



## **2022-2023**

# **Academic Planning Guide**

**Midlothian High  
School**



**Midlothian Heritage  
High School**



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## **Vision Statement**

Inspiring excellence today to change the world tomorrow.

## **Mission Statement**

The mission of Midlothian ISD is to educate students  
by empowering them to maximize their potential.

## **Belief Statements**

- We believe that safe, engaging, rigorous, and diverse learning environments provide the best opportunity for students to reach their fullest potential.
- We believe a high-quality staff with appropriate resources is essential to creating educational experiences that promote student success.
- We believe that effective communication, purposeful collaboration, and strong partnerships create an atmosphere of trust and a strong sense of community vital to student achievement.

## **Cultural Tenets**

We Are Family ~ Unlimited Potential ~ Excellence Through Purpose  
Honor Relationships ~ Celebrate the Power of Diversity ~ Midlothian Strong

## **Visionary Leader Profile**

Serves First ~ Fosters Innovation ~ Communicates Effectively  
Exhibits Integrity ~ Empowers Others

## **Learner Profile**

Servant Leader ~ Digital Citizen ~ Cultural Leader ~ Innovative Designer ~ Knowledge  
Constructor ~ Critical Thinker ~ Creative Communicator ~ Global Collaborator  
Peer Supporter ~ Empowered Learner ~ Reflective Self-Evaluator ~ Purposeful Explorer

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It is the policy of the Midlothian Independent School district to comply fully with the nondiscrimination provisions of all federal and state laws and regulations by assuring that no persons shall be excluded from consideration for recruitment, selection, appointment, training, promotion, retention, or any other personal action, or be denied any benefits of participation in any programs on the grounds of race, religion, color, national origin, sex, handicapped disadvantages, limited English proficient, age or veteran status (except where age, sex, or handicap constitute a bona fide occupational qualification necessary to proper and efficient administration).



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College/Career Liaison  
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Lead Counselor  
Counselor  
Counselor  
College/Career Liaison  
Counselor Secretary

# Midlothian ISD Academic Planning Guide

Midlothian ISD offers a variety of options to prepare students for meaningful post-secondary endeavors and career pathways, including college, technical school, military service, full-time employment, and other areas. The programs offered allow a student to choose the high school program best for him/her, whether that program is the traditional college preparatory, tech-prep or career preparatory program.

This Academic Planning Guide is designed to assist students, parents, and counselors in making important decisions about a student's high school years. Outlined on the following pages are the Academic Policies and Procedures, Program Opportunities, Community Service, and Graduation Requirements for students enrolled in Midlothian ISD high schools, in addition to the state's possible graduation programs. Please note that other than state graduation requirements in effect upon the student entering 9th grade, this document, and the procedures found within, are subject to change from year to year. When reviewing specific course requirements, it is important to note in which year the student entered grade nine since the State Board of Education has made several changes in course requirements during recent years. Presented on the following pages are the possible graduation programs for students at Midlothian ISD high schools.

Course descriptions are listed with accompanying information about prerequisites and grade level placement. It is strongly encouraged that parents, students, and counselors partner together to give careful attention to course sequences and how those align with the selected graduation plan.

## A Time for Decision Making

Planning a four-year high school program takes careful and detailed planning. Although many courses will be determined by the graduation plan selected, students will have other choices to make during the four years of school. The courses selected should be guided largely by the student's plans for the future.

Some guiding questions for academic planning conversations could include:

- Will you continue your education in college or in a trade or vocational school?
- Do you want to learn a career skill in order to enter the full-time work force immediately after school?
- Are you interested in a technical field?
- Are you thinking of entering a profession that requires many years of specialized education?

## Graduation Information

### Personal Graduation Plan

Students will begin planning their future during their eighth grade year. During this year, counselors will work with students on selecting a Personal Graduation Plan (PGP) that outlines their 4 years of high school coursework. This PGP is flexible and can possibly be adjusted early in the student's high school career. Each year after their eighth grade year, counselors will continue to meet with students to discuss any changes in future plans, ensure that students are still on track, and update their Personal Graduation Plan. See Appendix A for a copy of the PGP.

Some students are sure of their future plans from the day they enter high school; others are not. It is also common for young people to change their minds about which career to choose. For this reason, it is important to plan for a challenging program. By maintaining a challenging educational program, a student has more options if he/she changes career plans later.



Through the work of the MISD Learner Profile, MISD students will be prepared to leave high school with the skills necessary to compete in a global marketplace.

## **Foundation High School Program plus Endorsement**

The State of Texas has developed the Foundation High School Program (FHSP) as the "default curriculum." It is an expectation that all Midlothian ISD high school students will complete the Foundation High School Program plus one or more endorsements to earn a diploma. Through the coursework, a student needs to earn 26 state credits following the courses required in the FHSP + endorsement. Exceptions to this expectation should be determined through an extensive decision making process that includes the student, the student's parent or guardian, teachers, school administrators, and a guidance counselor.

## **Distinguished Level of Achievement**

A student may earn a distinguished level of achievement by successfully completing the curriculum requirements for the Foundation High School Program and the curriculum requirements for at least one endorsement required by the Texas Education Code (TEC), §28.025(b-15), including four credits in science and four credits in mathematics to include Algebra II. The Distinguished Level of Achievement includes 26 graduation credits. A student must earn this designation to be eligible for Top 10% Automatic Admission to a Texas public university.

## **Endorsements**

Endorsements consist of a related series of courses that are grouped together by interest or skill set. They provide students with in-depth knowledge of a subject area. Students must select an endorsement in the ninth grade. A high school guidance counselor will help students select appropriate endorsements during 8th grade as a part of their Personal Graduation Plan (PGP) in order to be purposeful with their course selections for all four years of high school.

To earn an endorsement, a student must complete at least 26 credits and include the following:

1. completion of the Foundation High School Program,
2. a fourth credit in Mathematics,
3. a fourth credit in Science,
4. a coherent sequence of courses in four or more credits in CTE that consists of at least two courses in the same career cluster and at least one advanced CTE course.
5. The final course in the sequence must be selected from the career cluster chosen.



For more information related to endorsements, visit the Texas Education Agency (TEA) website and the [high school graduation toolkit](#).

## Performance Acknowledgements

Students may earn an additional acknowledgment on their transcripts because of outstanding performance in areas such as dual credit courses and bilingualism and biliteracy; on Advanced Placement, International Baccalaureate, PSAT, ACT ASPIRE®, the SAT or ACT exams; or by earning a state-, nationally- or internationally-recognized business or industry certification.

## EOC Student Assessment Requirements for Graduation

To receive a Texas high school diploma, a student must complete all the necessary coursework for graduation (see above) and must also demonstrate proficiency on the End of Course (EOC) exams in the following subject areas: Algebra I, English I, English II, US History, and Biology. Students are expected to obtain at least a minimum passing score in each subject area to meet graduation requirements.

## FAFSA/TAFSA Graduation Requirement

In accordance with Texas Education Code (TEC), §28.0256, beginning with students enrolled in 12th grade during the 2021-2022 school year, each student must do one of the following in order to graduate:

- Complete and submit a Free Application for Federal Student Aid (FAFSA);
- Complete and submit a Texas Application for State Financial Aid (TASFA); or
- Submit a signed opt-out form.

Students and parents will receive information on this process from their high school counselor.

## Community Service Graduation Requirements

All Midlothian students must complete a minimum of **ten** community service hours as a requirement for graduation. Hours must be earned while in high school. Below are the guidelines for obtaining Community Service hours:

1. The student will receive NO pay for services, monetary or otherwise, of any kind.
2. The service completed must benefit a person in need (a non-family member); a non-profit organization or an organization, which assists persons in need; or fulfill a civic need in the community.
3. The service must be performed on the student's own time or as a part of a school sponsored organization in which the sponsor approves and coordinates the service during the school day.
4. The student shall be responsible for reporting his/her own service hours according to the established guidelines. Forms are available in the high school counseling center and the high schools' websites.
5. Students may not overlap (count twice) service hours for other organizations such as Honor Society, PALS, Student Council, etc. Community Service hours that are assigned as a result of a court order will not count toward the district requirement.
6. The only time hours should be accumulated or held is in the case of completing all service hours in one location on a continuous basis.
7. Community service hours required as a result of legal actions do not count.
8. Documentation must be signed by the student, the student's parent, and the adult supervisor of the service activity and are subject to verification by Midlothian Independent School District.
9. Service hours will be entered into the system when the completed community service form is turned into the counseling office.
10. Keep a copy for your own documentation.
11. Students transferring from outside the district will have their hours prorated.

