



# Miles High School

# Course Guide

## 2023-2024

**Introduction:** The Course Catalog has been developed to provide important information for students and their parents. It will assist you in making wise, informed decisions concerning programs and course choices throughout your high school years.

The Miles Independent School District Course Guide lists the courses that our high school **generally** makes available to students. However, it should be noted that not all of the courses listed are scheduled every year since it is not economically feasible to schedule classes in which only a few students enroll. All course offerings are subject to change.

**Discrimination Disclaimer:** Miles ISD does not discriminate on the basis of race, religion, color, national origin, sex or disability in providing education or providing access to benefits of education services, activities, and programs, including career and technology programs, in accordance with Title VI of the Civil Rights Act of 1964 as amended; Title IX of the Education Amendments of 1972; Section 504 of the Rehabilitation Act of 1973, as amended, and Title II of the Americans with Disabilities Act.

Current guide found online at [www.milesisd.net](http://www.milesisd.net) under Menu-Counselor's Corner-Junior High/High School.

*Questions, please call the MHS office at (325)468-2861.*

## GRADUATION CREDIT REQUIREMENTS - FOUNDATION GRADUATION PLAN

Curriculum	Foundation Program w/End	Distinguished Level of Achievement	Endorsements*
English Language Arts	4 Credits	4 Credits	A student may earn an endorsement by successfully completing curriculum requirements for endorsements adopted by the State Board of Education in the following areas: <ul style="list-style-type: none"> <li>● STEM – science, technology, engineering and mathematics</li> <li>● Multidisciplinary</li> <li>● Business and Industry</li> <li>● Arts and Humanities</li> <li>● Public Service</li> </ul>
Mathematics	4 Credits	4 Credits *must include Alg. 2	
Science	4 Credits	4 Credits	
Social Studies	3 Credits	3 Credits	
Languages other than English	2 Credits	2 Credits	
Fine Arts	1 Credit	1 Credit	
Physical Education	1 Credit	1 Credit	
Elective Credits – End. Specific	7 Credits	7 Credits	
<b>Total With Required Endorsement Credits</b>	<b>26 Credits</b>	<b>26 Credits</b>	
		<b>** Must graduate on this plan for top 10% &amp; Automatic University Admissions</b>	Endorsement courses are to be composed of qualified sequential courses that total at least 4 credits.

**\*\* Distinguished Level of Achievement:** A student MUST meet the requirements for this level of achievement to be eligible for Top 10% Automatic Admission to college. A student may earn a distinguished level of achievement by successfully completing:

- Four credits in mathematics, which MUST include Algebra II, plus;
- Four credits in science plus;
- The remaining foundation courses as required by the State Board of Education.
- The curriculum requirements for at least **one endorsement** consisting of a coherent sequence of qualified courses equaling a total 4 credits.

**\*\* Performance Acknowledgment** may also be earned by the student by completing the requirements adopted by SBOE rule. This acknowledgment can be earned for **outstanding performance in:**

- **Dual Credit Courses** – 12 hours of college academic courses, with a grade of 3.0 or better
- **Bilingualism and Biliteracy** – demonstrate proficiency in two or more languages by:
  - **(A)** Completing all English Language Arts requirements and maintaining a minimum GPA of 80 on a scale of 100; and satisfying one of the following: Completion of a minimum of three credits in the same language other than English with a minimum GPA of 80 on a scale of 100; or demonstrated proficiency of the TEKS 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 an AP examination for a language other than English; or \* A score of 4 or higher on an International Baccalaureate examination for a higher-level language 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.
  - **(B)** In addition to meeting the requirements of **(A)**, to earn a performance acknowledgment in bilingualism and biliteracy, an English language learner must also have: Participated in and met the exit criteria for a bilingual or ESL program; *and* Scored Advanced High level on TELPAS.
- **AP** – earn a score of 3 or above on an AP test
- **PSAT, SAT, or ACT** – outstanding performance by:
  1. A score on the Preliminary SAT/National Merit Scholarship Qualifying Test (PSAT/NMSQT) that qualifies the student for recognition as a commended scholar or higher by the College Board and National Merit Scholarship Corporation, as part of the National Hispanic Recognition Program (NHRP) of the College Board or as part of the National Achievement Scholarship Program of the National Merit Scholarship Corporation.
  2. A combined critical reading and mathematics score of at least 1250 on the SAT.
  3. A composite score on the ACT exam (without writing) of 28.
- **Earning a nationally or internationally recognized business or industry certification or license with:** Performance on an examination or series of examinations sufficient to obtain nationally or internationally recognized business or industry certification; or Performance on an examination sufficient to obtain a government-required credential to practice a profession.

# MHS ENDORSEMENTS

<b>STEM</b> <i>Science, Technology, Engineering, &amp; Math</i>	<b>Business &amp; Industry</b>	<b>Public Services</b>	<b>Arts &amp; Humanities</b>	<b>Multidisciplinary Studies</b>
<p>Students may earn a STEM endorsement by selecting and completing the requirements from among these <u>3</u> options.</p> <p><b>Note:</b> Algebra II, Chemistry, and Physics are required for the STEM endorsement <u>regardless</u> of the option the student selects from below.</p> <p><b>Option 1: Math</b> Students take Algebra I, Geometry, and Algebra II AND two (2) of the following courses for which Algebra II is a prerequisite.</p> <ul style="list-style-type: none"> <li>● Pre-Calculus</li> <li>● Calculus</li> <li>● College Algebra</li> </ul> <p><b>Option 2: Science</b> Students take Biology, Chemistry, and Physics, AND two (2) of the following courses.</p> <ul style="list-style-type: none"> <li>● Anatomy &amp; Physiology</li> <li>● Astronomy</li> <li>● Environmental Systems</li> <li>● Forensic Science</li> <li>● Advanced Animal Science</li> </ul> <p><b>Option 3: CTE</b> Students earn four (4) credits by taking at least two (2) courses in the same cluster</p> <ul style="list-style-type: none"> <li>● Principles of Applied Engineering</li> <li>● Robotics I</li> <li>● Robotics II</li> <li>● Digital Electronics</li> <li>● Principles of Technology</li> <li>● Engineering Math, Engineering Problem Solving or Stem Practicum</li> </ul> <p>With at least one (1) advanced (3<sup>rd</sup> year or higher course in the sequence).</p>	<p>Students may earn a Business &amp; Industry endorsement by selecting and completing these requirements.</p> <p><b>Option 1: CTE</b> Students earn four (4) credits by taking at least two (2) courses in the same cluster in one of the following areas with at least one (1) advanced (3<sup>rd</sup> year or higher course in the sequence).</p> <ul style="list-style-type: none"> <li>● Agriculture, Food, and Natural Resources <i>Animal Science</i> <i>Applied Ag Engineering</i> <i>Food Science and Technology</i> <i>Plant Science</i></li> <li>● Arts, Audio/Video Technology, and Communication <i>Design and Multimedia</i> <i>Digital Electronics</i></li> <li>● Finance <i>Accounting and Financial Services</i> <i>Entrepreneurship</i> <i>Marketing and Sales</i></li> <li>● Hospitality and Tourism <i>Culinary Arts</i></li> </ul> <p>With at least one (1) advanced (3<sup>rd</sup> year or higher course in the sequence).</p>	<p>Students may earn a Public Services endorsement by selecting and completing these requirements</p> <p><b>Option 1: CTE</b> Students earn four (4) credits by taking at least two (2) courses in the same career cluster in the following areas:</p> <ul style="list-style-type: none"> <li>● Health Science <i>Exercise Science and Wellness</i> <i>Healthcare Diagnostics</i> <i>Nursing Science</i></li> <li>● Education and Training <i>Teaching and Training</i></li> <li>● Law, Public Safety, Corrections and Security <i>Law Enforcement</i></li> </ul> <p>With at least one (1) advanced (3<sup>rd</sup> year or higher course in the sequence).</p>	<p>Students may earn an Arts &amp; Humanities endorsement by selecting and completing the requirements from among these <u>2</u> options.</p> <p><b>Option 1: Foreign Language</b> Students take four (4) levels of the same foreign language.</p> <p style="text-align: center;"><u>OR</u></p> <p>Students take two (2) levels of one foreign language AND two (2) levels of a different foreign language (two levels in each of two different foreign languages for 4 credits).</p> <p><b>Option 2: Fine Arts</b> Students take four (4) courses in the same fine arts area for 4 credits</p> <p style="text-align: center;"><u>OR</u></p> <p>Students take two (2) courses in one fine arts area AND two (2) courses in a different fine arts area (two courses in each of two different fine arts areas for 4 credits).</p>	<p>Students may earn a Multidisciplinary Studies endorsement by selecting and completing the requirements from among these <u>3</u> options.</p> <p><b>Option 1: Four by Four (4 X 4)</b> Students take four (4) courses in each of the four core content areas.</p> <ul style="list-style-type: none"> <li>● Four (4) English credits including English IV</li> <li>● Four (4) math credit</li> <li>● Four (4) science credits including biology and chemistry and/or physics</li> <li>● Four (4) social studies credits</li> </ul> <p><b>Option 2: Dual Credit</b> Students take four (4) Dual credit courses for four (4) credits in English, math, science, social studies, foreign language, or fine arts.</p> <p><b>Option 3: CTE</b> Students take four advanced courses for four (4) credits that prepare them to enter the workforce or postsecondary education without remediation from within one endorsement area or among endorsement areas not in a coherent sequence.</p>

# ACADEMIC & GENERAL INFORMATION

## GRADING SYSTEM FOR GRADES 9-12:

MHS uses a weighted numerical grading system. In calculating GPA, a designated percentage is added to a student's semester average in any course designated as an "Enriched (5%)" or "Honors(10%)" course as listed in the table on the following page. Advanced courses include Dual Credit Courses, and any course designated with a \* or \*\* in the course description guide. All other courses are considered Basic courses, and do not receive the extra points. Please be aware:

- The District shall record unweighted numerical grades on student transcripts.
- Local credits, like PE/Athletic courses, are not included in a student's GPA.
- When a student transfers credits from another district only courses MHS offers will be calculated in their GPA.

