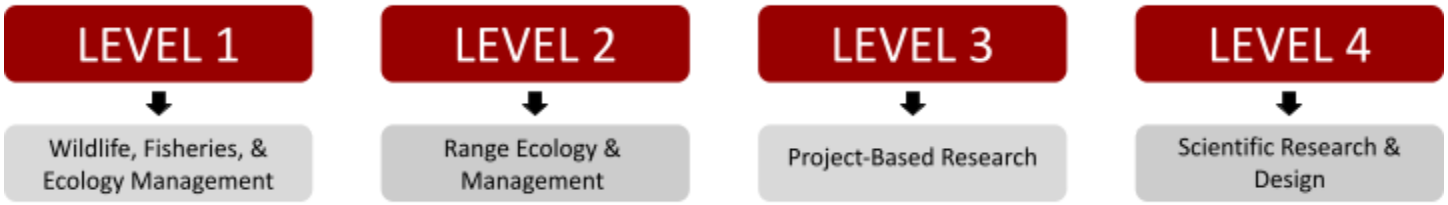
## Practicum in Audio/Video Production (*Weighted*)

**2 semesters/2 credit/ 2 period** **(Course Level 4)**
**Grade Placement**: 11-12

**Prerequisite:** Audio/Video Production 2 Lab

Building upon the concepts taught in Audio/Video Production II and its corequisite Audio/Video Production II Lab, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production, and post-production audio and video products in a professional environment. This course may be implemented in an advanced audio/video or audio format. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

# ENVIRONMENTAL & NATURAL RESOURCES




**Certifications Offered:** Boaters Education Certification, Hunter Education Certification, and OSHA 30 HR General Industry, FAA Part 107 Remote Drone Pilot

## Wildlife, Fisheries, & Ecology Management

**2 semesters/1 credit/ 1 period** **(Course Level 1)**
**Grade Placement**: 9-10

**Prerequisite:** None.
**Certifications offered in this course.**

Wildlife, Fisheries, and Ecology Management examines the management of game and non-game wildlife species, fish, and aqua crops and their ecological needs as related to current agricultural practices. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

## Project-Based Research

**2 semesters/1 credit/ 1 period** **(Course Level 3)**
**Grade Placement**: 11-12

**Prerequisite:** None.

Project-Based Research is a course for students to research a real-world problem. Students are matched with a mentor from the business or professional community to develop an original project on a topic related to career interests. Students use scientific methods of investigation to conduct in-depth research, compile findings, and present their findings to an audience that includes experts in the field. To attain academic success, students must have opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

## Range Ecology & Management

**2 semesters/1 credit/ 1 period** **(Course Level 2)**
**Grade Placement**: 10-12

**Prerequisite:** None.

Range Ecology and Management is designed to develop students' understanding of rangeland ecosystems and sustainable forage production.

## Scientific Research and Design (*Weighted*)

**2 semesters/1 credit/ 1 period** **(Course Level 4)**
**Grade Placement**: 10-12

**Prerequisite:** Biology, Chemistry, & Physics.
**Certifications offered in this course.**

The course has the components of any rigorous scientific or engineering program of study from the problem identification, investigation design, data collection, data analysis, formulation, and presentation of the conclusions. These components are integrated with the career and technical education emphasis of helping students gain entry-level employment in high-skill, high-wage jobs and/or continue their education. **Students must meet the 40% laboratory and fieldwork requirement. Counts as 4th Science Credit.**

# MARKETING & SALES


## Sports & Entertainment Marketing 1

**1 semester/ 0.5 credit/ 1 period** **(Course Level 1)**
**Grade Placement**: 9-10

**Prerequisite:** None.

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

## Marketing

**2 semesters/ 1 credit/ 1 period** **(Course Level 2)**
**Grade Placement**: 9-10

**Prerequisite:** None.

Marketing explores the seven core functions of marketing which include: marketing planning – why target market and industry affect businesses; marketing-information management – why market research is important; pricing – how prices maximize profit and affect the perceived value; product/service management – why products live and die; promotion – how to inform customers about products; channel management – how products reach the final user; and selling – how to convince a customer that a product is the best choice. Students will demonstrate knowledge in hands-on projects which may include conducting research, creating a promotional plan, pitching a sales presentation, and introducing an idea for a new product/service.

## Advertising

**1 semester/ 0.5 credit/ 1 period** **(Course Level 1)**
**Grade Placement**: 9-10

**Prerequisite:** None.

Advertising is designed as a comprehensive introduction to the principles and practices of advertising. Students will gain knowledge of techniques used in current advertising, including print, broadcast, and digital media. The course explores the social, cultural, ethical, and legal issues of advertising, historical influences, strategies, media decision processes as well as integrated marketing communications, and careers in advertising and sales promotion. The course provides an overview of how communication tools can be used to reach target audiences and increase consumer knowledge.

## Social Media Marketing

**1 semester/ 0.5 credit/ 1 period** **(Course Level 3)**
**Grade Placement**: 10-11

**Prerequisite:** None.

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

## Sports & Entertainment Marketing 2

**1 semester/ 0.5 credit/ 1 period** **(Course Level 3)**
**Grade Placement**: 9-10

**Prerequisite:** None.

Sports and Entertainment Marketing II is an advanced course designed to build upon students' prior knowledge of sports and entertainment marketing. Students will develop a thorough understanding of advanced marketing concepts and theories as they relate to the sports and entertainment industries. Students will investigate the components of branding, sponsorships and endorsements, as well as promotion plans needed for sports and entertainment events. The course also supports career development skills and explores career options.