## Automatic Admission Requirements

In accordance with Texas Education Code (TEC), §51.803, a student is eligible for automatic admission to a Texas public college or university as an undergraduate student if the student earned a grade point average in the top 10 percent of the student's high school graduating class or in the percentage of qualified applicants that are anticipated to be offered admission to the University of Texas at Austin\*, and the applicant

- (1) successfully completed the requirements for the Recommended High School Program (RHSP) or the Distinguished Achievement Program (DAP);
- (2) earned the distinguished level of achievement under the Foundation High School Program; or
- (3) satisfied ACT's College Readiness Benchmarks on the ACT assessment or earned on the SAT assessment a score of at least 1,500 out of 2,400 or the equivalent.

High school rank for students seeking automatic admission to a general academic teaching institution is determined and reported as follows.

- (1) Class rank must be based on the student's rank at the end of the 11th grade, middle of the 12th grade, or at high school graduation, whichever is most recent at the application deadline.
- (2) The top 10 percent of a high school class cannot contain more than 10 percent of the total class size.
- (3) The student's rank must be reported by the student's high school or school district as a specific number out of a specific number total class size.
- (4) Class rank shall be determined by the school or school district from which the student graduated or is expected to graduate.

A student is considered to have satisfied the course requirements of the RHSP, DAP, or the distinguished level of achievement under the Foundation High School Program if the student completed the portion of those programs that was available to the student but which the student was unable to complete because the courses were unavailable as a result of circumstances not within the student's control.

To qualify for automatic admission an applicant must

- (1) submit an application before the deadline established by the Texas college or university to which the student seeks admission; and
- (2) provide a high school transcript or diploma that indicates whether the student has satisfied or is on schedule to satisfy the requirements of the RHSP, DAP, or the distinguished level of achievement under the Foundation High School Program or the portion of the requirements of those programs that was available to the student.

Texas colleges and universities are required to admit an applicant for admission as an undergraduate student if the applicant is the child of a public servant who was killed or sustained a fatal injury in the line of duty and meets the minimum requirements, if any, established by the governing board of the college or university for high school or prior college- level grade point average and performance on standardized tests.

\* The University of Texas at Austin (UT) is not required to automatically admit applicants in excess of 75% of its enrollment capacity for first-time resident undergraduate students. Should the number of applicants who qualify for automatic admission exceed 75% of enrollment capacity, UT must provide notice of the percentage of qualified applicants that are anticipated to be offered admission.

## State Financial Aid Programs with Curriculum Requirements

Under TEC, Title 3, there are several state financial aid programs available for Texas public high school students. The following state financial aid programs include certain curriculum requirements to be considered when planning a student's high school career to ensure eligibility for financial aid under one of these programs. **Please note that this is not a complete list of requirements and additional eligibility requirements apply.** A full list of requirements is available through the Texas Higher Education Coordinating Board's financial aid webpage at <http://www.collegeforalltexas.com/apps/financialaid/tofa2.cfm?ID=458>.

Individuals interested in the following financial aid opportunities are strongly encouraged to check the status of each grant program for the anticipated year(s) of enrollment in an institution of higher education at <http://www.collegeforalltexas.com/apps/financialaid/tofa2.cfm?ID=458>.

**Texas B-On-Time (BOT):** Applicants must meet one of the following academic requirements:

- a. Graduated in the 2002–2003 academic year or later under the RHSP or DAP, or its equivalent
- b. Earned an associate's degree from an eligible institution no earlier than May 1, 2005

### Top Ten Percent Scholarship

To receive an initial award through the Top 10 Percent Scholarship Program, a student must have graduated while ranked in the top 10 percent of his or her graduating class and completed the RHSP or DAP curriculum or earned the distinguished level of achievement on the Foundation High School Program (or the equivalent) at an accredited public high school in Texas, or the equivalent at an accredited private high school in Texas.

## TEXAS Grant

### Basic Initial Year (IY) Student Eligibility Curriculum Requirements

A student must complete the Foundation High School Program, RHSP, or DAP (or the equivalent).

### Priority Model Initial Year (IY) Student Curriculum Eligibility Requirements

In addition to the basic initial year (IY) student eligibility requirements, to receive priority consideration for an IY award through the TEXAS Grant Program, a student must meet at least one requirement in at least two of the four following areas:

AREA	REQUIREMENT(S)
Advanced Academic Program	Earn 12 hours of college credit (dual credit or AP courses), complete the Distinguished Achievement Program (DAP), or complete the International Baccalaureate (IB) Program
TSI Readiness	Meet the Texas Success Initiatives (TSI) assessment thresholds or qualify for an exemption
Class Standing	Graduate in the top one-third of the HS graduating class or have a B average
Advanced Math	Complete at least one math course beyond Algebra II as determined by the Texas Education Agency (TEA) or complete at least one advanced career and technical course, as determined by TEA

A full list of TEXAS Grant eligibility requirements is provided at <http://www.collegeforalltexans.com/apps/financialaid/tofa2.cfm?ID=458>.

## Academic Regulations

### Grade Classification

Students are classified at the beginning of the school year according to the number of credits they have earned. Classifications will remain the same throughout the school year unless corrections are necessary due to errors or if a student whose reclassification at mid-term enables him/her to graduate at the end of that spring semester. The principal makes the determination.

<b>Freshman (9th Grade)</b> .....	<b>0-5.5 credits</b>
<b>Sophomore (10th Grade)</b> .....	<b>6 credits</b>
<b>Junior (11th Grade)</b> .....	<b>13 credits</b>
<b>Senior (12th Grade)</b> .....	<b>19 credits</b>
<b>Graduation</b> .....	<b>26 credits</b>

### Promotion and Retention

A high school student will be promoted only on the basis of adequate attainment of credit as outlined above in the section Grade Classification. To earn credit in a course, a student must receive a grade of at least 70 based on course-level or grade-level standards. Excessive absences may result in loss of credit (TEC 25.092) even if a passing grade is earned.

### Attendance for Credit

The Minimum Attendance for Class Credit Law (section 25.092) states, "A student may not be given credit for a class unless the student is in attendance for at least 90% of the days the class is offered." A student who is in attendance for at least 75 percent but less than 90 percent of the days a class is offered may be given credit or a final grade for the class if the student completes a plan approved by the school's principal that provides for the student to meet the instructional requirements of the class.

### Grade Point Averages

Students will have two types of Grade Point Averages reflected on their Academic Achievement Record (AAR) or transcript. One is a weighted GPA and one is a 4 point GPA. Weighted GPA is used for class rank purposes and includes only courses listed below in the chart labeled "Chapter 74 Courses for Weighted GPA". The 4 point GPA

includes all courses taken that count for state graduation credit, including high school courses taken in middle school.

## Class Rank

For students who entered grade 9 in the 2018-19 school year or thereafter, the District shall include in the calculation of class rank only grades earned for high school credit in the following subjects: English, Mathematics, Science, and Social Studies according to TEA Chapter 74 as listed below in the chart labeled “Chapter 74 Courses for Weighted GPA”. The District shall assign weights to semester grades earned in eligible courses and shall calculate a weighted grade average in accordance with the following:

Level	Configuration	Courses (English, Mathematics, Science, and Social Studies according to TEA Chapter 74 as listed below)
Advanced	1.15	Eligible AP courses shall be categorized and weighted as <b>Advanced courses</b> ; weight is calculated at the end of the semester
Honors	1.10	Eligible Pre-AP, dual credit courses, and courses locally designated as honors shall be categorized and weighted as <b>Honors courses</b> ; weight is calculated at the end of the semester
Regular	1.0	All other eligible courses shall be categorized and weighted as <b>Regular courses</b> .

## Calculation of Class Rank

Calculation of class rank is based on potential credit for semester grades earned in a course from Ch. 74 listed in the chart of the section labeled “Chapter 74 Courses for Weighted GPA”. To calculate the GPA points associated with each semester grade, divide the numerical grade earned by 25, multiply that number by the multiplier for the course level (either 1.0, 1.10, or 1.15). This number will be the GPA points associated with that semester grade.