**Example:** Dual Credit English, Dual Credit Government, Anatomy & Physiology

<u>Course</u>	<u>Semester Grade</u>
Dual Credit Eng -	92 (+10%/9.2) = 101.2
Dual Credit Gov -	84 (+10%/8.4) = 92.4
Algebra 2 -	90 (+0) = 90
Anat & Phys -	98 (+10%/9.8) = 107.8
Band -	95 (+0) = 95
Study Hall -	100 (Doesn't count in GPA)
Athletics -	97 (Doesn't count in GPA)
Ag Fabrication	92 (+0) = 92

578.4 divided by 6 (because Athletics nor Study Hall is included) = 96.4

## Honors Course Information:

The goal of the Miles High School Honors courses is to more fully develop our students for post-secondary education. Beginning in the 2021-2022 school year, incoming 9th grade students must have an 85 or higher cumulative average in their respective 8th grade subject and make meets or masters on STAAR to be allowed to take Honors. Upon student/parent request in writing, a committee can meet to determine if students with an average of less than 85 can be enrolled to honors or may retest.

### The honors courses will be designed to:

1. Be taught at a faster pace.
2. Curriculum covered in greater depth.
3. The addition of ACT/SAT practice problems in the curriculum.
4. The use of portfolio projects in addition to the normal classroom assignments.
5. Summer assignments that may include reading, research or project/portfolio completion.

## Honors courses requirements must be met in order to continue in the honors program:

1. Students must maintain a minimum grade average of 75 each six weeks in all honors courses.
2. If a student falls below a 75 average in any six weeks, he or she will be placed on honors probation for the remainder of the school year in that course.
3. If a student falls below a 75 average in any six weeks a second time, he or she will be removed from the honors class and rescheduled into the corresponding standard class.
4. If a student has been removed from an honors class but maintains a final year end average of 85 or better in the corresponding standard class, he or she may move back into the corresponding core subject honors class the next school year.
5. If a student has extreme extenuating circumstances such as a death in the immediate family, prolonged sickness, hospitalization, etcetera and falls below a 75 average in any six weeks, the teacher in charge of the honors course can assign an extra credit assignment for the student to earn an average not to exceed 80 during that six week grading period. The assignment and timeline for completion is at the discretion of the teacher.

REGULAR		ENRICHED-5%	HONORS-10%
Art 1,2,3,4 Algebra 1,2 *Athletics Band Biology CTE Courses (Ag/BIM/Digital/FCS) Economics/Free Enterprise English 1,2,3,4 ESOL 1,2; ESL Vocab Development Geometry Government Guitar Integrated Physics & Chemistry	Kinesiology Practical Writing Professional Communications Spanish 1,2 Theatre Arts 1,2,3,4 U.S. History World Geography World History *Edgenuity Courses *Physical Education *Reading I	Animal Science Chemistry Food Science Forensic Science	Honors Courses Anatomy & Physiology Physics Pre-Calculus College Courses: Dual Credit/Concurrent Enrollment

\*Denotes courses excluded for class rank and National Honor Society.

**Below are general guides that apply to most MHS students.**

*Please have 2 ADDITIONAL options available for elective courses in case your 1st choices do not fit in your schedule.*

Classes	9th Grade
1	English I or Eng I Honors
2	Algebra I or Algebra I Honors
3	Biology
4	World History or World Geography on alt. years
5	Spanish II
6	PE/Athletics
7	Fine Arts Choose one: Art, Band, Digital Art, or Guitar
8	CTE Course Choose one: Ag, A/V Technology, BIM, or Hospitality

Classes	11th Grade
1	English III or Eng III Honors
2	Algebra II or Algebra II Honors
3	Chemistry and/or Adv. Sci.
4	US History or US History DC 1301/1302
5	Spanish or Elective
6	Athletics or Elective
7	Elective or Dual Credit
8	Elective or Dual Credit

\*Dual Credit: Max 6 hours per semester for 11th grade.

Classes	10th Grade
1	English II or Eng II Honors
2	Geometry or Geometry Honors
3	IPC or Chemistry
4	World History or World Geography on alt. years
5	Spanish or Elective
6	Athletics or Elective
7	Elective
8	Elective

Classes	12th Grade
1	English IV or Eng IV DC 1301/1302
2	PreCal or ColPrepMath/Fin Lit or Col.Alg DC
3	Science: Choose one adv. science
4	Govt/Eco or Govt DC POLS 2305/2306
5	Elective or IF Govt DC then FinLit/Eco
6	Athletics or Elective
7	Elective or Dual Credit
8	Elective

\*Dual Credit: Max 9 hours per semester for 12th grade.

# Foundation Coursework

## **ENGLISH LANGUAGE ARTS** (4 credits required)

### **English I - 1010**

**TSDS PEIMS Code: 03220100 (ENG I)**

**Grade Placement: 9, Credits: 1**

**Prerequisite: None**

Students practice all forms of writing in this course. An emphasis is placed on organizing logical arguments with clearly expressed related definitions, thesis, and evidence. Students write to persuade, to report and to describe. English I students read extensively in multiple genres from world literature such as reading selected stories, dramas, novels, and poetry originally written in English or translated to English from oriental, classical Greek, European, African, South American, and North American cultures. Students interpret the possible influences of the historical context on a literary work.

### **\*\*English I Honors - 1012**

**TSDS PEIMS Code: 03220100 (ENG I)**

**Grade Placement: 9, Credits: 1**

**Prerequisite: An 85+ cumulative average and meets or masters on 8<sup>th</sup> grade Reading**

This course prepares students for work in the honors program by providing in-depth studies of literary units by genre, including poetry, drama, nonfiction, short stories, research, and novels. Students will engage in critical reading and will write in a variety of forms, with special emphasis on literary units by genre, including poetry, drama, nonfiction, short stories, research, and novels.

### **English II - 1015**

**TSDS PEIMS Code: 03220200 (ENG II)**

**Grade: 10, Credit 1.0**

**Prerequisite: English I**

Students practice all forms of writing in this course. An emphasis is placed on persuasive forms of writing such as logical arguments, expressions of opinion, and personal forms of writing. These personal forms of writing may include a response to literature, a reflective essay, or an autobiographical narrative. English II students read extensively in multiple genres from world literature such as reading selected stories, dramas, novels, and poetry originally written in English or translated to English from oriental, classical Greek, European, African, South American, and North American cultures. Students learn literary forms and terms associated with selections being read. Students interpret the possible influences of the historical context on a literary work.

### **\*\*English II Honors - 1020**

**TSDS PEIMS Code: 03220200 (ENG II)**

**Grade: 10, Credit 1.0**

**Prerequisite: English I H or 85+ cumulative average in English I.**

This course prepares students for work in the honors program by providing in-depth studies of thematic literary units that combine poetry, drama, nonfiction, short stories, research, and novels. Students will engage in critical reading and will write in a variety of forms, with special emphasis on literary analysis and persuasive essays.

### **English III - 1025**

**TSDS PEIMS Code: 03220300 (ENG III)**

**Grade: 11, Credit 1.0**

**Prerequisite: English II**

Students practice all forms of writing in this course. An emphasis is placed on business forms of writing such as the report, the business memo, the narrative of a procedure, the summary or abstract, and the resume. English III students read extensively in multiple genres from American literature and other world literature. Periods from American literature may include the pre-colonial period, colonial and revolutionary periods, romanticism and idealism, realism and naturalism, early 20th century, and late 20th century. Students learn literary forms and terms associated with selections being read. Students interpret the possible influences of the historical context on a literary work.

**\*\*English III Honors- 1027**

**Grade: 11, Credit 1.0**

**Prerequisite: English II H or 85+ cumulative average in English II.**

This course prepares students for work in the honors program by providing in-depth studies of multiple genres from American literature and other world literature. English III Honors students will be expected to read extensively from all periods of American literature including the pre-colonial period, colonial and revolutionary periods, romanticism and idealism, realism and naturalism, early 20th century, and late 20th century. Students will engage in critical reading and will write in a variety of forms, with special emphasis on business forms of writing such as the report, the business memo, the narrative of a procedure, the summary or abstract, and the resume.

**Eng IV- 1035**

**TSDS PEIMS Code: 03220400**

**Grade: 12, Credit 1.0**

**Prerequisite: English III**

English IV provides an overview of British and World literature with an emphasis on recurring themes. Writing assignments focus on literary analysis, personal narrative, and exposition. Vocabulary study and grammar review are incorporated into the reading and writing assignments.