## Career Preparation 1

**2 semesters/ 2 credit/ 2 period** **(Course Level 4)**
**Grade Placement**: 11-12

**Prerequisite:** Application & Teacher Approval.

Students analyze the primary functions of management and leadership, which are planning, organizing, staffing, directing or leading, and controlling. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate management decisions. **Students must be 16 years old prior to the first day of school.** Students must carry at least 10 work hours per week for this 2-credit course. **Students must register for all required courses before enrolling in the work-study program.**

## Practicum in Marketing (*Weighted*)

**2 semesters/ 2 credit/ 2 period** **(Course Level 4)**
**Grade Placement**: 11-12

**Prerequisite:** Application & Teacher Approval.

Students analyze the primary functions of management and leadership, which are planning, organizing, staffing, directing or leading, and controlling. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate management decisions. **Students must be 16 years old prior to the first day of school.** Students must carry at least 10 work hours per week for this 2-credit course. **Students must register for all required courses before enrolling in the work-study program.**

# PLANT SCIENCE *FLORAL DESIGN*


**Certifications Offered:** Texas State Florists' Association, Level 1-Knowledge Based and Texas State Florists' Association, Level 2, FAA Part 107 Drone Remote Pilot, OSHA 30 HR General Industry

## Floral Design

**2 semesters/ 1 credit/ 1 period** **(Course Level 1)**
**Grade Placement**: 9-10

**Prerequisite:** None.
**Certifications offered in this course.**

This course will prepare students for careers in floral design. This course will allow students to attain academic skills and knowledge as well as technical knowledge and skills related to horticultural systems and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises.

## Greenhouse Operation and Production

**2 semesters/ 1 credit/ 1 period** **(Course Level 2)**
**Grade Placement**: 10-11

**Prerequisite:** None.
**Certifications offered in this course.**

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

## Advanced Floral Design (*Weighted*)

**2 semesters/ 1 credit/ 1 period** **(Course Level 3)**
**Grade Placement**: 10-11

**Prerequisite:** None.
**Certifications offered in this course.**

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

## Scientific Research and Design (*Weighted*)

**2 semesters/1 credit/ 1 period** **(Course Level 4)**
**Grade Placement**: 10-12

**Prerequisite:** Biology, Chemistry, & Physics.
**Certifications offered in this course.**

The course has the components of any rigorous scientific or engineering program of study from the problem identification, investigation design, data collection, data analysis, formulation, and presentation of the conclusions. These components are integrated with the career and technical education emphasis of helping students gain entry-level employment in high-skill, high-wage jobs and/or continue their education. **Students must meet the 40% laboratory and fieldwork requirement. Counts as 4th Science Credit.**

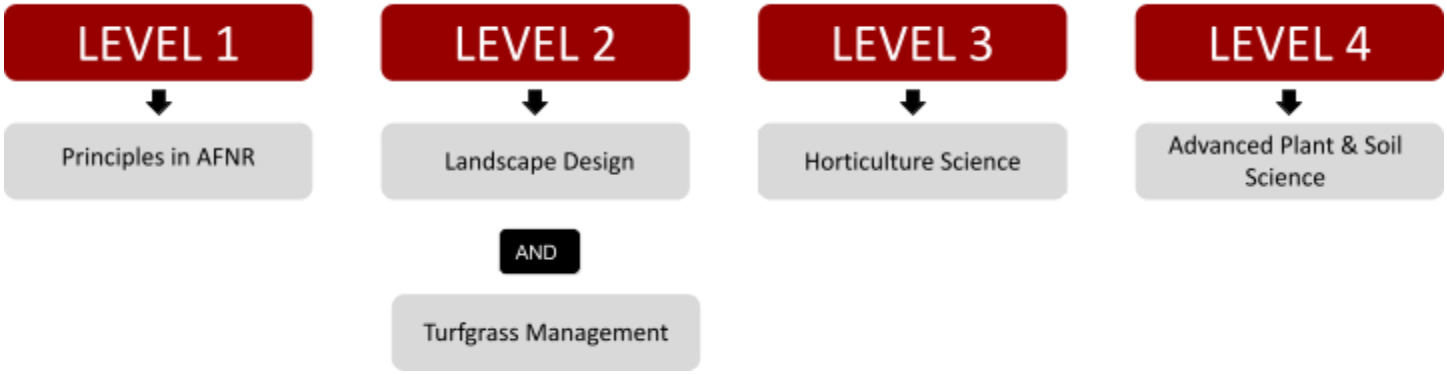
## Project-Based Research

**2 semesters/1 credit/ 1 period** **(Course Level 4)**
**Grade Placement**: 11-12

**Prerequisite:** None.

Project-Based Research is a course for students to research a real-world problem. Students are matched with a mentor from the business or professional community to develop an original project on a topic related to career interests. Students use scientific methods of investigation to conduct in-depth research, compile findings, and present their findings to an audience that includes experts in the field. To attain academic success, students must have opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

# PLANT SCIENCE *PLANT & SOIL*




**Certifications Offered:** OSHA 30 HR General Industry, Commercial/Noncommercial Pesticide Applicator, Feedyard Technician in Cattle Care and Handling

## Principles of Agricultural, Food, and Natural Resources

**2 semesters/1 credit/ 1 period** **(Course Level 1)**

**Grade Placement**: 9-10

**Prerequisite:** None.

This course will prepare students for careers in agriculture, food, and natural resources. This course allows students the opportunity to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations.

## Landscape Design

**1 semester/0.5 credit/ 1 period** **(Course Level 2)**

**Grade Placement**: 10-11

**Prerequisite:** None.
**Certifications offered in this course.**

This course will prepare students for careers in horticultural systems. This course will allow students to attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. This course is designed to develop an understanding of landscape and turf grass management techniques and practices.