Example: For a semester grade of 92 for a Pre-AP course:  $(92/25 = 3.68, 3.68 \times 1.10 = 4.048)$

Preliminary calculation of class rank shall be made available to students by the end of the first grading period of their Junior year. Class ranks thereafter will be given to students each semester.

Students must have achieved the Distinguished Level of Achievement to be ranked in the top 10% of the class for automatic admissions eligibility to any public Texas university (except where other limits apply). The calculation shall include failing grades.

Below is a chart that provides grade point average equivalencies by weight category.

Weighted Grade Scales with Grade Points					
1.15		1.1		1	
100	4.6	100	4.4	100	4
99	4.554	99	4.356	99	3.96

98	4.508	98	4.312	98	3.92
97	4.462	97	4.268	97	3.88
96	4.416	96	4.224	96	3.84
95	4.37	95	4.18	95	3.8
94	4.324	94	4.136	94	3.76
93	4.278	93	4.092	93	3.72
92	4.232	92	4.048	92	3.68
91	4.186	91	4.004	91	3.64
90	4.14	90	3.96	90	3.6
89	4.094	89	3.916	89	3.56
88	4.048	88	3.872	88	3.52
87	4.002	87	3.828	87	3.48
86	3.956	86	3.784	86	3.44
85	3.91	85	3.74	85	3.4
84	3.864	84	3.696	84	3.36
83	3.818	83	3.652	83	3.32
82	3.772	82	3.608	82	3.28
81	3.726	81	3.564	81	3.24
80	3.68	80	3.52	80	3.2
79	3.634	79	3.476	79	3.16
78	3.588	78	3.432	78	3.12
77	3.542	77	3.388	77	3.08
76	3.496	76	3.344	76	3.04
75	3.45	75	3.3	75	3
74	3.404	74	3.256	74	2.96
73	3.358	73	3.212	73	2.92
72	3.312	72	3.168	72	2.88
71	3.266	71	3.124	71	2.84
70	3.22	70	3.08	70	2.8
69	2.76	69	2.76	69	2.76
68	2.72	68	2.72	68	2.72
67	2.68	67	2.68	67	2.68
66	2.64	66	2.64	66	2.64
65	2.6	65	2.6	65	2.6
64	2.56	64	2.56	64	2.56
63	2.52	63	2.52	63	2.52
62	2.48	62	2.48	62	2.48
61	2.44	61	2.44	61	2.44
60	2.4	60	2.4	60	2.4
59	2.36	59	2.36	59	2.36
58	2.32	58	2.32	58	2.32
57	2.28	57	2.28	57	2.28
56	2.24	56	2.24	56	2.24
55	2.2	55	2.2	55	2.2
54	2.16	54	2.16	54	2.16
53	2.12	53	2.12	53	2.12
52	2.08	52	2.08	52	2.08
51	2.04	51	2.04	51	2.04
50	2	50	2	50	2
49	1.96	49	1.96	49	1.96
48	1.92	48	1.92	48	1.92
47	1.88	47	1.88	47	1.88

46	1.84	46	1.84	46	1.84
45	1.8	45	1.8	45	1.8
44	1.76	44	1.76	44	1.76
43	1.72	43	1.72	43	1.72
42	1.68	42	1.68	42	1.68
41	1.64	41	1.64	41	1.64
40	1.6	40	1.6	40	1.6
39	1.56	39	1.56	39	1.56
38	1.52	38	1.52	38	1.52
37	1.48	37	1.48	37	1.48
36	1.44	36	1.44	36	1.44
35	1.4	35	1.4	35	1.4
34	1.36	34	1.36	34	1.36
33	1.32	33	1.32	33	1.32
32	1.28	32	1.28	32	1.28
31	1.24	31	1.24	31	1.24
30	1.2	30	1.2	30	1.2
29	1.16	29	1.16	29	1.16
28	1.12	28	1.12	28	1.12
27	1.08	27	1.08	27	1.08
26	1.04	26	1.04	26	1.04
25	1	25	1	25	1
24	0.96	24	0.96	24	0.96
23	0.92	23	0.92	23	0.92
22	0.88	22	0.88	22	0.88
21	0.84	21	0.84	21	0.84
20	0.8	20	0.8	20	0.8
19	0.76	19	0.76	19	0.76
18	0.72	18	0.72	18	0.72
17	0.68	17	0.68	17	0.68
16	0.64	16	0.64	16	0.64
15	0.6	15	0.6	15	0.6
14	0.56	14	0.56	14	0.56
13	0.52	13	0.52	13	0.52
12	0.48	12	0.48	12	0.48
11	0.44	11	0.44	11	0.44
10	0.4	10	0.4	10	0.4
9	0.36	9	0.36	9	0.36
8	0.32	8	0.32	8	0.32
7	0.28	7	0.28	7	0.28
6	0.24	6	0.24	6	0.24
5	0.2	5	0.2	5	0.2
4	0.16	4	0.16	4	0.16
3	0.12	3	0.12	3	0.12
2	0.08	2	0.08	2	0.08
1	0.04	1	0.04	1	0.04
0	0	0	0	0	0

Below is a chart that provides grade point average equivalencies by 4 point category.

4 Point Grade Scales with Grade Points	
100-90	4.0
89-80	3.0



79-70	2.0
69-60	1.0
59 and below	0

## Limitations and Exclusions to Class Rank Calculation

The calculation of class rank shall exclude grades earned in the following:

1. High school grades earned prior to 9th grade by those in freshmen cohort class of 2018-2019.
2. Dual credit courses except those taken with prior written District approval.
3. Courses taken without District approval while enrolled in the District high school.

For more information, see Midlothian ISD Policy Online [EIC \(Local\)](#).

## Chapter 74 Courses for Weighted GPA [§74.12.2-4](#)

\*Only courses listed below are calculated in class rank and in weighted GPA

Chapter 74 Courses for Weighted GPA *only courses below are calculated in class rank and weighted GPA				
English				
PEIMS #	Course Name	Regular 1.0	Honors 1.10	Advanced 1.15
03231902	Advanced Broadcast Journalism III	X		
03230160	Advanced Journalism: Newspaper III	X		
03230130	Advanced Journalism: Yearbook III	X		
A3220100	AP English III			X
A3220200	AP English IV			X
13011600	Business English	X		
03220400	College English IV - ENGL 2311		X	
03220400	College English IV - ENGL 1301/1302		X	
03220400	College English IV - ENGL 2322 & 2323		X	
03220300	College English III - ENGL 1301/1302		X	
03221200	Creative Writing	X		
03240800	Debate III	X		
03220100/03220107	English I	X		
03200600	English I for Speakers of Other Languages	X		
03220100	English I Pre-AP		X	
03220200/03220207	English II	X		
03200700	English II for Speakers of Other Languages	X		
03220200	English II Pre-AP		X	
03220300	English III	X		
03220400	English IV	X		
03221600	Humanities	X		
03221800	Independent Study in English 1st time taken (UIL)		X	
03221800	Independent Study in English 1st time taken	X		
03231000	Independent Study in Journalism	X		
03241200	Independent Study in Speech - Debate IV	X		
03221500	Literary Genres	X		
03240400	Oral Interpretation III	X		
03241100	Public Speaking III	X		