**College Readiness English - 1038 (imbedded into English IV class)**

**TSDS PEIMS Code: CP110100**

**Grade: 12, Credit 1.0**

**Prerequisite: English III** College Preparatory English exists to remediate deficiencies in order that students may excel in their chosen careers. College Prep courses are designed to prepare students for college-level academic course work. The recommendation to enroll in College Prep courses is made on the basis of diagnostic testing. Although these courses do not satisfy any college degree requirement, they are designed to assure reasonable student success in the college curriculum.

**\*\*English IV DC- 1041/1042**

**Grade: 12, Credit 1.0**

**Prerequisite: English III; college entrance requirements**

**ENGL 1301 Composition and Rhetoric I (3 hours college) - 1031 TSDS PEIMS Code: 03220400 (ENG 4A)**

**ENGL 1302 Composition and Rhetoric II (3 hours college) - 1033 TSDS PEIMS Code: 03220400 (ENG 4B)**

This course provides the opportunity for students to receive both high school and college Credit: at the same time. Students who enter this course must meet the enrollment criteria of HOWARD COLLEGE and must pay their tuition at HOWARD COLLEGE for three hours of college Credit: each semester. Grades will be recorded both at Miles High School and at HOWARD COLLEGE and will appear on each institution's transcript. During the first semester, the course will include an intensive study of writing and reading skills, including research techniques. The second semester content will emphasize reading, critical thinking, research skills, and writing about various genres of literature. *This course will be taught on the high school campus in an online format.*

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**FINE ARTS (1 credit required)**

**Art I - 5105**

**TSDS PEIMS Code: 03500100 (ART1)**

**Grade Placement: 9-12, Credit: 1.0**

**Prerequisite: None**

This course covers four basic strands in the field of fine arts: perception, creative expression/performance, historical and cultural heritage, and critical evaluation. Students will be required to illustrate ideas for artworks through the use of different mediums from direct observations, experiences, and imagination. The course also covers an understanding and appreciation of art history and culture as records of human achievement.



**Art II - 5110****TSDS PEIMS Code: 03500500****(ART2DRAW)****Grade Placement: 9-12, Credit: 1.0****Prerequisite: Art I****Course Description \* See below.****Art III - 5115****TSDS PEIMS Code: 03501300****(ART3DRAW)****Grade Placement: 10-12, Credit: 1.0****Prerequisites: Art I & Art II****Course Description \* See below.****Art IV - 5120****TSDS PEIMS Code: 03500100****(ART4DRAW)****Grade Placement: 11-12, Credit: 1.0****Prerequisites: Art I, Art II, & Art III.****Course Description \* See below.**

\*These Art courses' objectives will continue to use the creative experience of drawing as a means of building a stronger foundation for all artwork. The four basic strands that are studied include: perception, creative expression/performance, historical and cultural heritage, and critical evaluation. Students should have a definite interest in art as they will expound on their Art I experiences and objectives. Student projects will stimulate students' natural curiosity as well as their ability, self-motivation, and aesthetics.

**Digital Design & Media Production - 7020 (offered 2024-2025)****TSDS PEIMS Code: 03580400****Grade: 9-12, Credit 1.0****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.

**Digital Art & Animation - 7025 (offered 2023-2024)****TSDS PEIMS Code: 03580500****Grade: 9-12, Credit 1.0****Prerequisite: None**

Digital Art and Animation consists of computer images and animations created with digital imaging software. 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, and the magazine, television, film, and game industries. Students in this course will produce various real-world projects and animations. 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.

**Band I - 5010****TSDS PEIMS Code: 03150100****Grade: 9-12, Credit 1.0****Prerequisite: None**

In level I music courses, students will compare and contrast elements of music through literature selected for performance and/or listening. They will further their study by performing expressively, from memory and notation, a vivid repertoire of music representing styles from diverse cultures. Students will be given the opportunity to sight-read ensemble parts, to create a variety of musical phrases, and to listen to and classify music by style and/or by historical period. Students will be expected to design and apply criteria for making informed judgments regarding the quality and effectiveness of musical performances.

**Band II - 5015****TSDS PEIMS Code: 03150200****Grade Placement: 10-12, Credit: 1.0****Prerequisite: Band 1****Course Description \* See below.****Band III - 5020****TSDS PEIMS Code: 03150300****Grade Placement: 11-12, Credit: 1.0****Prerequisites: Band I & II****Course Description \* See below.****Band IV - 5025****TSDS PEIMS Code: 03150400****Grade Placement: 12, Credit: 1.0****Prerequisites: Band I, II, and III****Course Description \* See below.**

\*These Band II-IV course objectives will be to extend the level I goals.

**Guitar I - 5130****TSDS PEIMS Code: 03154600****Grade: 9-12, Credit 1.0****Prerequisite: None**

In level I music courses, students will compare and contrast elements of music through literature selected for performance and/or listening. They will further their study by performing expressively, from memory and notation, a vivid repertoire of music representing styles from diverse cultures. Students will be given the opportunity to sight-read ensemble parts, to create a variety of musical phrases, and to listen to and classify music by style and/or by historical period. Students will be expected to design and apply criteria for making informed judgments regarding the quality and effectiveness of musical performances.

**Guitar II - 5135****TSDS PEIMS Code: 03154700****Grade Placement: 10-12, Credit: 1.0****Prerequisite: Guitar I****Course Description \* See below.****Guitar III - 5140****TSDS PEIMS Code: 03154800****Grade Placement: 11-12, Credit: 1.0****Prerequisites: Guitar I & II****Course Description \* See below.****Guitar IV - 5145****TSDS PEIMS Code: 03154900****Grade Placement: 12, Credit: 1.0****Prerequisites: Guitar I, II, and III****Course Description \* See below.**

\*These Guitar II-IV course objectives will be to extend the level I goals.

**Music Appreciation DC - 5150****TSDS PEIMS Code: 03155600****MUSI 1306 (3 hours college)****Grade: 12, Credit 0.5****Prerequisite: college entrance requirements**

This course provides the opportunity for students to receive both high school and college Credit: at the same time. Students who enter this course must meet the enrollment criteria of HOWARD COLLEGE and must pay their tuition at HOWARD COLLEGE for three hours of college Credit. Grades will be recorded both at Miles High School and at HOWARD COLLEGE and will appear on each institution's transcript. *This course will be taught on the high school campus in an online format.*

## **LANGUAGES OTHER THAN ENGLISH (2 credits required)**

**Spanish I & Spanish II**

In levels I and II courses (novice levels), students will demonstrate an understanding of simple, clearly spoken, and written language. Students will develop an understanding of the practices and perspectives of the cultures studied; use the language to obtain, reinforce, or expand knowledge of other subject areas; demonstrate an understanding of the influence of language and culture on another; and use the language both within and beyond the school setting through activities such as participating in cultural events and using technology to communicate.

**Level I courses - 1095 TSDS PEIMS Code: 03440100****Grade: 8-12, Credit 1.0****Prerequisite: None****Level II courses - 1100 TSDS PEIMS Code: 03440200****Grade: 9-12, Credit 1.0****Prerequisite: Level 1 course**

# **MATHEMATICS** (4 credits required)

## **Algebra I - 2015**

**TSDS PEIMS Code: 03100500 (ALG I)**

**Grade Placement: 9, Credit 1.0**

**Prerequisite: None**

Algebra I provides the foundation concepts for high school mathematics. Students will be introduced to algebraic thinking and will use symbols to study relationships among quantities. They will be introduced to the relationship between equations and functions and will receive the tools for algebraic thinking as well as the training to use technology to model mathematical situations to solve meaningful problems. Foundations will be laid for all functions, with emphasis on linear and quadratic. Students will also be prepared for the math STAAR EOC.

## **\*\*Algebra I Honors - 2020**

**TSDS PEIMS Code: 03100500**

**Grade: 9, Credit 1.0**

**Prerequisite: An 85+ cumulative average and meets or masters in 8th grade Math.**

See Algebra I description above.

## **Geometry - 2040**

**TSDS PEIMS Code: 03100700 (GEOM)**

**Grade Placement: 10, Credit 1.0**

**Prerequisite: Algebra I**

Students will continue to build upon their math foundation as emphasized in Algebra I class. This course also covers geometric thinking, spatial reasoning, and the properties of geometric figures. Students study properties and relationships having to do with the size, shape, location, direction, and orientation of these figures. Students will use problem-solving, language and communication, connections within and outside mathematics, justification, and proof.

## **\*\*Geometry Honors - 2045**

**TSDS PEIMS Code: 03100700**

**Grade: 10, Credit 1.0**

**Prerequisite: Algebra IH or 85+ cumulative average in AlgI and meets or masters on the Algebra I EOC.**

See Geometry description above.

## **Algebra II - 2025**

**TSDS PEIMS Code: 03100600 (ALG II)**

**Grade: 11, Credit 1.0**

**Prerequisite: Algebra I and Geometry**

Algebra II allows students to continue to build on the algebraic skills of analysis of data and the foundations of Algebra I. It shows a connection between algebra and geometry and illustrates how the tools of one can be used to solve problems in the other. The course includes in-depth studies and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices.