## Turf Grass Management

**1 semester/0.5 credit/ 1 period** **(Course Level 2)**

**Grade Placement**: 10-11

**Prerequisite:** None.
**Certifications offered in this course.**

To be prepared for careers in horticultural systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings. This course is designed to develop an understanding of landscape and turf grass management techniques and practices.

## Horticulture Science

**2 semesters/1 credit/ 1 period** **(Course Level 3)**

**Grade Placement**: 11-12

**Prerequisite:** None.

This course will prepare students for careers in horticultural systems. It will allow students 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, and industry expectations. This course is designed to develop an understanding of common horticultural management practices as they relate to food and ornamental plant production.

## Advanced Plant and Soil Science (*Weighted*)

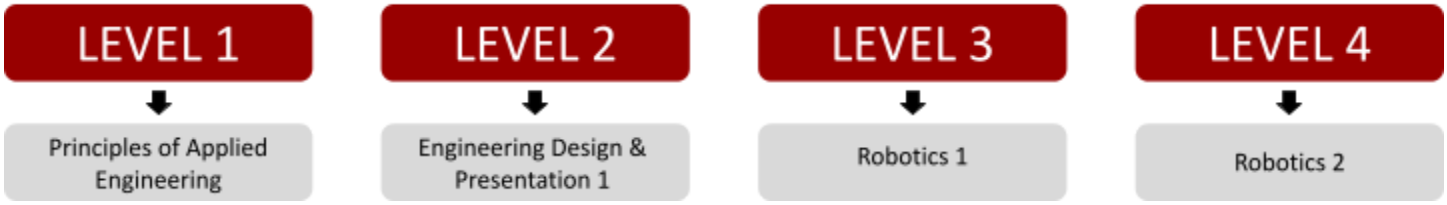
**2 semesters/1 credit/ 1 period** **(Course Level 4)**

**Grade Placement**: 11-12

**Prerequisite:** Must follow Plant Science Pathway.
**Certifications offered in this course.**

Plant and 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. Investigations, laboratory practices, and field exercises will be used to develop an understanding of current plant and soil science. This course is designed to prepare students for careers in the food and fiber industry. Students will learn, reinforce, apply, and transfer their knowledge in a scientific setting. This course can count as 4th year science if taken in science sequence.

# ROBOTICS




**Certifications Offered:** Autodesk Certified User – Inventor, OSHA 30 HR General Industry, FAA Part 107 Drone Pilot License

## Principles of Applied Engineering

**2 semesters/1 credit/ 1 period** **(Course Level 1)**

**Grade Placement**: 9-10

**Prerequisite:** None.
**Certifications offered in this course.**

Principles of Applied Engineering provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will use AutoCAD and Inventor to design mechanical parts and assemblies. Upon completing this course, students will understand the various Engineering fields and be able to read mechanical blue prints and design mechanical parts. This course will give them an insight into which engineering field they might want to pursue.

## Robotics 1

**2 semesters/1 credit/ 1 period** **(Course Level 3)**

**Grade Placement**: 11-12

**Prerequisite:** None.

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

## Engineering Design and Presentation I

**2 semesters/1 credit/ 1 period** **(Course Level 2)**

**Grade Placement**: 10-11

**Prerequisite:** Algebra 1.
**Certifications offered in this course.**

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

## Robotics 2 (*Weighted*)

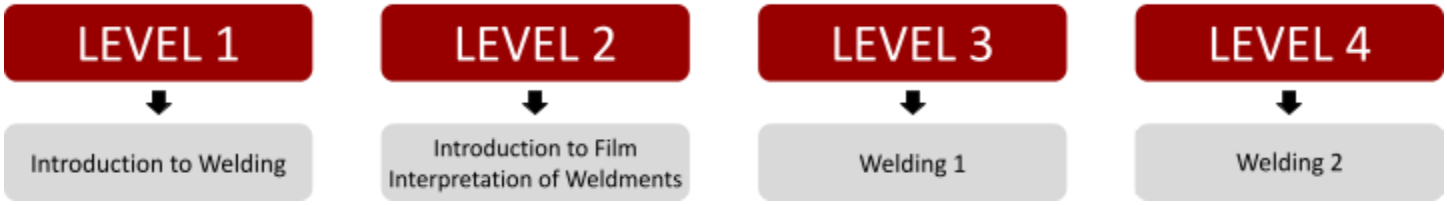
**2 semesters/1 credit/ 1 period** **(Course Level 4)**

**Grade Placement**: 11-12

**Prerequisite:** Robotics 1.
**Certifications offered in this course.**

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. **Counts as 3rd Level Math.**

# WELDING




**Certifications Offered:** AWS D1.1; AWS D9.1; AWS SENSE Welding Level 1

## Introduction to Welding

**2 semesters/1 credit/ 1 period** **(Course Level 1)**

**Grade Placement**: 9

**Prerequisite:** None.
**Certifications offered in this course.**

Introduction to Welding will introduce welding technology with an emphasis on basic welding laboratory principles and operating procedures. Students will be introduced to the three basic welding processes. Topics include: industrial safety and health practices, hand tool and power machine use, measurement, laboratory operating procedures, welding power sources, welding career potentials, and introduction to welding codes and standards. Introduction to Welding will provide students with the knowledge, skills, and technologies required for employment in welding industries. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills will prepare students for future success.

## Introduction to Film Interpretation of Weldments

**2 semesters/1 credit/ 1 period** **(Course Level 2)**

**Grade Placement**: 10

**Prerequisite:** Introduction to Welding or Administrative Approval.
**Certifications offered in this course.**

Introduction to Film Interpretation of Weldments provides an overview of non-destructive testing (NDT) principles. It includes coverage of the inspection process, systems, measurements, theories and practices. Students will identify terminology and fundamental concepts of film interpretation of weldments; describe the trends of NDT careers within the industry cluster; identify safety, health, environmental, and ergonomic issues in non-destructive testing; discuss quality and continuous improvement methods; describe the importance of maintenance and inspection within manufacturing; and identify processes and production steps in manufacturing.