03221100	Research & Technical Writing	X		
<b>Math</b>				
PEIMS #	Course Name	Regular 1.0	Honors 1.10	Advanced 1.15
13016700	Accounting II	X		
03102510	Advanced Quantitative Reasoning	X		
03100500/03100507	Algebra I	X		
03100600	Algebra II	X		
03100600	Algebra II Honors		X	
03102540	Algebraic Reasoning	X		
A3100101	AP Calculus AB			X
A3100102	AP Calculus BC			X
A3580110	AP Computer Science A			X
A3100200	AP Statistics			X
12701410	Applied Mathematics for Technical Professionals	X		
03102500	College Algebra - MATH 1314		X	
03102500	College Statistics - MATH 2342		X	
13037600	Digital Electronics	X		
03580370	Discrete Mathematics for Computer Science	X		
03102520	Discrete Mathematics for Problem Solving	X		
13036700	Engineering Mathematics	X		
13018000	Financial Mathematics	X		
03100700	Geometry	X		
03100700	Geometry Pre-AP		X	
03102500	Independent Study in Mathematics (UIL)		X	
13032950	Manufacturing Engineering Technology II	X		
13001000	Mathematical Applications in Ag, Food & Natural Resources	X		
03102400	Mathematical Models with Applications	X		
13020970	Mathematics for Medical Professionals	X		
03101100	Precalculus	X		
03101100	Precalculus - Honors		X	
13037050	Robotics II	X		
03580395	Robotics Programming and Design	X		
03102530	Statistics	X		
13016900	Statistics & Business Decision Making	X		
<b>Science</b>				
PEIMS #	Course Name	Regular 1.0	Honors 1.10	Advanced 1.15
13000700	Advanced Animal Science	X		
13002100	Advanced Plant and Soil Science	X		
13020600	Anatomy & Physiology	X		
A3010200	AP Biology			X
A3040000	AP Chemistry			X
A3020000	AP Environmental Science			X
A3050003	AP Physics			X
03030000	Aquatic Science	X		
03060100	Astronomy	X		
03010200/03010207	Biology	X		
03010200	Biology Pre-AP		X	
13036400	Biotechnology I	X		

13036450	Biotechnology II	X		
03040000	Chemistry	X		
03040000	Chemistry Pre-AP		X	
13020600	College Anatomy & Physiology - BIOL 2401/2402		X	
13037200	College Biology 1408/1409		X	
IHE11200	College Chemistry 1411/1412		X	
03060200	Earth & Space Science	X		
13037300	Engineering Design & Problem Solving	X		
13037500	Engineering Science	X		
03020000	Environmental Systems	X		
13023000	Food Science	X		
13029500	Forensic Science	X		
03060201	Integrated Physics and Chemistry	X		
13020700	Medical Microbiology	X		
13020800	Pathophysiology	X		
03050000	Physics	X		
03050000	Physics Honors		X	
13037100	Principles of Technology	X		
13037200	Scientific Research & Design	X		
<b>Social Studies</b>				
PEIMS #	Course Name	Regular 1.0	Honors 1.10	Advanced 1.15
A3310200	AP Economics			X
A3360100	AP Human Geography			X
A3330100	AP US Government			X
A3340100	AP US History			X
A3370100	AP World History			X
03310300	College Economics ECON 2301		X	
03330100	College US Government GOVT 2305		X	
03340100	College US History		X	
03310300	Economics	X		
03330100	US Government	X		
03340100/03340107	US History	X		
03320100	World Geography	X		
03320100	World Geography Honors		X	
03340400	World History	X		

## Program Opportunities

### AVID

Advancement Via Individual Determination, or AVID, is a program designed to provide support to students with the motivation and desire to go to college, and are the first generation in their family to aspire to a college degree. Candidates for the AVID program are capable of completing rigorous curriculum, but may not be reaching their full potential. AVID provides support by introducing and reinforcing study skills, organizational skills, and strategies to improve critical thinking skills. To be selected for and remain in the AVID program, participants MUST commit to taking at least one Pre-AP, Dual Credit, or an Advanced Placement course each year in order to begin their preparation to attend college after high school. Participants must also enroll in the AVID class and will receive elective credit for this state approved course.

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

Midlothian ISD Career and Technical Education (CTE) is based on the premise that a rigorous foundation contributes to success and that all students should be provided equal opportunities to succeed. Career and Technical Education provides competency-based applied learning that contributes to academic knowledge, higher order thinking skills, problem-solving skills, work attitudes, general employability skills, and occupationally specific skills needed for success in the workplace or in post-secondary education.

Students that have a clear direction for college and/or a career choice may participate in Career Clusters, which consist of a related series of courses that are grouped together by interest or skill set. Courses in these clusters are designed and sequenced to provide students with rigorous and relevant preparation for college and/or a career. A career cluster may include internships, work experience, and certifications as students progress through a coherent sequence of courses to attain a specific endorsement. To earn an endorsement, a student must complete at least 26 credits, completing the Foundation High School Program, a fourth credit in Mathematics, and additional credit in Science, a coherent sequence of courses in four or more credits in CTE that consists of at least two courses in the same career cluster and at least one advanced CTE course. The final course in the sequence must be selected from the career cluster chosen.

## **TSTC and Dual Enrollment**

Midlothian ISD partners with Texas State Technical College in Red Oak in order to offer selected CTE courses. Students would earn college credit while completing state elective courses that meet high school graduation requirements. Enrollment procedures include selection of courses through the high school campus as well as providing a high school transcript and shot records required by TSTC. Pathways offered to students include: Industrial Systems Mechanic Electrical Pathway, HVAC Technician Pathway, Diesel Equipment Technology Pathway, and Structural Welding Pathway. For full course information, including sequence and prerequisites, visit the academic course offerings section of this document. Dual enrollment courses through TSTC are offered at a reduced rate of \$33 per credit hour. Books and supplies may be an additional cost to the student. Midlothian ISD will provide transportation for students to the TSTC campus. Course offerings are subject to change due to factors such as low student interest in a pathway or scheduling conflicts with the student's high school based on the student's required courses for high school graduation.

## **Fine Arts**

Students who have talents and interests in fine arts programs will find a variety of programs of study to meet their needs. Midlothian ISD provides a robust selection of visual and performing arts opportunities, including a range of courses in art, band, choir, dance, and theater arts. Some courses within the MISD fine arts programs require audition and selection prior to registration for the class. Guidance counselors can assist students with selection of appropriate courses in their pursuit of passion in fine arts.

## **Advanced Academics**

### **Honors Courses**

Some advanced level courses are labeled as "Honors" courses. Honors level courses are taught at a different level of difficulty compared to the on level course. Students in Honors courses will be challenged in a variety of ways which may include: introduction to the content at a faster pace, depth and complexity in which the content is

taught, inquiry based learning, and critical thinking and analysis to solve problems. Any student may enroll in a course designated as Honors.

## **College Board Advanced Placement (AP) and Pre-Advanced Placement (Pre-AP)**

Advanced Placement courses are designed for highly motivated students. Courses are taught with a rigorous college level curriculum utilizing materials provided by College Board. Enrollment in these courses should be based on interest as well as ability since the curriculum requires more advanced and intensive work. There are no summer assignments or requirements for Pre-AP or Advanced Placement courses. Students in Advanced Placement courses should plan to take the Advanced Placement exam at the end of the course. Earning a score of 3 or higher on an Advanced Placement exam may provide the student with college credit for that course.

## **Dual Credit (DC) and Concurrent Enrollment**

Midlothian Independent School District and Navarro College have created a partnership to offer high school students educational programs and courses. Qualified students may be dually enrolled at MHS or MHHS and Navarro College. Students **MUST** meet the college readiness requirements as well as the Midlothian ISD standards to enroll (see below). Check the course description section of this document for a complete list of dual credit course offerings. Dual credit courses have the same requirements and expectations as those taught on any Navarro College campus. Students may take any combination of dual credit course offerings as long as the student is advised by the high school counselor to ensure prerequisites are met as well as college readiness requirements. Interested students should set up an appointment with a counselor to determine dual credit eligibility.

Students participating in dual credit and/or concurrent enrollment programs may receive high school as well as college credit for courses taken at the Navarro College campus during the summer, in the evenings, or in mini-mesters. However, students must have approval from their high school prior to taking these courses.

Students enrolled in either approved concurrent courses or approved dual credit courses will earn college credit and will have an official college transcript reflecting the work completed through Navarro College.

## **Associate Degree Program**

Eligible high achieving Midlothian ISD students have an opportunity to graduate from high school with a high school diploma AND an Associate's Degree from Navarro College. Students wishing to begin the associate degree program should start coursework in the 9<sup>th</sup> grade in order to effectively complete all requirements for both the associate degree and high school graduation requirements. Interested students should complete higher education admission requirements in the spring of their eighth grade year at their PGP meeting. Students must satisfactorily complete all MISD dual credit enrollment procedures outlined in the following sections.

Students pursuing an Associate's Degree (60 credit hours) may select up to 13 credit hours (5 courses) within those 60 hours that will apply to their field of study/major area of interest. It is important for students and parents to collaborate with both their high school counselor and the Navarro College advisor each semester to ensure that the student selects the appropriate courses for the degree/diploma.