## **\*\*Algebra II Honors - 2030**

**TSDS PEIMS Code: 03100600**

**Grade: 11, Credit 1.0**

**Prerequisite: Algebra I and Geometry H**

See Algebra II description above.

**College Readiness Math - 2053**

TSDS PEIMS Code: CP111200

Grades: 12, Credit 0.5

**Prerequisite: Algebra I, Geometry, and 3<sup>rd</sup> Math**

College Preparatory Math exists to remediate deficiencies in order that students may excel in their chosen careers. College Prep courses are designed to prepare students for college-level academic course work. The recommendation to enroll in College Prep courses is made on the basis of diagnostic testing and TSIA2. Although these courses do not satisfy any college degree requirement, they are designed to assure reasonable student success in the college curriculum. The courses do qualify for high school elective Credit.

**\*\*Pre-Calculus - 2055**

TSDS PEIMS Code: 03101100 (PRECALC)

Grade Placement: 11-12, Credits 1.0

**Prerequisite: Algebra I, Geometry, and Algebra II H (or dually enrolled with teacher approval)**

Pre-Calculus allows students to continue to build on the mathematical foundations laid in Algebra I, II, and Geometry. Students will use functions, equations, and limits as useful tools for expressing generalizations and as means for analyzing and understanding a broad variety of mathematical relationships. Students are expected to have a good working knowledge of a graphics calculator.

**\*\*MATH 1314 College Algebra (3 hours college) - 2050**

TSDS PEIMS Code: 03102500

Grade: 12, Credit 1.0 (Even though this is only a semester course, students receive 1 full Math Credit.)

**Prerequisite: Algebra I, Algebra II, Geometry; and college entrance requirements.**

This course provides the opportunity for students to receive both high school and college Credit: at the same time. Students who enter this course must meet the enrollment criteria of HOWARD COLLEGE and must pay their tuition at HOWARD COLLEGE for three hours of college Credit. Grades will be recorded both at Miles High School and at HOWARD COLLEGE and will appear on each institution's transcript. The course will include the study of graphs, functions and their inverses, polynomial and rational functions, roots of polynomial equations, exponential and logarithmic functions, linear and non-linear systems of equations and inequalities, determinants, matrices, binomial theorem, sequences and series, and permutations and combinations.

**PHYSICAL EDUCATION** *(1 credit required, 2 years marching band may count for 1 PE Credit)*

Athletics I-IV - Boys: 7th & 8th-6010, 9th-6100, 10th-6110, 11th-6120, 12th-6130 -- Girls: 7th & 8th-6000, 9th-6105, 10th-6115, 11th-6125, 12th-6135

TSDS PEIMS Code: 82931XXX - 83210XXX - PES00000 - PES00001 - PES00002 - PES00003

Grade: 9-12, Credit 1.0

**Prerequisite: None****PE LIFEFIT - 6150**

TSDS PEIMS Code: PES00051

Grades: 9-12, Credit 1.0

**Prerequisite: None**

This course represents physical education and the concept of personal fitness. The basic purpose of the course is to motivate students to strive for lifetime personal fitness with an emphasis on the health-related components of physical fitness. The concept of wellness, or striving to reach optimal levels of health, is the cornerstone of this course.

## **SCIENCE** (4 credits required)

### **Biology - 3025**

**TSDS PEIMS Code: 03010200 (BIO)**

**Grade: 9, Credit: 1.0**

In Biology, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical-thinking and scientific problem-solving. Students in Biology study a variety of topics that include 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; ecosystems; and plants and the environment.

### **Integrated Physics and Chemistry - 3015**

**TSDS PEIMS Code: 03060201 (IPC)**

**Grade: 10, Credit: 1.0**

This course is a study of the basic physical principles which govern the materials and forces around us. One semester will be devoted to chemistry, including chemical symbols, introduction to atomic energy, the periodic chart, formation of ions, and chemical reactions/equations. One semester will consist of physics- principles of measurement, motion, mechanics, light, sound, and electricity. Laboratory work is 40%.

### **\*Chemistry - 3020**

**TSDS PEIMS Code: 03040000 (CHEM)**

**Grade: 10-11, Credit 1.0**

**Prerequisite for 10th grade: Biology with an 85+ cumulative average and meets or masters on Biology EOC.**

In Chemistry, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem-solving. Students study a variety of topics that include characteristics of matter; energy transformations during physical and chemical changes; atomic structure; periodic table of elements; behavior of gases; bonding; nuclear fusion and nuclear fission; oxidation-reduction reactions; chemical equations; solutes; properties of solutions; acids and bases; and chemical reactions. Students will investigate how chemistry is an integral part of our daily lives.

### **\*\*Physics - 3040**

**TSDS PEIMS Code: 03050000**

**Grade: 11-12, Credit 1.0**

**Prerequisite: Biology**

In Principles of Technology, students will conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Various systems will be described in terms of space, time, energy, and matter. Students will study a variety of topics that include momentum, electricity, magnetism, thermodynamics, and characteristics and behaviors of waves. Students will apply physics concepts and perform laboratory experimentations for at least 40% of instructional time using safe practices. Scientific inquiry, science and social ethics and scientific systems will also be covered.

### **\*\*Anatomy and Physiology - 3035**

**TSDS PEIMS Code: 13020600 (ANATPHYS)**

**Grade: 11-12, Credit: 1.0**

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

**Recommended Prerequisite: A course from the Health and Science Career Cluster.**

The Anatomy and Physiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

**\*Forensic Science - 3030**

**TSDS PEIMS Code: 13029500**

**Grade: 11-12, Credit 1.0**

**Prerequisites: Biology and Dually enrolled in Chemistry or Physics**

This course offers extensive laboratory experience that integrates the concepts learned in biology, chemistry and physics to strengthen individual skills in scientific reasoning and observation. Using inquiry based settings, students will learn basic scientific and mathematical methods and models required in forensic science. Representative skills are: the determination of the force and motion of a vehicular crash, or the logical sequence of events determined through blood spatter analysis. The course also includes examination of physical evidence, correct crime scene protection and investigation, forensic entomology, and forensic anthropology.

**\*Food Science - 3070**

**TSDS PEIMS Code: 13023000**

**Grade: 11-12, Credit 1.0**

**Prerequisites: Biology**

In Food Science students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Food Science is the study of the nature of foods, the causes of deterioration in food products, the principles underlying food processing, and the improvement of foods for the consuming public.

**\*Advanced Animal Science - 7230**

**TSDS PEIMS Code: 13000700**

**Grade: 11-12, Credit 1.0**

**Prerequisite: Biology and Chemistry or Integrated Physics and Chemistry (IPC); Algebra I and Geometry; and either Small Animal Management, Equine Science, or Livestock Production**

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences.

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## **SOCIAL STUDIES** (3 credits required)

**World Geography Studies - 4030** (Will be offered 2024-2025)

**TSDS PEIMS CODE: 03320100**

**Grade: 9-12 Credit 1.0**

**Prerequisite: NONE**

World Geography is an overview of the Physical and Human Processes that Shape and Change our World. It emphasizes the processes that effect the Earth and how Humans interact with it and each other. Special attention given to the physical components of our world; Landforms, Weather, Seasons, Climate, and Vegetation. As well as the Human components of our world; Human environment Interaction, Culture, Migration, Population, and Diffusion of Ideas and Culture.

**World History Studies - 4025** (Currently offered 2023-2024)

**TSDS PEIMS Code: 03340400 (WHIST)**

**Grade: 9-12, Credit 1.0**

**Prerequisite: None**

World History offers an overview of the entire history of humankind. The major emphasis is on the study of significant people, events, and issues from the earliest times to the present. This course is designed to provide students with a vital understanding of the past in order to help them understand their own times. Attention is given to growth of ideas, the arts, religion, education, literature, and other aspects of intellectual and social history, as well as political, geographic, and economic history of world cultures. Students use the process of historical inquiry to research, interpret, and use multiple sources of evidence.

**U.S. History - 4020****TSDS PEIMS Code: 03340100 (USHIST)****Grade: 11, Credit 1.0****Prerequisite: None**

In this course, the second part of a two-year study of U.S. history that begins in Grade 8, students study the history of the United States from Reconstruction to the present through the use of reading, research, writing, and interpretation of maps, charts, graphs, and tables. Historical content focuses on political, economic, military, diplomatic, and social events and issues, including the contributions of significant groups and individuals to the history of this country, and the impact of geographic factors on major events. An important part of the content is the development and application of the principles of citizenship. Students will use critical thinking skills to explain and apply methods of interpreting the past, including points of view and historical context. They will use a variety of rich primary and secondary source material, such as biographies and autobiographies, Supreme Court cases, novels, speeches, letters, diaries, poetry, songs, artworks, photographs, documentaries, and films.

**\*\*U.S. History DC- 4055/4060****Grade Placement: 11, Credit: 1.0****HIST 1301 History of the United States (3 hours college) - 4055 TSDS PEIMS Code: 03340100****HIST 1302 History of the United States (3 hours college) - 4060 TSDS PEIMS Code: 03340100****Prerequisite: College entrance requirements. Students will be required to complete both fall & spring semester dual credit.**

US History 1301 is a survey of American History from the beginnings through reconstruction. It is offered in the fall semester to juniors who have been accepted into Howard College.