## Welding 1 (*Weighted*)

**2 semesters/2 credits/ 2 periods** **(Course Level 3)**

**Grade Placement**: 11-12

**Prerequisite:** Must be on Welding Pathway.
**Certifications offered in this course.**

Welding I provide the knowledge, skills, and technologies required for employment in metal technology systems. Students will develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success.

## Welding 2 (*Weighted*)

**2 semesters/2 credits/ 2 periods** **(Course Level 4)**

**Grade Placement**: 12

**Prerequisite:** Must be on Welding Pathway.
**Certifications offered in this course.**

Welding II builds on the knowledge and skills developed in Welding I. Students will develop advanced welding concepts and skills as related to personal and career development. Students will integrate academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

# PUBLIC SERVICE ENDORSEMENT

| | |
|---|---|
| **Public Services**<br><br>Includes courses directly related to: Health Sciences and Occupations; Education and Training; and Law Enforcement. | **CURRICULUM REQUIREMENTS**<br>*Below is a comprehensive listing of options made available by the State; however, not all options are available in TMISD* |
| | Students must complete one of the following options for the Public Services Endorsement::<br>A. A coherent sequence of courses for four or more credits in CTE that consists of at least two courses in the same career cluster, including at least one advanced CTE course. The final course in the sequence must be obtained from one of the CTE career clusters:<br>(i) Education and Training; or<br>(ii)* Government and Public Administration; or<br>(iii) Health Science; or<br>(iv) Human Services; or<br>(v)* Law, Public Safety, Corrections, and Security; or<br>(vi) Public Services-related Career Preparation I or II; or<br>B. Courses required to complete a TEA-designated program of study related to public services; or<br>C. Four credits in Leadership Education & Training (Junior Reserve Officer Training Corps – JROTC). |

**PUBLIC SERVICE REQUIRED COURSES**

FHSP coursework, 4th Math credit, 4th Science credit, plus one of the following pathways below:

| **CTE**<br><br>4 credits in the Public Services Career Cluster, including at least one advanced Public Services CTE credit | **Leadership Education & Training (LET) JROTC** |
|---|---|
| 1st CTE credit | NJROTC 1 |
| 2nd CTE credit | NJROTC 2 |
| 3rd CTE credit | NJROTC 3 |
| 4th CTE credit | NJROTC 4 |

# HEALTHCARE DIAGNOSTICS *EKG/PHLEBOTOMY TECHNICIAN*


**Certifications Offered:** HeartSaver CPR First Aid, EKG Technician, Phlebotomy Technician

## Medical Terminology

**2 semesters/1 credit/ 1 period** **(Course Level 1)**

**Grade Placement**: 9-10

**Prerequisite:** Biology.

This is a beginning course designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, combining forms, and singular and plural forms, plus medical abbreviations and acronyms. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology. It is important in the Health Science field for students to be able to break apart a word and understand its meaning. This knowledge and skill is applied during further education and employment. Recommended for students planning to follow the Pharmacy Technician track.

## Health Science Theory

**2 semesters/1 credit/ 1 period** **(Course Level 2)**

**Grade Placement**: 10-11

**Prerequisite:** None.
**Certifications offered in this course.**

This course includes, but it is not limited to changes in structure and function due to trauma and disease. Students will perform diverse simulated tasks used in the health care setting. These will be done in our Health Science Lab.

## Anatomy & Physiology

**2 semesters/1 credit/ 1 period** **(Course Level 3)**

**Grade Placement**: 11-12

**Prerequisite:** Biology or Biology Pre-AP, Chemistry or Chemistry Pre-AP.

Anatomy and Physiology is a study of the human systems and is geared to meet the needs of students interested in a career in the medical field. This lab-oriented course is designed to demonstrate safe practices using biological equipment and chemicals as well as safe dissecting techniques. Students will participate fully in labs and use safe procedures in handling dissection specimens, recognize and identify organs on models and on dissected specimens. Students will describe the function of each body system and identify disorders of homeostasis of a particular system. On a weekly basis, students will analyze advanced medical concerns by using multimedia resources.

## Practicum in Health Science – EKG/Phlebotomy (*Weighted*)

**2 semesters/2 credits/ 2 periods** **(Course Level 4)**

**Grade Placement**: 12

**Prerequisite:** Health Science Theory and Biology.
**Certifications offered in this course.**

The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

# HEALTHCARE THERAPEUTICS *DENTAL ASSISTANT*


**Certifications Offered:** HeartSaver CPR First Aid, Dental Assistant License

## Introduction to Dental Science

**2 semesters/1 credit/ 1 period** **(Course Level 1)**

**Grade Placement**: 9-10

**Prerequisite:** None.

Introduction to Dental Science is an introductory health science course designed to initiate secondary students to the field of dentistry and related topics. At the end of the course, students will be able to discuss the history of dentistry; identify dental related career pathways; explain dental legal and ethical responsibilities; recognize professional healthcare behavior and demeanor; and perform basic routine dental office procedures. The purpose of this course is to establish a foundation for future coursework in dental science and prepare secondary students for a future career in dentistry.

## Health Science Theory

**2 semesters/1 credit/ 1 period** **(Course Level 2)**

**Grade Placement**: 10-11

**Prerequisite:** None.

**Certifications offered in this course.**

This course includes, but it is not limited to changes in structure and function due to trauma and disease. Students will perform diverse simulated tasks used in the health care setting. These will be done in our Health Science Lab.