Students may opt to attend summer classes at Navarro College in order to take other courses that meet the student's needs. It is critical that students seek guidance from their high school counselor prior to taking summer classes at the college. It is recommended that summer courses at Navarro not be taken until after the student completes his/her sophomore year. Failure to follow high school and college counseling recommendations can cause a student to risk graduating on time with the degree/diploma. Course offerings may vary by campus and

are subject to change in order to meet staffing, space, class size requirements and requirements of the THECB (Texas Higher Education Coordinating Board).

## Core Complete

Core complete courses are a set of courses in the Texas Common Course Numbering System equal to 42 hours. The Texas Common Course Numbering System (TCCNS) is a voluntary, co-operative effort among 139 Texas community colleges and universities to facilitate transfer of freshman and sophomore level general academic coursework. TCCNS provides a shared, uniform set of course designations for students and their advisors to use in determining both course equivalency and degree applicability of transfer credit on a statewide basis. When students transfer between two participating TCCNS institutions, a course taken at the sending institution transfers as the course carrying the same TCCNS designation at the receiving institution.

Students wishing to seek completion of the core complete should express interest to the high school counselor so he/she can effectively advise the student to create a plan of coursework that will accomplish successful completion of both high school graduation requirements and core complete courses.

Component Area	Required Semester Credit Hours
Communication	6 SCH
Mathematics	3 SCH
Life and Physical Science	6 SCH
Language, Philosophy and Culture	3 SCH
Creative Arts	3 SCH
American History	6 SCH
Government/Political Science	6 SCH
Social and Behavioral Sciences	3 SCH
Component Area Option	6 SCH

## Navarro Dual Credit Enrollment Requirements

As part of the Student Success Initiative, Texas state law requires that students be tested in the areas of reading, writing, and mathematics prior to enrolling in college courses. Listed below are acceptable dual credit admission tests for dual credit students set by the Texas Higher Education Coordinating Board.

### Navarro College Dual Credit Testing Requirements

Test	Score Explanation/Requirements
STAAR End-of-Course (EOC)	An English II EOC score of 4000 or higher shall waive for both the reading and writing sections of the TSI Assessment. An Algebra I EOC score of 4000 or higher and a passing grade in Algebra II shall waive for the mathematics section of the TSI Assessment.
PSAT/NMSQT	Minimum score of 510 on the math section and a minimum score of 460 on the Evidence-Based Reading and Writing (EBRW) test shall waive the TSI Assessment relevant to the courses to be attempted. (No combined score required).
ACT-ASPIRE	A scale score of 435 in English shall waive for both the reading and writing sections of the TSI Assessment. A scale score of 431 in Math shall waive for the math section of the TSI Assessment.
TSI Assessment	<b>TSIA 2.0 (New TSI Assessment: Beginning January 11, 2021)</b> <b>TSIA 2 Math College Ready Scores:</b> CRC 950-990 or CRC 910-949 <b>AND</b> Diagnostic Level 6 <b>TSIA 2 ELAR College Ready Scores:</b> CRC 945-990 <b>AND</b> Essay 5-8 or CRC 910-944 <b>AND</b> Diagnostic Level 5 – 6 <b>AND</b> Essay 5-8
ACT	A composite score of 23 with a minimum of 19 on the English test shall be exempt for both the reading and writing sections of the TSI Assessment, and/or 19 on the mathematics test shall be exempt for the mathematics section of the TSI Assessment.

SAT	A minimum score of 480 on the Evidenced-Based Reading and Writing (EBRW) test shall be exempt for both reading and writing sections of the TSI Assessment; a minimum score of 530 on the mathematics test shall be exempt for the mathematics section of the TSI Assessment. <i>There is no combined score.</i>
STAAR End-of-Course (EOC)	An English III EOC score of 4000 or higher exempt for both the reading and writing sections of the TSI Assessment. An Algebra II EOC score of 4000 or higher exempt for the mathematics section of the TSI Assessment.

❖ Students that have not met the acceptable dual credit tests (listed above) must take a College Placement Exam (TSI Assessment). Students who are exempt from one part of the placement test will be required to take the TSI Assessment in the other areas prior to enrolling for related college courses. *(NOTE: 9<sup>th</sup> & 10<sup>th</sup> grade students are required to take the TSI Assessment and be college ready in writing and reading prior to enrollment approval.)*

## Enrollment in Navarro College and Deadlines for Dual Credit

All proper applications and enrollment paperwork must be completed online before a student will be officially enrolled in a dual credit course at a Midlothian ISD high school. Please check with campus counselors for specific deadlines. There will be exceptions to this date for students that enroll in MISD after the deadline and these students will need to see their school counselor for further instructions.

Enrollment steps include:

1. Apply Texas Application & acceptance to Navarro College
2. Qualifying test scores
3. Completion of online dual credit enrollment form (including online parent permission form)
4. Payment of tuition. Tuition is set by the college and is subject to increase at the college's discretion and without notification of the school district. MISD dual credit students are charged a reduced dual credit tuition rate for fall and spring semester courses.

For more information, please visit [Navarro College's Dual Credit](#) page.

## Gifted and Talented Program (GT)

Students who are identified for GT services can choose to take Honors, Pre-AP or AP classes if they meet the recommended prerequisites. Teachers will differentiate the curriculum to meet the needs of their identified GT students.

# Credit Recovery and Acceleration Options

## Courses for Credit Through Texas Virtual School Network or TxVSN

Before consideration of taking a course through TxVSN can be made, students must see their counselor for eligibility for enrollment and complete the requirement documents. The Texas Virtual School Network (TxVSN) has been established as a method of distance learning that is networked throughout the state. Students may enroll in a TxVSN course to earn credit towards graduation. Enrollment requires payment of tuition, usually about \$250-\$400 per semester (subject to the TxVSN's pricing per course), and the courses offered are subject to the UIL provision "no pass, no play" rule. Grades earned in TxVSN classes are figured into the student's GPA according to EIC local. Student athletes seeking to play at the collegiate level must understand that NCAA may not accept the course. Additionally, a student who enrolls in a TxVSN course for which an end-of-course (EOC) assessment is required, the student must take the EOC and the requirements related to the incorporation of the EOC score into the student's final course grade for graduation still apply.

## **Credit by Exam (CBE) For Redemption**

A student who has received prior instruction in a course but did not receive credit for it may be permitted to earn credit by passing an exam on the essential knowledge and skills defined for the course. To receive credit, a student must score at least 70 on the exam. The district administration will determine whether any opportunity for credit by exam will be offered. Exams are from Texas Tech and students are responsible for all fees. Students must talk to their counselors prior to this order. The Credit by Exam option for gaining credit is NOT available for students who lost credit due to excessive absences.

## **Credit by Exam (CBE) For Original Credit**

A student will be permitted to take an exam to earn credit for an academic course for which the student has no prior instruction for the purpose of academic acceleration. The CBE results will be included in the student's weighted GPA if the course is listed in the Ch. 74 chart in this document and will be included in the student's 4 point GPA. CBE tests are given throughout the year and must be arranged through the student's high school counselor. When a student seeks to gain credit by exam without prior instruction in the course, the passing score required to earn credit on an exam is 80.

## **LEAP Academy**

The Midlothian ISD LEAP Academy's mission is to help students maximize their potential by providing an individualized, diverse learning environment empowering them to succeed. LEAP Academy is a non-traditional setting in which students work at an accelerated pace to complete courses for graduation. All students must meet the same academic and STAAR (EOC) requirements as other secondary school students. It is important to note that all students who complete their senior year through LEAP Academy will receive their high school diploma through MISD, but *will not walk* at the traditional graduation ceremony. Students seeking acceleration in regaining credits or who wish to pursue a nontraditional pathway to graduation may apply to become a LEAP Academy student.