US History 1302 is a survey of American History from reconstruction to the present. It is offered in the spring semester to juniors who have successfully completed US History 1301 with a "70" or higher. Each course requires collegiate level writing. Students in these courses are typically assessed through the completion of 3 to 6 research essays and 3 major tests. At the successful completion of both courses, students earn high school credit as well as 6 college semester hours that may be transferred to any Texas public college or university.

**Government - 4010****TSDS PEIMS Code: 03330100 (GOVT)****Grade: 12, Credit 0.5****Prerequisite: None**

United States Government provides an opportunity for students to study foundations of the United States political system, development of the United States governmental system, the structure and functions of the United States government, and the role of decision-making in civic affairs.

**\*\*Government DC - 4065/4070****TSDS PEIMS Code: 03330100 (GOVT)****Grade: 12, Credit 1.0****Prerequisite: College entrance requirements for ASU.****POLS 2305 United States Government (3 hours college) - 4065 TSDS PEIMS Code: 03330100****POLS 2306 State Government (3 hours college) - 4070 TSDS PEIMS Code: 03380002**

This course provides the opportunity for students to receive both high school and college Credit: at the same time through a dual enrollment. This course is taught in person by MHS faculty.

**Economics - 4015****TSDS PEIMS Code: 03310300 (ECOFE)****Grade: 12, Credit 0.5****Prerequisite: None**

This course is a comprehensive study of the American free enterprise economy. It includes the study of basic concepts of economics, the market system, the American business system, labor unions, money and banking, business cycles, consumer skills, the role of government in free enterprise, and comparative economic systems. Emphasis is placed upon economic decision-making and personal development strategies.

**\*\*Psychology DC - 4037**

**TSDS PEIMS Code: 03350100**

**PSYC 2301 Introduction to Psychology (3 hours college)**

**Grade: 11-12, Credit 0.5**

**Prerequisite: College entrance requirements**

This course provides the opportunity for students to receive both high school and college credit through Howard College. The course will include a study of the basic principles in psychology bearing on growth, motivation, learning, drives, emotions, and similar aspects of human behavior.

**Personal Financial Literacy - 8300**

**TSDS PEIMS Code: 03380082 (PFL)**

**Grade: 12, Credit 0.5**

**Prerequisite: Algebra I, Geometry, and 3rd Math**

Financial Mathematics is a course about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors.

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## **SPEECH**

**Professional Communications - 7475**

**TSDS PEIMS Code: 13009900**

**Grade: 9-12, Credit 0.5**

**Prerequisite: None**

Professional Communications blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research.

**\*\*Public Speaking DC - 4050**

**TSDS PEIMS Code: 03240900**

**SPCH 1315 Public Speaking (3 hours college)**

**Grade: 10-12, Credit 0.5**

**Prerequisite: None; college entrance requirements**

This course provides the opportunity for students to receive both high school and college Credit: at the same time. Students who enter this course must meet the enrollment criteria of Howard College and must pay their tuition at HC for three hours of college Credit. Grades will be recorded both at Miles High School and at HC and will appear on each institution's transcript. The course involves the study of effective communications through speech. Emphasis is placed upon content, organization, and delivery of speeches for various purposes and occasions.



# MHS Career and Technical Education

## Complete Programs of Study Offered:

### **Agriculture, Food, & Natural Resources**

Animal Science  
Applied Agriculture Engineering

### **Business Marketing & Finance**

Business Management

### **Arts, AV, Technology, & Communication**

Design & Multimedia Arts  
Digital Communications

### **Health Sciences**

Exercise Science & Wellness

### **Family & Consumer Sciences**

Culinary Arts  
Family and Community Services

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## AGRICULTURE, FOOD & NATURAL RESOURCES

### **Principles of Agriculture, Food and Natural Resources - 7235**

**TSDS PEIMS Code: 03241400**

**Grade: 9-11, Credit 1.0**

**Prerequisite: None**

To be prepared for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practice, and expectations. To prepare for success, students need to have opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings.

### **Agricultural Mechanics and Metal Technologies - 7220**

**TSDS PEIMS Code: 13002200**

**Grade: 9-12, Credit 1.0**

**Prerequisite: A Principles Course**

Agricultural Mechanics and Metal Technologies is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques. To prepare for careers in agricultural power, structural, and technical systems, students must attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings.

**Agriculture Structures Design and Fabrication - 7225****TSDS PEIMS Code: 13002300****Grade: 10-12, Credit 1.0****Prerequisite: Agricultural Mechanics & Metal Technologies**

In Agricultural Structures Design and Fabrication, students will explore career opportunities, entry requirements, and industry expectations. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural structures design and fabrication. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their academic knowledge and technical skills in a variety of settings

**Agriculture Equipment Design and Fabrication - 7240****TSDS PEIMS Code: 13002350****Grade: 11-12, Credit 1.0****Prerequisite: Agricultural Mechanics and Metal Technologies**

In Agricultural Equipment Design and Fabrication, students will acquire knowledge and skills related to the design and fabrication of agricultural equipment. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural equipment design and fabrication. To prepare for success, students reinforce, apply, and transfer their academic knowledge and technical skills in a variety of settings.

**Livestock Production - 7210****TSDS PEIMS Code: 13002350****Grade: 9-12, Credit 1.0****Recommended: A Principals Course**

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems and 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 in a variety of settings. Animal species to be addressed in this course may include, but are not limited to, beef cattle, dairy cattle, swine, sheep, goats, and poultry.

**\*\*Advanced Animal Science - 7230****TSDS PEIMS Code: 13000700****Grade: 11-12, Credit 1.0****Prerequisite: Biology and Chemistry or Integrated Physics and Chemistry (IPC); Algebra I and Geometry; and either Small Animal Management, Equine Science, or Livestock Production**

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences.

**Wildlife, Fisheries, and Ecology Management - 7215****TSDS PEIMS Code: 13001500****Grade: 9-12, Credit 1.0****Prerequisite: None****Students will earn the Texas Hunter Education Certificate & Boater Education Certificate in this course.**

Wildlife, Fisheries, and Ecology Management examines the management of game and non-game wildlife species, fish, and aquacrops and their ecological needs as related to current agricultural practices. To prepare for careers in natural resource systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources, 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 in a variety of settings.

# Agriculture, Food, and Natural Resources Career Cluster

The Agriculture, Food, and Natural Resources (AFNR) Career Cluster focuses on the essential elements of life food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist. It also includes non-traditional agricultural occupations like wind energy, solar energy, and oil and gas production.

## Animal Science Statewide Program of Study



The Animal Science program of study focuses on the science, research, and business of animals and other living organisms. It teaches CTE learners how to apply biology and life science to real-world life processes of animals and wildlife, either in laboratories or in the field, which could include a veterinary office, a farm or ranch, or any outdoor area harboring animal life. Students may also research and analyze the growth and destruction of species and research or diagnose diseases and injuries of animals.

### Secondary Courses for High School Credit

#### Level 1

- Principles of Agriculture, Food, and Natural Resources

#### Level 2

- Small Animal Management
- Equine Science

#### Level 3

- Livestock Production/Lab

#### Level 4

- Advanced Animal Science
- Veterinary Medical Applications/Lab
- Practicum in Agriculture, Food, and Natural Resources
- Project-Based Research
- Scientific Research and Design

### Postsecondary Opportunities

#### Associates Degrees

- Food Science and Technology
- Veterinary Studies
- Biotechnology Laboratory Technician
- Biology Technician

#### Bachelor's Degrees

- Animal Sciences
- Agriculture
- Biology
- Zoology/ Animal Biology

#### Master's, Doctoral, and Professional Degrees

- Genetics
- Veterinary Medicine
- Biological and Physical Sciences
- Biological and Biomedical Sciences

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"> <li>Participate in Texas FFA</li> </ul>	<ul style="list-style-type: none"> <li>Compete in an Agri-Science Fair 4H</li> <li>Volunteer at a local farm or with a veterinarian</li> <li>Participate in an FFA supervised agriculture experience</li> </ul>

### Industry-Based Certifications

- Agricultural Biotechnology
- Certified Veterinary Assistant, Level 1
- Elanco Fundamentals of Animal Science Certification
- Elanco Veterinary Medical Applications Certification
- Equine Management & Evaluation Certification
- Feedyard Technician in Cattle Care and Handling
- Licensed Veterinary Technician
- Production Agriculture - Job Ready
- Small Animal Science and Technology



### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Animal Breeders	\$39,139	28	9%
Animal Scientists	\$57,533	22	12%
Medical Scientists	\$63,898	435	27%
Veterinarians	\$93,496	294	24%
Zoologists and Wildlife Biologists	\$67,309	45	32%

Successful completion of the Animal Science program of study will fulfill requirements of a Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised – August 2022

# Agriculture, Food, and Natural Resources Career Cluster

The Agriculture, Food, and Natural Resources (AFNR) Career Cluster focuses on the essential elements of life food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist. It also includes non-traditional agricultural occupations like wind energy, solar energy, and oil and gas production.