## Anatomy & Physiology

**2 semesters/1 credit/ 1 period** **(Course Level 3)**

**Grade Placement**: 11-12

**Prerequisite:** Biology or Biology Pre-AP, Chemistry or Chemistry Pre-AP.

Anatomy and Physiology is a study of the human systems and is geared to meet the needs of students interested in a career in the medical field. This lab-oriented course is designed to demonstrate safe practices using biological equipment and chemicals as well as safe dissecting techniques. Students will participate fully in labs and use safe procedures in handling dissection specimens, recognize and identify organs on models and on dissected specimens. Students will describe the function of each body system and identify disorders of homeostasis of a particular system. On a weekly basis, students will analyze advanced medical concerns by using multimedia resources.

## Practicum in Health Science – Dental Assistant (*Weighted*)

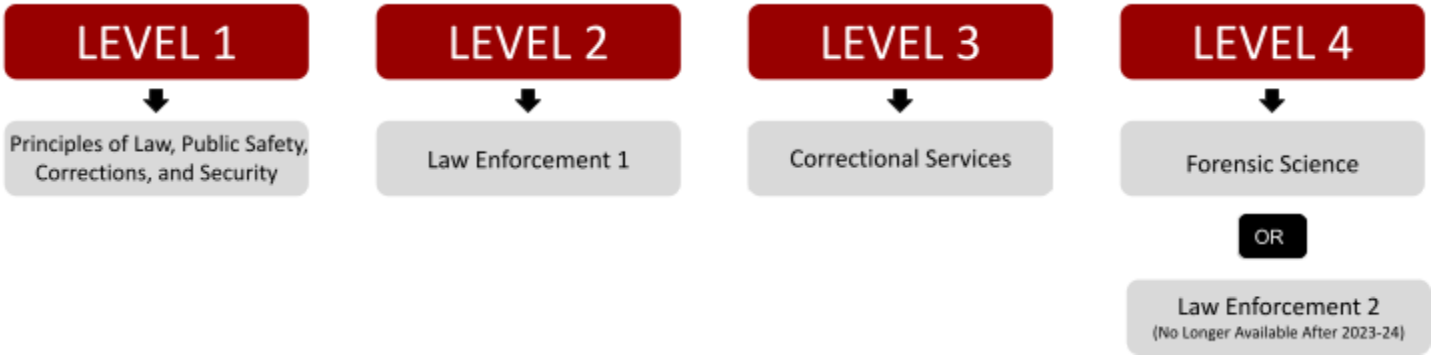
**2 semesters/2 credits/ 2 periods** **(Course Level 4)**

**Grade Placement**: 12

**Prerequisite:** Health Science Theory and Biology.
**Certifications offered in this course.**

The Dental Science externship is designed to give the student a hands-on experience in the dental office as well as to teach specific skills that are necessary both professionally and personally. This practicum is designed to give students practical application of previously studied knowledge and skills. Programs will offer students expanded occupational opportunities in specialized areas. . **Testing and additional immunizations may be required by the cooperating health care facility or training stations. Students must be a graduating senior to apply for state registration. Students may be required to provide their own transportation.**

# LAW ENFORCEMENT




**Certifications Offered:** HeartSaver CPR First Aid, Dental Assistant License

## Principles of Law, Public Safety, Corrections, and Security

**2 semesters/1 credit/ 1 period** **(Course Level 1)**

**Grade Placement**: 9-10

**Prerequisite:** None.

Principles of Law, Public Safety, Corrections, and Security introduces students to professions in law enforcement, protective services, corrections, firefighting, and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, fire service, protective services, and corrections.

## Law Enforcement 1

**2 semesters/1 credit/ 1 period** **(Course Level 2)**

**Grade Placement**: 10-12

**Prerequisite:** None.

Law Enforcement I is an overview of the history, organization, and functions of local, state, and federal law enforcement. Students will understand the role of constitutional law at local, state, and federal levels; the U.S. legal system; criminal law; and law enforcement terminology and the classification and elements of crime.

## Correctional Services

**2 semesters/1 credit/ 1 period** **(Course Level 3)**

**Grade Placement**: 10-12

**Prerequisite:** None.
**Certifications offered in this course.**

In Correctional Services, students prepare for certification required for employment as a municipal, county, state, or federal correctional officer. Students will learn the role and responsibilities of a county or municipal correctional officer; discuss relevant rules, regulations, and laws of municipal, county, state, or federal facilities; and discuss defensive tactics, restraint techniques, and first aid procedures as used in the municipal, county, state, or federal correctional setting. Students will analyze rehabilitation and alternatives to institutionalization for inmates.

## Law Enforcement 2

**2 semesters/1 credit/ 1 period** **(Course Level 4)**

**Grade Placement**: 10-12

**Prerequisite:** Law Enforcement 1.
**No Longer Available After 2023-2024.**

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

## Forensic Science

**2 semesters/1 credit/ 1 period** **(Course Level 4)**

**Grade Placement**: 10-12

**Prerequisite:** Biology and Chemistry; Must follow Law Enforcement Pathway.

Forensic Science is a course that introduces students to the application of science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Students will learn terminology and procedures related to the search and examination of physical evidence in criminal cases as they are performed in a typical crime laboratory. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, and cartridge cases. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science and understand that scientific methods of investigation can be experimental, descriptive, or comparative. Can count as a science course.