# **Academic Course Offerings**

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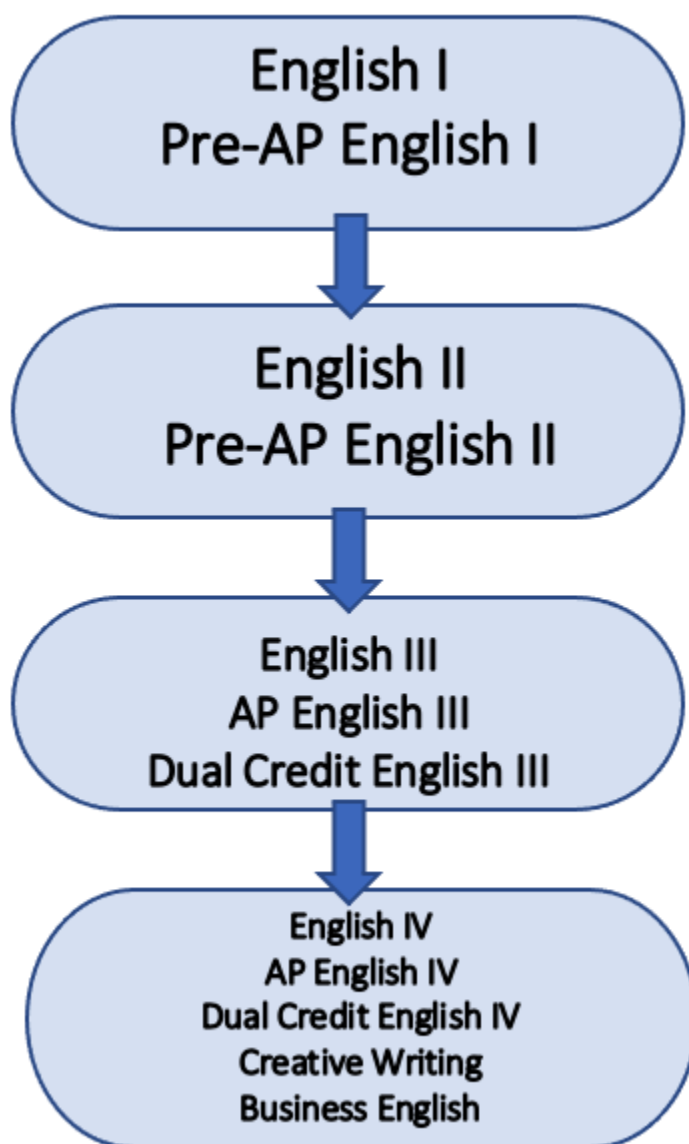
# English Course Sequence

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## **Course Sequence for English Language Arts**

All students must earn four credits in English to graduate on any graduation plan. Midlothian high schools offer several options for earning additional English credits for graduation.

Students who are seeking more challenging options in English should consider Dual Credit, Pre-AP, and Advanced Placement courses. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.



# English Courses

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## ENGLISH I

**Course: 1000 | PEIMS: 3220100**

**Grade Placement:** 9; 1 credit (CH. 74)

**Prerequisite:** None

English I offers an integrated approach to a variety of literature (poetry, drama, novels, short stories, and nonfiction) through which students apply language skills orally and in writing with an emphasis on the development of multi-paragraph writing, analysis of literature and introduction to the research process.

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## PRE-AP ENGLISH I

**Course: 1100 | PEIMS: 3220100**

**Grade Placement:** 9; 1 credit (CH. 74)

**Prerequisite:** None

Pre-AP English I provides in-depth studies of thematic literary units that combine poetry, drama, novels, short stories, and nonfiction. Higher-order thinking skills are stressed as students express themselves critically and creatively both orally and in writing. Motivation and an appreciation for literature are needed to be successful in this Pre-AP course, as students must extend their efforts to think critically, be creative, and spend quality time on assignments, both in and outside of class.

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## ENGLISH II

**Course: 1002 | PEIMS: 3220200**

**Grade Placement:** 10; 1 credit (CH. 74)

**Recommended Prerequisite:** English I, Pre-AP English I

This comprehensive course focuses on analyzing selected works of world literature in fiction, nonfiction, poetry, and drama, integrating grammar, composition, and vocabulary skills with rich reading

experiences. English II provides opportunities in both oral and written discourse.

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## PRE-AP ENGLISH II

**Course: 1102 | PEIMS: 3220200**

**Grade Placement:** 10; 1 credit (CH. 74)

**Recommended Prerequisite:** English I, Pre-AP English I

Stretching students' reading, writing, listening, speaking, and thinking skills, this in-depth study of world literature emphasizes critical and creative responses to works of fiction, nonfiction, poetry, and drama as it concurrently provides occasions and audiences for all types of expository discourse. Motivation and desire to reach a higher level of critical analysis of literature are needed to be successful in this Pre-AP class.

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## ENGLISH III

**Course: 1004 | PEIMS: 3220300**

**Grade Placement:** 11; 1 credit (CH. 74)

**Recommended Prerequisite:** English II, Pre-AP English II

Through representative readings from historical documents, essays, dramas, short stories, poetry, and novels, this course provides a survey of American literature that integrates the studies of grammar and vocabulary in meaningful writing experiences that stem from the core readings. A focal point of English III is the research project, a requirement that gives students firsthand experience at synthesizing information from a variety of sources.

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## AP ENGLISH III: ENGLISH LANGUAGE AND COMPOSITION

**Course: 1200 | PEIMS: A3220100**

**Grade Placement:** 11; 1 credit (CH. 74)

**Recommended Prerequisite:** English II, Pre-AP English II

The rigor of this course is equivalent to a college level class, which prepares students to complete the A. P. Language and Composition Examination in May. This course emphasizes the development and the application of extensive critical reading, writing, and thinking skills. Students will read, analyze, synthesize, and evaluate selected examples of American and English prose and poetry, focusing on nonfiction argumentation and stylistic and rhetorical strategies. Requirements include reading American literature from the AP suggested reading list and writing critical, analytical essays. Motivation and a desire to reach a higher level in critical analysis of literature are needed to be successful in this course. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

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**COLLEGE ENGLISH III: ENGL 1301/1302 COMP AND RHETORIC I & II**

**Course:** DC1304 | PEIMS: 3220300

**Grade Placement:** 11; 3 hours of college credit and 1/2 credit high school English III credit for each semester (CH. 74)

**Prerequisite:** Meet dual credit requirements, complete college registration process, proof of enrollment, paid tuition, purchase college textbook(s) and provide evidence to high school by deadline.

This course includes study of grammatical and rhetorical principles as applied in written composition; study of nature and function of language; and study of rhetorical modes such as description, narration, process, comparison, contrast, definition, classification, persuasion, argument, and critical review. Students will register and pay tuition to Navarro College and buy books for the class. Extensive outside reading and writing are required. Upon successful completion of this course, students dually earn their high school English III credit and six hours of college English credit that can be transferred to many colleges and universities. This is a college course and follows a college

syllabus, therefore grades are only required to be reported at mid-term and semester.

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**ENGLISH IV**

**Course:** 1005 | PEIMS: 3220400

**Grade Placement:** 12; 1 credit (CH. 74)

**Recommended Prerequisite:** English III or AP English III

This integrated study of English literature, composition, grammar, and vocabulary reinforces the critical reading and writing skills essential for college entrance. The course affords senior students opportunities to connect America's British roots to their contemporary world through various reading, writing, listening, speaking, and thinking activities.

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**AP ENGLISH IV - ENGLISH LITERATURE AND COMPOSITION**

**Course:** 1201 | PEIMS: A3220200

**Grade Placement:** 12; 1 credit (CH. 74)

**Recommended Prerequisite:** English III or AP English III

An intensive study of selected world and British literature, this course encourages seniors to make reading and writing connections that reinforce their analysis, application, and synthesis skills as they explore the human experience. A vast array of oral and written activities prepares the students for success on the AP Exam in English Literature and Composition given by the College Board in May for advanced college placement and/or credit. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

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**COLLEGE ENGLISH IV: ENGL 1301 & 1302 COMP AND RHETORIC I & II**

**Course:** DC1306 | PEIMS: 3220400

**Grade Placement:** 12; 3 lecture hours (3 college hours) and 1/2 high school credit English IV for each semester (CH. 74)

**Prerequisite:** Meet dual credit requirements, complete college registration process, proof of enrollment, paid tuition, purchase college textbook(s) and provide evidence to high school by deadline, and have earned credit for English III if these courses will be used to replace English IV.

Please see description above for dual credit English III 1301-1302 Comp and Rhetoric. High School credit will be for English IV for seniors taking this course with adjustments made in content to cover the TEKS for English IV such as British and world literature. Upon successful completion of this course, students dually earn their high school English IV credit and six hours of college English credit that can be transferred to many colleges and universities. This is a college course and follows a college syllabus, therefore grades are only required to be reported at mid-term and semester.