## Applied Agricultural Engineering Statewide Program of Study



The Applied Agricultural Engineering program of study explores the occupations and educational opportunities associated with applying knowledge of engineering technology and biological science to agricultural problems concerned with power and machinery, electrification, structures, soil and water conservation, and processing agricultural products. This program of study may also include exploration into diagnosing, repairing, or overhauling farm machinery and vehicles, such as tractors, harvesters, dairy equipment, and irrigation systems.

### Secondary Courses for High School Credit

#### Level 1

- Principles of Agriculture, Food, and Natural Resources

#### Level 2

- Agricultural Mechanics and Metal Technologies/Lab

#### Level 3

- Agricultural Structures Design and Fabrications/Lab
- Agricultural Power Systems/Lab
- Geographic Information Systems for Agriculture

#### Level 4

- Agricultural Equipment Design and Fabrication/Lab
- Practicum in Agriculture, Food, and Natural Resources
- Project-Based Research
- Scientific Research and Design

### Postsecondary Opportunities

#### Associates Degrees

- Heavy Equipment Maintenance Technology/ Technician
- Agricultural Mechanization, General
- Small Engine Mechanics and Repair Technology/ Technician
- Welding Technology/ Welder

#### Bachelor's Degrees

- Agricultural Engineering
- Agricultural Mechanization, General

#### Master's, Doctoral, and Professional Degrees

- Agricultural Engineering
- Agricultural Mechanization, General

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"> <li>Tour a farm products or machinery plant</li> <li>Participate in Texas FFA</li> </ul>	<ul style="list-style-type: none"> <li>Earn a welding certification</li> <li>Intern at a farm products or machinery plant</li> <li>Participate in an FFA supervised agriculture experience</li> </ul>

### Industry-Based Certifications

- Agriculture Mechanics
- Agriculture Mechanics
- API 1104 Welding Pipelines and Related Facilities AWS Certified Welder
- AWS D1.1 Structural Steel
- AWS D9.1 Sheet Metal Welding
- AWS SENSE Level 1: Entry Welder
- Feedyard Technician in Machinery Operation, Repair and Maintenance
- Industrial Technology Maintenance (ITM) - Maintenance Welding
- Machining Measurement, Material, and Safety Level I
- NCCER Welding Level I
- General Welding - Job Ready

- OSHA General 30\*

\*IBC sunseting 8/31/24

### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Outdoor Power Equipment and Other Small Engine Mechanics	\$32,406	366	16%
Welders	\$41,350	6171	9%
Farm Equipment Mechanics and Service Technicians	\$39,915	304	17%
Mobile Heavy Equipment Mechanics	\$47,299	1627	16%
Agricultural Engineers	\$64,792	9	13%

Successful completion of the Applied Agricultural Engineering program of study will fulfill requirements of a Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised – August 2022



# **ARTS, A/V TECHNOLOGY & COMMUNICATIONS**

**Principles of Arts, Audio/Video Technology, and Communications - 7027**

**TSDS PEIMS Code: 13008200**

**Grades: 9-12, Credit: 1.0**

**Prerequisite: None**

Careers in the Arts, Audio/Video Technology, and Communications Career Cluster require a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication. 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.

**Digital Design & Media Production - 7020 (2022-2023)**

**TSDS PEIMS Code: 03580400**

**Grade: 9-12, Credit 1.0**

**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.

**Digital Art & Animation - 7025 (2023-2024)**

**TSDS PEIMS Code: 03580500**

**Grade: 9-12, Credit 1.0**

**Prerequisite: None**

Digital Art and Animation consists of computer images and animations created with digital imaging software. 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, and the magazine, television, film, and game industries. Students in this course will produce various real-world projects and animations. 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

**Fashion Design I - 7500**

**TSDS PEIMS Code: 13009300**

**Grade: 9-12, Credit 1.0**

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

Careers in fashion span all aspects of the textile and apparel industries. Within this context, 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 fashion industry with an emphasis on design and construction.

**Fashion Design II - 7510**

**TSDS PEIMS Code: 13009400**

**Grade: 10-12, Credit 1.0**

**Prerequisite: Fashion Design I**

**Graphic Design and Illustration (YEARBOOK I) - 7060**

**TSDS PEIMS Code:13008800**

**Grade: 11-12, Credit 1.0**

**Prerequisite: BIM I**

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design.

**Advanced Graphic Design and Illustration (YEARBOOK II) - 7064**

**TSDS PEIMS Code: 13008900**

**Grade: 11-12, Credit 1.0**

**Prerequisite: Graphic Design and Illustration**

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an advanced understanding of the industry with a focus on mastery of content knowledge and skills.

# Arts, Audio/Video Technology, and Communications Career Cluster

The Arts, A/V Technology and Communications (AAVTC) Career Cluster focuses on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services. Careers in the AAVTC career cluster require a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication.

## Graphic Design & Multimedia Arts Statewide Program of Study



The Graphic Design and Multimedia Arts program of study explores the occupations and educational opportunities associated with designing or creating graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. This program of study may also include exploration into designing clothing and accessories, and creating special effects, animation, or other visual images using film, video, computers, or other electronic tools and media, for use in computer games, movies, music videos, and commercials.

### Secondary Courses for High School Credit

#### Level 1

- Principles of Arts, A/V Technology, and Communications
- Video Game Design
- Digital Media

#### Level 2

- Graphic Design and Illustration I/Lab
- Animation I/Lab
- Video Game Programming
- Commercial Photography I/Lab
- Fashion Design I/Lab
- Digital Design and Media Productions
- Game Programming and Design

#### Level 3

- Graphic Design and Illustration II/Lab
- Animation II/Lab
- Advanced Video Game Programming
- Commercial Photography II/Lab
- Fashion Design II/Lab
- Digital Arts and Animation
- 3-D Modeling and Animation
- Web Game Development

#### Level 4

- Practicum in Graphic Design and Illustration
- Practicum in Animation
- Practicum in Commercial Photography
- Practicum in Entrepreneurship
- Career Preparation I

### Postsecondary Opportunities

#### Associates Degrees

- Animation, Interactive Technology, Video Graphics and Special Effects
- Graphic Design
- Game and Interactive Media Design

#### Bachelor's Degrees

- Animation, Interactive Technology, Video Graphics and Special Effects
- Graphic Design
- Game and Interactive Media Design

#### Master's, Doctoral, and Professional Degrees

- Animation, Interactive Technology, Video Graphics and Special Effects
- Graphic Design
- Intermedia/Multimedia

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"> <li>• Join a website development or coding club</li> <li>• Participate in SkillsUSA or TSA</li> </ul>	<ul style="list-style-type: none"> <li>• Intern with a multimedia or animation studio</li> <li>• Obtain a certificate or certification in graphic design</li> </ul>

### Industry-Based Certifications

- Adobe Certified Professional in Digital Video Using Adobe Premiere Pro
- Adobe Certified Professional in Graphic Design and Illustration Using Adobe Illustrator
- Adobe Certified Professional in Print and Digital Media Publication Using Adobe InDesign
- Adobe Certified Professional in Visual Design
- Adobe Certified Professional in Visual Design Using Adobe Photoshop
- Adobe Certified Professional In Visual Effects and Motion Graphics Using Adobe After Effects
- Audio-Visual Communications - Job Ready
- Autodesk Associate (Certified User) 3ds MAX
- Certified Professional Photographer
- Graphic Production Technology - Job Ready

- Adobe Certified Professional Animate\*

\*IBC Sunsetting 8/31/24

### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Graphic Designers	\$44,824	1,433	15%
Multimedia Artists and Animators	\$67,392	186	21%

# **BUSINESS, MARKETING AND FINANCE**

## **Business Information Management I - 7050**

**TSDS PEIMS Code: 13011400**

**Grade: 9-12, Credit 1.0**

**Prerequisite: None**

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 II - 7055**

**TSDS PEIMS Code: 13011500**

**Grade: 10-12, Credit 1.0**

**Prerequisite: BIM I**

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

## **Business Management - 7145**

**TSDS PEIMS Code: 13012100**

**Grade: 11-12, Credit 1.0**

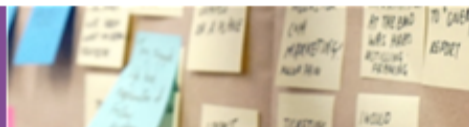
Business Management is designed to familiarize students with the concepts related to business management as well as the functions of management, including planning, organizing, staffing, leading, and controlling. Students will also demonstrate interpersonal and project-management skills.



# Business, Marketing, and Finance Career Cluster

The Business, Marketing, and Finance Career Cluster focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations.

## Business Management Statewide Program of Study



The Business Management program of study teaches CTE learners how to plan, direct, and coordinate the administrative services and operations of an organization. Through this program of study, students will learn the skills necessary to formulate policies, manage daily operations, and allocate the use of materials and human resources. This program of study will also introduce students to mathematical modeling tools and organizational evaluation methods.