# STEM ENDORSEMENT PATHWAYS

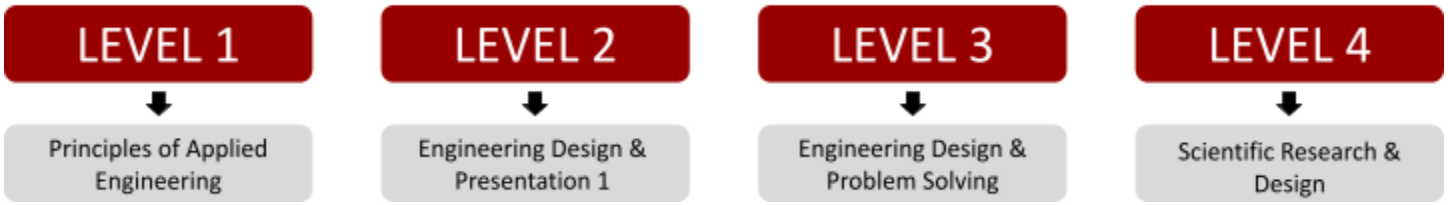
| | |
|---|---|
| **Science, Technology, Engineering & Mathematics (STEM)**<br><br>Includes courses directly related to: Science; Technology; Engineering; and Advanced Mathematics. | **CURRICULUM REQUIREMENTS**<br>*Below is a comprehensive listing of options made available by the State; however, not all options are available in TMISD*<br><br>Students must complete Algebra II, Chemistry, Physics, and one of the following options for the STEM Endorsement:<br>A. A coherent sequence of courses for four or more credits in career and technical education (CTE) that consists of at least two courses in the same career cluster, including at least one advanced CTE course. The final course in the sequence must be obtained from one of the following CTE career clusters:<br>(i) STEM; or<br>(ii) Stem-related Career Preparation I or II; or<br>B. Courses required to complete a TEA-designated program of study related to STEM; or<br>C. Three credits in mathematics by successfully completing Algebra II and two additional mathematics credits for which Algebra II is a prerequisite; or<br>D. Four credits in science by successfully completing chemistry, physics, and two additional science credits by selecting courses; or<br>E. A coherent sequence of three additional credits from no more than two of the categories or disciplines represented by subparagraphs (A), (B), (C), and (D) of this paragraph. |

**STEM REQUIRED COURSES**

FHSP coursework, 4th Math credit, 4th Science credit, (including Algebra 2, Chemistry, & Physics), plus one of the following pathways below:

| CTE<br><br>4 credits in the STEM Career Cluster, including at least one advanced STEM CTE credit | Math<br><br>5 credits in Math, including Algebra 1, Geometry, Algebra 2, and two credits for which Algebra 2 is a prerequisite | Science<br><br>5 credits in Science, including Biology, Chemistry, Physics, and two additional science credits | STEM Combo<br><br>3 credits from no more than two of the STEM pathways |
|---|---|---|---|
| 1st CTE credit | Algebra 1 | Biology | 1st Combo Credit |
| 2nd CTE credit | Geometry | Chemistry | 2nd Combo Credit |
| 3rd CTE credit | Algebra 2 | Physics | 3rd Combo Credit |
| 4th CTE credit | 4th Math Credit | 4th Science Credit | |
| | 5th Math Credit | 5th Science Credit | |

# ENGINEERING




**Certifications Offered:** Autodesk Certified User – Inventor; OSHA 30 HR General Industry; FAA Part 107 Drone Pilot License

## Principles of Applied Engineering

**2 semesters/1 credit/ 1 period** **(Course Level 1)**

**Grade Placement**: 9-10

**Prerequisite:** None.
**Certifications offered in this course.**

Principles of Applied Engineering provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will use AutoCAD and Inventor to design mechanical parts and assemblies. Upon completing this course, students will understand the various Engineering fields and be able to read mechanical blue prints and design mechanical parts. This course will give them an insight into which engineering field they might want to pursue.

## Engineering Design and Problem Solving *(Weighted)*

**2 semesters/1 credit/ 1 period** **(Course Level 3)**

**Grade Placement**: 11-12

**Prerequisite:** Algebra 1 and Geometry.
**Certifications offered in this course.**

The Engineering Design and Problem-Solving course is the creative process of solving problems by identifying needs and then devising solutions. The solution may be a product, technique, structure, or process depending on the problem. Science aims to understand the natural world, while engineering seeks to shape this world to meet human needs and wants. Various engineering disciplines address a broad spectrum of design problems using specific concepts from the sciences and mathematics to derive a solution. **Students must meet the 40% laboratory and fieldwork requirement. Counts as a 4th Level Science Credit**

## Engineering Design and Presentation I

**2 semesters/1 credit/ 1 period** **(Course Level 2)**

**Grade Placement**: 10-11

**Prerequisite:** Algebra 1.
**Certifications offered in this course.**

Students enrolled in this course will demonstrate knowledge and skills of the design process as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students will transfer advanced academic skills to component designs.

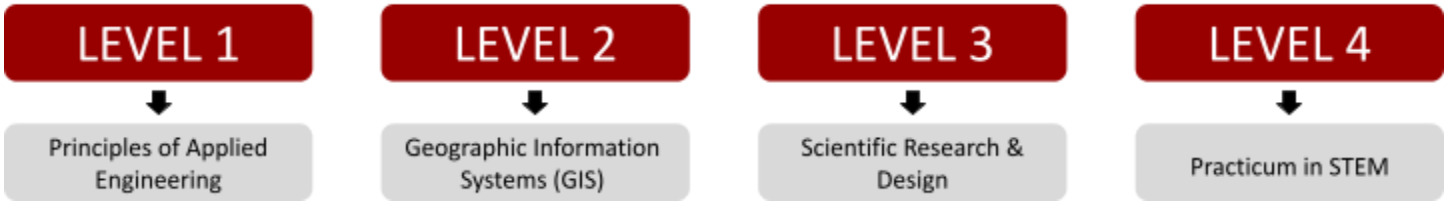
## Scientific Research and Design (*Weighted*)