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#### **COLLEGE ENGLISH IV: ENGL 2322 & 2323 BRITISH LITERATURE**

**Course: DC1305 | PEIMS: 3220400**

**Grade Placement:** 12; Three lecture hours (3 hours college credit) and 1/2 high school credit English IV per semester. (CH. 74)

**Prerequisite:** Meet dual credit requirements, complete college registration process, proof of enrollment, paid tuition, purchase college textbook(s) and provide evidence to high school by deadline, and successful completion of dual credit English III 1301 and 1302.

A survey of significant works of British Literature from the Medieval to Restoration periods is covered in first semester (2322) and from Romantic to the present second semester (2323) Upon successful completion of this course, students dually earn their high school English IV credit and six hours of college English credit that can be transferred to many colleges and universities. Extensive outside reading and writing are required. This is a college course and follows a college syllabus, therefore grades are only required to be reported at mid-term and semester.

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#### **COLLEGE ENGLISH IV: ENGL 2311 TECHNICAL AND BUSINESS WRITING**

**Course: DC1310 | PEIMS: 3220400**

**Grade Placement:** 12; Three lecture hours (3 hours college credit) and 1/2 high school credit English IV. (CH. 74)

**Prerequisite:** Meet dual credit requirements, complete college registration process, proof of enrollment, paid tuition, purchase college textbook(s) and provide evidence to high school by deadline, and successful completion of dual credit English III 1301 and 1302.

Intensive study of and practice in professional settings. Focus on the types of documents necessary to make decisions and take action on the job, such as proposals, reports, instructions, policies and procedures, email messages, letters and descriptions of products and services. Practice individual and collaborative processes involved in the creation of ethical and efficient documents.

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#### **CREATIVE WRITING**

**Course: 1007 | PEIMS: 3221200**

**Grade Placement:** 12; 1 credit (Can take the place of English IV) (CH. 74)

**Recommended Prerequisite:** English I, II, and III

In this course, students will develop many writing strategies useful across the curriculum. All students are expected to demonstrate understanding of the recursive nature of the writing process, effectively applying the conventions of usage and the mechanics of written English.

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#### **BUSINESS ENGLISH**

**Course: 8306 | PEIMS: 13011600**

**Grade Placement:** 12; 1 credit (Can take the place of English IV) (CH. 74)

**Recommended Prerequisite:** English III

In Business English, students enhance communication and research skills by applying them to the business environment, in addition to exchanging information and producing properly formatted business documents using emerging technology.

# English Electives

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## **BUSINESS ENGLISH**

**Course: 8306 | PEIMS: 13011600**

**Grade Placement:** 12; 1 credit (Can take the place of English IV) (CH. 74)

**Recommended Prerequisite:** English III

In Business English, students enhance communication and research skills by applying them to the business environment, in addition to exchanging information and producing properly formatted business documents using emerging technology.

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## **CREATIVE WRITING**

**Course: 1007 | PEIMS: 3221200**

**Grade Placement:** 12; 1 credit (Can take the place of English IV) (CH. 74)

**Recommended Prerequisite:** English I, II, and III

In this course, students will develop many writing strategies useful across the curriculum. All students are expected to demonstrate understanding of the recursive nature of the writing process, effectively applying the conventions of usage and the mechanics of written English.

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## **COLLEGE PREPARATORY COURSE ELAR**

**Course: 9806 | PEIMS: CP110100**

**Grade Placement:** 12; 1 elective credit

**Prerequisite:** English III

This class helps students get ready for college level coursework in reading and writing and prepares them for the Texas Success Initiative (TSI) exam, which Texas public colleges and universities use to access college readiness. Incoming seniors who do not meet college ready benchmarks for Reading on

EOC, PSAT and/or SAT may be placed. This course may be embedded in an English IV course.

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## **HONORS INDEPENDENT STUDIES IN ENGLISH FIRST TIME TAKEN (ACADEMIC UIL TEAM)**

**Course: 1013 | PEIMS: 03221800**

**Grade Placement:** 11 - 12; 1 credit

**Prerequisites:** None. (CH. 74)

*Students may repeat this course with different course content for additional credits. This course can substitute for the fourth year of high school English credit required for graduation.*

This course offers a student who wants advanced work in English language arts and reading an opportunity for specialized study. Academic UIL readiness and participation is emphasized as the student works on independent projects under the direction of an English teacher. Students enroll in the course with the understanding that academic UIL participation is expected.

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## **DEBATE I**

**Course: 1039 | PEIMS: 3240600**

**Grade Placement:** 9 -12; 1 credit

**Prerequisite:** Course application

This course involves attendance at weekend debate tournaments. Course is an introduction to debate skills including analysis, logical and critical thinking, case construction, and speaking skills. Includes Cross Examination, debate and Lincoln Douglas debate in preparation for competition. Debate students are required to participate in tournaments, which are usually held on the weekends.

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## DEBATE II

Course: 1040 | PEIMS: 3240700

**Grade Placement:** 10 -12; 1 credit

**Prerequisite:** Course application

This course involves attendance at weekend debate tournaments. Course is an introduction to debate skills including analysis, logical and critical thinking, case construction, and speaking skills. Includes Cross Examination, debate and Lincoln Douglas debate in preparation for competition. Debate students are required to participate in tournaments, which are usually held on the weekends.

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## DEBATE III

Course: 1041 | PEIMS: 3240800

**Grade Placement:** 11-12; 1 credit (CH. 74)

**Prerequisite:** Course application

This course involves attendance at weekend debate tournaments. Course is an introduction to debate skills including analysis, logical and critical thinking, case construction, and speaking skills. Includes Cross Examination, debate and Lincoln Douglas debate in preparation for competition. Debate students are required to participate in tournaments, which are usually held on the weekends.

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## INDEPENDENT STUDIES IN SPEECH - DEBATE IV

Course: 1045 | PEIMS: 3241200

**Grade Placement:** 12; 1 credit (Can take the place of English IV) (CH. 74)

**Prerequisite:** Course application

This course involves attendance at weekend debate tournaments. Course is an introduction to debate skills including analysis, logical and critical thinking, case construction, and speaking skills. Includes Cross Examination, debate and Lincoln Douglas debate in preparation for competition. Debate students are required to participate in tournaments, which are usually held on the weekends.

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## VISUAL MEDIA ANALYSIS AND PRODUCTION

Course: 1012 | PEIMS: 3221700

**Grade Placement:** 9 - 12; .5 credit

**Prerequisite:** None

In this course, students will interpret various media forms for a variety of purposes. In addition, students will critique and analyze the significance of visual representations and learn to produce media messages that communicate with others.

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## ADVANCED JOURNALISM: NEWSPAPER I

Course: 1023 | PEIMS: 03230140

**Grade Placement:** 10-12; 1 credit.

**Prerequisite:** Course Application

This course will cover the elements and process of print production, writing, editing, advertising, layout and distribution of school newspaper.

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## ADVANCED JOURNALISM: NEWSPAPER II

Course: 1024 | PEIMS: 03230150

**Grade Placement:** 10-12; 1 credit.

**Prerequisite:** Advanced Journalism: Newspaper I

This course will cover the elements and process of print production, writing, editing, advertising, layout and distribution of school newspaper.

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## ADVANCED JOURNALISM: NEWSPAPER III

Course: 1025 | PEIMS: 03230160 (CH. 74)

**Grade Placement:** 10-12; 1 credit.

**Prerequisite:** Advanced Journalism: Newspaper II

This course will cover the elements and process of print production, writing, editing, advertising, layout and distribution of school newspaper.

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## ADVANCED JOURNALISM: YEARBOOK I

Course: 1020 | PEIMS: 03230110

**Grade Placement:** 10-12; 1 credit.

*Prerequisite: Course Application*

This course includes the study and application of the elements and processes of developing and producing the school yearbook. Students are expected to attend a summer workshop.

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**ADVANCED JOURNALISM: YEARBOOK II**

**Course: 1021 | PEIMS: 03230120**

**Grade Placement:** 10-12; 1 credit.

**Prerequisite:** *Advanced Journalism: Yearbook I, Course Application*

This course includes the study and application of the elements and processes of developing and producing the school yearbook. Students are expected to attend a summer workshop.