### Secondary Courses for High School Credit

#### Level 1

- Principles of Business, Marketing, and Finance
- Business Information Management I/Lab

#### Level 2

- Business Law
- Virtual Business
- Business Information Management II/Lab

#### Level 3

- Business Management
- Global Business
- Human Resources Management

#### Level 4

- Statistics and Business Decision Making
- Practicum in Business Management
- Practicum in Entrepreneurship
- Career Preparation I

### Postsecondary Opportunities

#### Associates Degrees

- Business Administration
- Business/Commerce
- Public Administration
- Business Management

#### Bachelor's Degrees

- Business Administration
- Business/Commerce
- Public Administration
- Management Science

#### Master's, Doctoral, and Professional Degrees

- Business Administration
- Business Management
- Public Administration
- Management Science

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"> <li>• Participate in Business Professional of America, Future Business Leaders of America, or DECA</li> </ul>	<ul style="list-style-type: none"> <li>• Intern with a local business or chamber of commerce</li> </ul>

### Industry-Based Certifications

- Administrative Assisting
- Certified Associate in Project Management (CAPM)
- Entrepreneurship and Small Business
- MB-920: Microsoft Dynamics 365 Fundamentals Finance and Operations Apps
- Microsoft Office Specialist 2016 Master
- Microsoft Office Specialist: Microsoft Access Expert (Access and Access 2019)
- Microsoft Office Specialist: Microsoft Excel Expert (Excel and Excel 2019)
- Microsoft Office Specialist: Microsoft Word Expert (Word and Word 2019)
- Project Management Institute (PMI) Project Management Ready

- Microsoft Office Specialist-Excel\*
- Microsoft Office Specialist-Word\*

\*IBC sunseting 8/31/24

### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Administrative Service Managers	\$96,138	2,277	21%
Management Analysts	\$87,651	4,706	32%
General and Operations Managers	\$107,640	18,679	20%
Supervisors of Administrative Support Works	\$57,616	14,982	20%

Successful completion of the Business Management program of study will fulfill requirements of the Business and Industry endorsement. Revised – August 2022

# **HEALTH SCIENCE**

## **Lifetime Nutrition & Wellness- 7465**

**TSDS PEIMS Code: 13024500**

**Grade: 9-12, Credit 0.5**

**Prerequisite: None**

Lifetime Nutrition and Wellness is a laboratory course that allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services, and health sciences.

## **Kinesiology I - 3037**

**TSDS PEIMS Code: N1302104**

**Grade: 9-12, Credit 1.0**

**Prerequisite: None**

This course is designed for students interested in medical and associated health careers. It gives an overview of the therapeutic, diagnostic, environmental, and informational systems of the healthcare industry. Topics include career requirements, medical history, trends in financing health care, ethical and legal responsibilities, human anatomy and physiology as related to the health care profession, client care, safety, first aid, and CPR. This course prepares the student for the transition to clinical and/or work-based experiences available in the advanced health science courses.

## **Kinesiology II - 3038**

**TSDS PEIMS Code: N1302124**

**Grade: 10-12, Credit 1.0**

**Prerequisite: None**

The Kinesiology II course is designed to provide students an advanced level of knowledge, skills, and understanding of body composition and the effect on health, nutritional needs of physically active individuals, qualitative biomechanics, application of therapeutic modalities, appropriate rehabilitation services, and aerobic training intensity programs. The course is designed to allow students to advance their understanding of professional standards, employability skills, and ethical and legal standards.

## **\*\*Anatomy and Physiology - 3035**

**TSDS PEIMS Code: 13020600**

**Grade: 12, Credit 1.0**

**Prerequisite: Biology and a second science credit.**

In this course, students conduct laboratory investigations and fieldwork, use scientific methods during investigations, and make informed decisions using critical thinking and problem solving. Instruction will be presented through an integration of biology, chemistry, and physics. Students will study the structures and functions of the human body and body systems and will investigate the body's responses to forces, maintenance of homeostasis, electrical interactions, transport systems, and energy systems.

## Health Science Career Cluster

The Health Science Career Cluster focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.

### Exercise Science and Wellness Statewide Program of Study



The Exercise Science and Wellness program of study introduces CTE learners to the fields that assist patients with maintaining physical, mental, and emotional health. Students will research diet and exercise needed to maintain a healthy, balanced lifestyle and learn about and practice techniques to help patients recover from injury, illness, or disease.

#### Secondary Courses for High School Credit

##### Level 1

- Lifetime Nutrition and Wellness
- Principles of Exercise Science and Wellness

##### Level 2

- Kinesiology I

##### Level 3

- Anatomy and Physiology
- Kinesiology II

##### Level 4

- Practicum in Entrepreneurship
- Project Based Research
- Career Preparation I

#### Postsecondary Opportunities

##### Associates Degrees

- Physical Therapist Assistant
- Physical Therapy Aides
- Dietetic Technician

##### Bachelor's Degrees

- Kinesiology and Exercise Science
- Therapeutic Recreation/Recreational Therapy
- Athletic Training/Trainer

##### Master's, Doctoral, and Professional Degrees

- Exercise Physiology
- Therapeutic Recreation/Recreation Therapy
- Athletic Training/Trainer
- Physical Therapist

#### Work-Based Learning and Expanded-Learning Opportunities

##### Exploration Activities

- Participate in Health Occupations Students of America

##### Work-Based Learning Activities

- Volunteer at a hospital or rehabilitation center
- Manage a school sports team

#### Industry-Based Certifications

- Certified Personal Trainer
- Pre-Professional Certification in Nutrition, Food, and Wellness



#### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Athletic Trainers	\$53,450	215	22%
Exercise Physiologists	\$41,662	33	33%
Coaches and Scouts	\$40,010	2,133	23%
Dieticians and Nutritionists	\$57,762	428	24%
Recreational Therapists	\$45,906	74	24%

Successful completion of the Exercise Science program of study will fulfill requirements of a Public Service endorsement or STEM endorsement if the math and science requirements are met. Revised – August 2022

# **FAMILY CONSUMER SCIENCES**

## **Principles of Hospitality and Tourism - 7480**

**TSDS PEIMS Code: 13022200**

**Grade: 9-11, Credit 1.0**

**Prerequisite: Preferred: Principles Course**

This course is designed to introduce students to fundamentals of nutrition, wellness as well as basic food preparation including fundamental methods and concepts in the culinary arts in which laboratory practice will parallel class work. Additional topics covered include: food safety & sanitation and principles of lifetime nutrition & wellness. Students will have the opportunity to participate in related career and technical organizations & educational study trips as well as explore career opportunities and pathways in the Hospitality & Tourism Program of Study.

## **Lifetime Nutrition and Wellness - 7465**

**TSDS PEIMS Code: 13024500**

**Grade: 9-12, Credit 0.5**

**Prerequisite: None**

Lifetime Nutrition and Wellness is a laboratory course that allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services, and health sciences. Please note: This is a one semester course that will be paired with professional communications.

## **Human Growth and Development - 7435**

**TSDS PEIMS Code: 13014300**

**Grade: 9-12, Credit 1.0**

**Prerequisite: Principles Course**

Human Growth and Development is an examination of human development across the lifespan with emphasis upon research, theoretical perspectives, and common physical, cognitive, emotional, and social developmental milestones. The course covers material that is generally taught in a postsecondary, one-semester introductory course in developmental psychology or human development.

## **Child Development - 7470**

**TSDS PEIMS Code: 13024700**

**Grade: 9-12, Credit 1.0**

**Prerequisite: Principles Course**

Child Development is a technical course that addresses knowledge and skills related to child growth and development from prenatal through school-age children, equipping students with child development skills. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children.

## **Family and Community Services- 7495**

**TSDS PEIMS Code: 13024900**

**Grade: 9-12, Credit 1.0**

**Prerequisite: Preferred: Principles of Hospitality and Tourism**

Family and Community Services is a laboratory-based course designed to involve students in realistic and meaningful community-based activities through direct service or service-learning experiences. Students are provided opportunities to interact with and provide services to individuals, families, and the community through community or volunteer services. Emphasis is placed on developing and enhancing organizational and leadership skills and characteristics.

**Introduction to Culinary Arts - 7450****TSDS PEIMS Code: 13022550****Grade: 9-12, Credit 1.0****Prerequisite: Preferred: Principles Course**

This course is designed to introduce students to fundamentals of nutrition, wellness as well as basic food preparation including fundamental methods and concepts in the culinary arts in which laboratory practice will parallel class work. Additional topics covered include: food safety & sanitation and principles of lifetime nutrition & wellness. Students will have the opportunity to participate in related career and technical organizations & educational study trips as well as explore career opportunities and pathways in the Hospitality & Tourism Program of Study.

**Culinary Arts - 7425****TSDS PEIMS Code: 13022600****Grade: 10-12, Credit 2.0 (double blocked periods)****Prerequisite: Introduction to Culinary Arts and/or Principles of Hospitality and Tourism**

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, a Texas culinary specialist certification, or any other appropriate industry certification. This course may be offered as a laboratory-based or internship course. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

**\*Food Science - 3070****TSDS PEIMS Code: 13023000****Grade: 11-12, Credit 1.0****Prerequisites: Biology**

In Food Science students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Food Science is the study of the nature of foods, the causes of deterioration in food products, the principles underlying food processing, and the improvement of foods for the consuming public.

## Hospitality and Tourism Career Cluster

The Hospitality and Tourism Career Cluster focuses on the management, marketing, and operations of restaurants and other food/beverage services, lodging, attractions, recreation events, and travel-related services. Students acquire knowledge and skills focusing on communication, time management, and customer service that meet industry standards. Students will explore the history of the hospitality and tourism industry and examine characteristics needed for success.