**2 semesters/1 credit/ 1 period** **(Course Level 4)**
**Grade Placement**: 10-12

**Prerequisite:** Biology, Chemistry, & Physics.
**Certifications offered in this course.**

The course has the components of any rigorous scientific or engineering program of study from the problem identification, investigation design, data collection, data analysis, formulation, and presentation of the conclusions. These components are integrated with the career and technical education emphasis of helping students gain entry-level employment in high-skill, high-wage jobs and/or continue their education. **Students must meet the 40% laboratory and fieldwork requirement. Counts as 4th Science Credit.**

# GEOSPATIAL ENGINEERING & LAND SURVEYING




**Certifications Offered:** ESRI ArcGIS Desktop Entry; OSHA 30 HR General Industry; FAA Part 107 Drone Pilot License

## Principles of Applied Engineering

**2 semesters/1 credit/ 1 period** **(Course Level 1)**

**Grade Placement**: 9-10

**Prerequisite:** None.
**Certifications offered in this course.**

Principles of Applied Engineering provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will use AutoCAD and Inventor to design mechanical parts and assemblies. Upon completing this course, students will understand the various Engineering fields and be able to read mechanical blue prints and design mechanical parts. This course will give them an insight into which engineering field they might want to pursue.

## Geographic Information Systems (GIS)

**2 semesters/1 credit/ 1 period** **(Course Level 2)**

**Grade Placement**: 10-11

**Prerequisite:** Algebra 1.
**Certifications offered in this course.**

Students enrolled in this course will demonstrate knowledge and skills of the design process as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students will transfer advanced academic skills to component designs.

## Scientific Research and Design (*Weighted*)

**2 semesters/1 credit/ 1 period** **(Course Level 4)**
**Grade Placement**: 10-12

**Prerequisite:** Biology, Chemistry, & Physics (can be taken concurrently).
**Certifications offered in this course.**

The course has the components of any rigorous scientific or engineering program of study from the problem identification, investigation design, data collection, data analysis, formulation, and presentation of the conclusions. These components are integrated with the career and technical education emphasis of helping students gain entry-level employment in high-skill, high-wage jobs and/or continue their education. **Students must meet the 40% laboratory and fieldwork requirement. Counts as 4th Science Credit.**

## Practicum in STEM (*Weighted*)

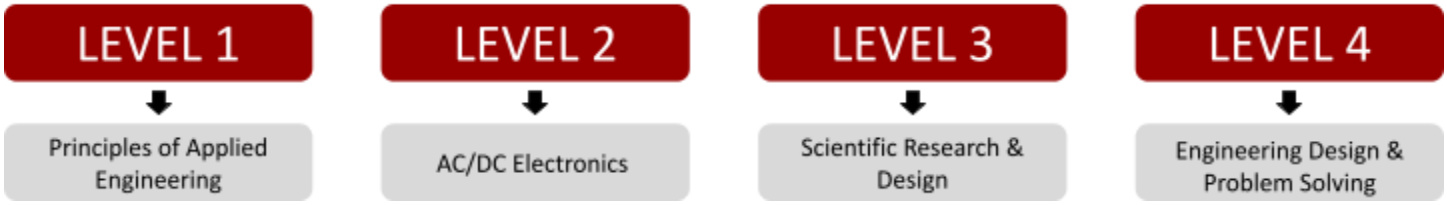
**2 semesters/2 credits/ 2 periods** **(Course Level 4)**

**Grade Placement**: 12

**Prerequisite:** Algebra 1, Geometry. Must follow a STEM pathway.
**Certifications offered in this course.**

Practicum in STEM is designed to give students supervised practical application of previously studied knowledge and skills.

# RENEWABLE ENERGY




**Certifications Offered:** Autodesk Certified User – Inventor; OSHA 30 HR General Industry; FAA Part 107 Drone Pilot License

## Principles of Applied Engineering

**2 semesters/1 credit/ 1 period** **(Course Level 1)**

**Grade Placement**: 9-10

**Prerequisite:** None.
**Certifications offered in this course.**

Principles of Applied Engineering provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will use AutoCAD and Inventor to design mechanical parts and assemblies. Upon completing this course, students will understand the various Engineering fields and be able to read mechanical blue prints and design mechanical parts. This course will give them an insight into which engineering field they might want to pursue.

## AC/DC Electronics

**2 semesters/1 credit/ 1 period** **(Course Level 2)**

**Grade Placement**: 10-11

**Prerequisite:** None..
**Certifications offered in this course.**

AC/DC Electronics focuses on the basic electricity principles of alternating current/direct current (AC/DC) circuits. Students will demonstrate knowledge and applications of circuits, electronic measurement, and electronic implementation. Through use of the design process, students will transfer academic skills to component designs in a project-based environment. Students will use a variety of computer hardware and software applications to complete assignments and projects. Additionally, students will explore career opportunities, employer expectations, and educational needs in the electronics industry.