### Culinary Arts Statewide Program of Study



The Culinary Arts program of study introduces CTE learners to occupations and educational opportunities related to the planning, directing, or coordinating activities of a food and beverage organization or department. This program of study also explores opportunities involved in directing and participating in the preparation and cooking of food.

#### Secondary Courses for High School Credit

##### Level 1

- Introduction to Culinary Arts
- Principles of Hospitality and Tourism

##### Level 2

- Culinary Arts
- Foundations of Restaurant Management

##### Level 3

- Advanced Culinary Arts

##### Level 4

- Food Science
- Practicum in Culinary Arts
- Practicum in Entrepreneurship
- Career Preparation I

#### Postsecondary Opportunities

##### Associates Degrees

- Hotel and Restaurant Management
- Restaurant Culinary and Catering Management
- Hospitality Administration/ Management, General
- Culinary Arts/ Chef Training

##### Bachelor's Degrees

- Hotel and Restaurant Management
- Food Service Systems Administration/ Management
- Hospitality Administration/ Management, General
- Culinary Science and Food Service Management

##### Master's, Doctoral, and Professional Degrees

- Hotel and Restaurant Management
- Food Service Systems Administration/ Management
- Hospitality Administration/ Management, General
- Business Administration Management, General

#### Work-Based Learning and Expanded Learning Opportunities

##### Exploration Activities

- Participate in Family, Career, and Community Leaders of America, SkillsUSA, American Culinary Federation, or the Texas Restaurant Association

##### Work-Based Learning Activities

- Plan a catering event or work for a catering company
- Participate in a cooking course
- Work in a restaurant

#### Industry-Based Certifications

- Certified Fundamentals Cook
- Certified Fundamentals Pastry Cook
- Certified Hospitality & Tourism Management Professional
- Commercial Foods
- Culinary Meat Selection & Cookery Certification
- Food Protection Manager Certification
- Food Safety & Science Certification
- ManageFirst Professional
- Pre-Professional Certification in Culinary Arts
- Pre-Professional Certification in Food Science Fundamentals
- ServSafe Manager



#### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Food and Beverage Managers	\$55,619	1,561	28%
Chef and Head Cooks	\$43,285	1,366	25%
Food Science Technicians	\$34,382	236	11%

# Human Services Career Cluster

The Human Services Career Cluster focuses on preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care services, and consumer services.

## Family and Community Services Statewide Program of Study



The Family and Community Services program of study introduces students to knowledge and skills related to social services, including child and human development and consumer sciences. CTE learners may learn about or practice managing social and community services or teaching family and consumer sciences. Students may follow career paths in social work or therapy for children, families, or school communities.

### Secondary Courses for High School Credit

#### Level 1

- Principles of Human Services
- Professional Communications
- Interpersonal Studies
- Dollars and Sense
- Principles of Community Services

#### Level 2

- Lifetime Nutrition and Wellness
- Human Growth and Development
- Child Development
- Social and Community Services

#### Level 3

- Counseling and Mental Health
- Family and Community Services

#### Level 4

- Practicum in Human Services
- Practicum in Entrepreneurship
- Project-Based Research
- Career Preparation I

### Postsecondary Opportunities

#### Associates Degrees

- Human Development and Family Studies
- Human Services/Sciences, General
- Family and Consumer Sciences
- Community Health Services

#### Bachelor's Degrees

- Human Development and Family Studies
- Human Services/Sciences, General
- Family and Consumer Sciences
- Child and Family Services

#### Master's, Doctoral, and Professional Degrees

- Human Development and Family Studies
- Marriage and Family Therapy/Counseling
- Human Services/Sciences
- Family Studies

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"> <li>• Participate in American Association of Family and Consumer Sciences or Family, Career and Community Leaders of America</li> </ul>	<ul style="list-style-type: none"> <li>• Volunteer at a community center</li> <li>• Intern for a community non-profit organization</li> </ul>

### Industry-Based Certifications

- Community Health Workers
- Child Development Associate (CDA)



### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Child, Family, and School Social Workers	\$41,350	2,221	17%
Social and Community Services Managers	\$65,146	608	33%
Marriage and Family Therapists	\$42,266	217	35%
Social and Human Service Assistants	\$32,448	2,822	25%

Successful completion of the Family and Community Services program of study will fulfill requirements of the Public Service endorsement. Revised – August 2022

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**Career Prep - 7400****TSDS PEIMS Code: 12701300****Grade: 11-12, Credit: 2.0-3.0****Prerequisite: None**

Career Preparation provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and supports strong partnerships among school, business, and community stakeholders. This can be the final course in any strand.

**Project-Based Research - 7290****TSDS PEIMS Code: 12701500****Grade: 11-12, Credit: 1****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.

**\*\*Medical Terminology DC - 7065****HPRS 1206 Medical Terminology (3 hours college)****TSDS PEIMS Code: 13020300****Grade: 11-12, Credit 0.5****Prerequisite: College entrance requirements.**

This course is 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. Students who enter this course must meet the enrollment criteria of Howard College. Grades will be recorded both at Miles High School and at Howard College and will appear on each institution's transcript. *This course will be taught on the high school campus in an online format.*





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## MISD Dual Credit Policy and Scheduling Procedures

Dual Credit courses will be available to eligible 11th and 12th grade students. (see eligibility requirements on the following page)

Available Dual Credit courses are as follows:

<u>Grade</u>	<u>College Course-Fall</u>	<u>HS Equivalent-Fall</u>	<u>College Course-Spring</u>	<u>HS Equivalent-Spring</u>
11	HIST 1301 US History*	US History	HIST 1302 US History*	US History
11	SPCH 1315 Public Speaking	Public Speaking	PSYCH 2301 General Psychology	Psychology
12	POLS 2305 Federal Government (ASU*)	U.S. Government	POLS 2306 Texas Government (ASU*)	Special Topics in Social Studies
12	ENGL 1301 Composition 1	English 4A	ENGL 1302 Comp II	English 4B
12	Math 1314 College Algebra	Independent Study Math (1 credit)	Student Choice*	Student Choice*

\*US History- Dual Credit students must take both History 1301 and 1302 in the fall and spring in order to meet the TEKS requirements for the US History EOC.

\*POLS 2305/2306 is an Angelo State University dual credit course taught by Jared Graves on campus.

\*Student Choice- Dual Credit students may choose one 3 hour class to fill their schedule senior year. Class approval will be pending availability, high school credit equivalency per TEA, and the terms of the MISD Memorandum Of Understanding with Howard College.

Note: Not all colleges and universities accept credit earned in all dual credit courses taken in high school for college credit. Students and parents should check with the prospective college or university to determine if a particular course will count toward the student’s desired degree plan.

## Student Eligibility for Dual Credit Classes

Determine your TSI status. To be able to enroll in dual credit courses, all students who do not meet the exempt requirements must take the TSI Assessment test in Math and/or Reading and Writing. See requirements listed below. Contact the MHS high school counselor for scores and assistance.

### Dual Credit TSI Eligibility

TEST	English Language Arts & Reading (ELAR)	Math
ACT	Composite Score of 23 with at least a 19 on the English and the Math.	
New SAT Effective Aug. 23, 2017	Evidence-Based Reading and Writing Score of 480 or higher.	Minimum Score of 530 on the Math
STAAR	English II EOC of 4000 or higher	Algebra 1 EOC of 4000 or higher (Taken and Passed Algebra II Course)
New TSIA2 Effective Jan. 11, 2021	CRC $\geq$ 945 and Essay = 5-8: College Ready CRC < 945 and DT = 5-6 and Essay = 5-8: College Ready *College Readiness Classification Test (CRC) *Diagnostic Test (DT)	CRC $\geq$ 950; College Ready CRC < 950 and DT = 6: College Ready *College Readiness Classification Test (CRC) *Diagnostic Test (DT)
Old TSI	Reading – 351 or higher Writing – 5-8 Essay (including ABE 5-6) <b>OR</b> 340 or higher and 4 on Essay	350 or higher

- All college-level Academic Reading and/or Writing courses require passing TSI scores in ELAR.
- All college-level Math courses (and some Sciences) require passing TSI scores in Math.

### Frequently Asked Questions:

1. **Cost?** Howard DC courses are \$60 per hour with a \$100 flat fee **each** semester. For example, if you take one 3 hour course in the fall the cost will be \$100+\$180=\$280. If you take two courses the cost will be \$100+\$180+\$180=\$460. *\*Dual Credit pricing is available to our students through the summer sessions immediately FOLLOWING their senior year.*
2. **Enrollment?** Howard College representatives will offer a Spring and Fall parent session on MHS campus to enroll students and introduce students to the portal and HC expectations and resources. MHS Counselor will complete the DC registration card during MHS enrollment and submit to Howard advisors to process. If a parent is unable to attend a session on MHS campus they are responsible for coordinating an alternative date/time with Howard College PRIOR to school starting.
3. **Teacher?** Dual Credit courses are taught by a Howard College faculty and proctored by MHS faculty. The student is enrolled in a college course and is responsible for keeping track of deadlines and course requirements. The MHS faculty is provided for student support and verify attendance to obtain high school credit.