## Scientific Research and Design (*Weighted*)

**2 semesters/1 credit/ 1 period** **(Course Level 4)**
**Grade Placement**: 10-12

**Prerequisite:** Biology, Chemistry, & Physics (can be taken concurrently).
**Certifications offered in this course.**

The course has the components of any rigorous scientific or engineering program of study from the problem identification, investigation design, data collection, data analysis, formulation, and presentation of the conclusions. These components are integrated with the career and technical education emphasis of helping students gain entry-level employment in high-skill, high-wage jobs and/or continue their education. **Students must meet the 40% laboratory and fieldwork requirement. Counts as 4th Science Credit.**

## Engineering Design and Problem Solving *(Weighted)*

**2 semesters/1 credit/ 1 period** **(Course Level 3)**

**Grade Placement**: 11-12

**Prerequisite:** Algebra 1 and Geometry.
**Certifications offered in this course.**

The Engineering Design and Problem-Solving course is the creative process of solving problems by identifying needs and then devising solutions. The solution may be a product, technique, structure, or process depending on the problem. Science aims to understand the natural world, while engineering seeks to shape this world to meet human needs and wants. Various engineering disciplines address a broad spectrum of design problems using specific concepts from the sciences and mathematics to derive a solution. Students must meet the 40% laboratory and fieldwork requirement. **Counts as a 4th Level Science.**

# ARTS & HUMANITIES ENDORSEMENT PATHWAYS

## Arts & Humanities

Includes courses directly related to: Political Science; World Languages & Cultures; Cultural Studies; English Literature; History; Fine Arts.

**CURRICULUM REQUIREMENTS**

*Below is a comprehensive listing of options made available by the State; however, not all options are available in TMISD.*

A student pursuing an Arts & Humanities Endorsement who has the written permission of the student's parent may substitute the fourth science credit with an elective credit selected from English Language Arts, Social Studies, World Languages & Cultures, or Fine Arts. Students must complete one of the following options for the Arts & Humanities Endorsement:

A. Five social studies credits by selecting courses; or
B. Four levels of the same language in a language other than English; or
C. Two levels of the same language in a language other than English and two levels of a different language in a language other than English; or
D. Four levels of American Sign Language
E. A coherent sequence of four credits by selecting courses from one or two categories in Art, Dance, Music (Band, Choir, or Orchestra), or Theatre; or
F. Four English elective credits by selecting from the following:
    (i) English IV; or
    (ii) Independent Study in English; or
    (iii) Literary Genres; or
    (iv) Creative Writing; or
    (v) Research and Technical Writing; or
    (vi) Humanities; or
    (vii) Communication Applications; or
    (viii) AP English Literature and Composition; or
    (ix)* IB Language Studies A1 Higher Level.

## ARTS & HUMANITIES REQUIRED COURSES

FHSP coursework, 4th Math credit, 4th Science credit

(**A student pursuing an Arts & Humanities Endorsement who has the written permission of the student's parent or guardian may substitute the fourth science credit with an elective credit selected from English Language Arts, Social Studies, World Languages & Cultures, or Fine Arts), plus one of the following pathways below:

| **Social Studies**<br>5 credits in Social Studies | **World Languages & Cultures/ASL**<br>4 credits of the same language | **WLC 2x2**<br>*2 credits of the same language<br>&<br>**2 credits of the same language that is different from the first 2 credits* | **Fine Arts**<br>4 credits in Art, Dance, Theatre, or Music (Band, Choir, or Orchestra) | **Fine Arts Combo**<br>**(3x1 or 2x2)**<br>Combination of no more than 2 Fine Arts categories in Art, Dance, Theatre, or Music (Band, Choir, or Orchestra) | **ELA Electives**<br>4 credits in English/Language Arts |
|---|---|---|---|---|---|
| 1st Social Studies | WLC 1 | WLC 1 * | Fire Arts 1 | Fine Arts 1 | 1st ELA |
| 2nd Social Studies | WLC 2 | WLC 2 * | Fine Arts 2 | Fine Arts 2 | 2nd ELA |
| 3rd Social Studies | WLC 3 | WLC 3 ** | Fine Arts 3 | Fine Arts (3 or 1) | 3rd ELA |
| 4th Social Studies | WLC 4 | WLC 4 ** | Fine Arts 4 | Fine Arts (1 or 2) | 4th ELA |
| 5th Social Studies | | | | | |

# MULTIDISCIPLINARY ENDORSEMENT

| **Multidisciplinary Studies**<br><br>Allows a student to select courses from the curriculum of each endorsement area and earn credits in a variety of advanced courses from multiple content areas. | **CURRICULUM REQUIREMENTS**<br>*Below is a comprehensive listing of options made available by the State; however, not all options are available in TMISD*<br><br>Students must complete one of the following options for the Multidisciplinary Studies Endorsement:<br>A. Four advanced courses that prepare a student to enter the workforce successfully or postsecondary education without remediation from within one endorsement area or among endorsement areas that are not in a coherent sequence; or<br>B. Four credits in each of the four foundation subject areas to include English IV and chemistry and/or physics; or<br>C. Four credits in Advanced Placement, *International Baccalaureate, or dual credit selected from English, mathematics, science, social studies, World Languages & Cultures, or fine arts. |
|---|---|

**MULTIDISCIPLINARY REQUIRED COURSES**

FHSP coursework, 4th Math credit, 4th Science credit, (including Algebra 2, Chemistry, & Physics), plus one of the following pathways below:

| **Advanced/ Honors Credits**<br><br>*Single or multiple endorsement areas that are NOT in a coherent sequence. | **Four x Four**<br><br>4 credits in English<br>4 credits in Mathematics<br>4 credits in Science<br>4 credits in Social Studies | **Dual Enrollment**<br><br>4 credits of any combination of Dual Enrollment(DE) courses in the following subject areas: English Language Arts; Mathematics; Science; Social Studies; World Languages & Cultures; or Fine Arts |
|---|---|---|
| 1st Advanced credit | 4th English | 1st DE Credit |
| 2nd Advanced credit | 4th Mathematics | 2nd DE Credit |
| 3rd Advanced credit | 4th Science credit (in addition to Chemistry and/or Physics) | 3rd DE Credit |
| 4th Advanced credit | 4th Social Studies Credit | 4th DE Credit |