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**ADVANCED JOURNALISM: YEARBOOK III**

**Course: 1022 | PEIMS: 03230130 (CH. 74)**

**Grade Placement:** 11-12; 1 credit

**Prerequisite:** *Advanced Journalism: Yearbook II, Course Application*

This course includes the study and application of the elements and processes of developing and producing the school yearbook. Students are expected to attend a summer workshop.



# Mathematics Course Sequence

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## **COURSE SEQUENCE IN MATHEMATICS**

Students are urged to review the prescribed four-year sequences for mathematics. The study of mathematics is more sequential than almost any other subject area studied in high school. The Texas Education Code requires all students to have earned credit for Algebra I before enrolling in any other high school math course. Because of the sequential nature of mathematical facts and concepts, it is imperative that students and parents understand the importance of the Algebra I requirement and other math prerequisites. A student should successfully complete each prerequisite before enrolling in a subsequent mathematics course.

Students who earned credit for Algebra I in grade eight must complete three additional credits of mathematics on the Midlothian high school campuses during grades nine through twelve. In order to graduate with the Distinguished Level of Achievement diploma, these students will need four full years of high school math credit, and they must have completed Algebra II.

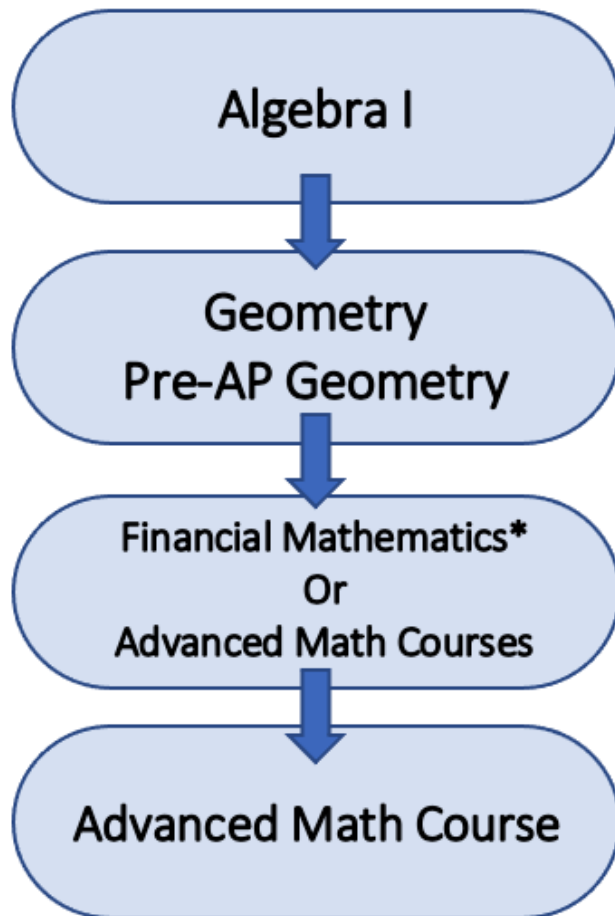
Students who seek to take more challenging courses in mathematics should consider taking Dual Credit, PreAP, and AP courses. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

## **COLLEGE ENTRANCE REQUIREMENTS RELATED TO MATHEMATICS**

In the area of mathematics, college entrance requirements vary. Some universities require that the student have high school credit in Algebra I, Geometry, Algebra II, and Precalculus. Others require that students to have credits in Algebra I, Geometry, and Algebra II. Community colleges usually require two years credit in mathematics. Students should check their identified college(s) to ensure they take the math courses required for admission along with meeting high school graduation requirements. As students become more definite about the college/university they will attend, students should check current admission requirements for mathematics, both for general admission purposes and for the degree they intend to pursue.

# Mathematics Course Sequence

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## **IMPORTANT:**

Students who take high school math courses in middle school must take a minimum of 3 additional math courses in high school. To ensure students are college and career ready, students are strongly encouraged to take 4 years of math in high school.

\* Algebra I and Geometry may be

## **ADVANCED MATH COURSES:**

Applied Math for Technical Professionals  
Mathematical Models with Applications  
Algebraic Reasoning  
Algebra II or Honors Algebra II  
Financial Math  
Honors Pre-calculus  
AP Calculus AB  
AP Statistics  
DC Algebra  
DC Statistics  
AP Computer Science  
Independent Studies in Mathematics

\*This course is not an advanced math and does not meet NCAA eligibility for student-athletes

# Mathematics Courses

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## ALGEBRA I

**Course: 2000 | PEIMS: 3100500**

**Grade Placement:** 9; 1 credit (CH. 74)

**Prerequisite:** Successful completion of 8th Grade Mathematics

*A student may not be enrolled in another math course until credit has been earned for Algebra I, according to TEC Chapter 74.11(j) and Chapter 74.71(k).*

Algebra is a course in which students develop algebraic thinking and symbolic reasoning skills. Students study relationships among quantities, with an emphasis on linear, quadratic, and exponential functions. Students will learn to use a variety of representations (concrete, numerical, algorithmic, and graphical) to represent meaningful mathematical situations. A strong foundation in eighth grade math is essential to success in Algebra I.

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## GEOMETRY

**Course: 2003 | PEIMS: 3100700**

**Grade Placement:** 9-11; 1 credit (CH. 74)

**Prerequisite:** Can be taken concurrently with Algebra I

Students develop spatial reasoning and geometric thinking skills in Geometry. Students will analyze geometric figures, both two- and three-dimensional, and their properties. Students will apply concepts of congruence, similarity, and measurement in problem solving.

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## APPLIED MATHEMATICS FOR TECHNICAL PROFESSIONALS

**Course: 9604 | PEIMS: 12701410**

**Grade Placement:** 9-11; 1 credit (CH. 74)

**Prerequisite:** Successful completion of Algebra I

Applied Mathematics for Technical Professionals uses problem-solving situations, hands-on activities, and technology to extend mathematical thinking and engage student reasoning. Situations relating to technical applications provide students opportunities to make connections with mathematics and the workplace. In addition, students will learn the skills necessary to communicate using mathematics. Hands-on activities will allow students to model, explore, and develop abstract concepts applicable to technical careers.

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## PRE-AP GEOMETRY

**Course: 2101 | PEIMS: 3100700**

**Grade Placement:** 9-11; 1 credit (CH. 74)

**Prerequisite:** Can be taken concurrently with Algebra I

Students in Pre-AP Geometry require a very strong Algebra I background. They will study the geometry topics in more depth and/or at an accelerated pace. This allows for a more extensive study of the axioms and theorems. Students will further analyze geometric relationships, verify conjectures and justify statements in proofs.

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## MATHEMATICAL MODELS WITH APPLICATIONS

**Course: 2005 | PEIMS: 3102400**

**Grade Placement:** 10-12; 1 credit (CH. 74)

**Prerequisite:** Successful Completion of Algebra I

Mathematical Models with Applications is designed to build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I. This mathematics course provides a path for students to succeed in Algebra II and prepares them for various post-secondary choices. Students learn to apply mathematics through experiences in personal finance, science, engineering, fine arts, and social

sciences. Students use algebraic, graphical, and geometric reasoning to recognize patterns and structure, model information, solve problems, and communicate solutions. Students will select from tools such as physical objects; manipulatives; technology, including graphing calculators, data collection devices, and computers; and paper and pencil and from methods such as algebraic techniques, geometric reasoning, patterns, and mental math to solve problems.

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### **ALGEBRAIC REASONING**

**Course: 2012 | PEIMS: 3102540**

**Grade Placement:** 10-12; 1 credit (CH. 74)

**Prerequisite:** Successful completion of Algebra I

Algebraic Reasoning is intended to strengthen students' understanding of algebraic concepts in preparation for Algebra II. Students will broaden their knowledge of functions and relationships, including linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value, and logarithmic functions. Students will study these functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build workforce and college readiness.

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### **ALGEBRA II**

**Course: 2002 | PEIMS: 3100600**

**Grade Placement:** 10-12; 1 credit (CH. 74)

**Prerequisite:** Successful completion of Algebra I

Algebra II requires a strong background in Algebra I. An in-depth study of functions, including linear, quadratic, exponential, logarithmic, rational, and radical, provides students with a means for analyzing and understanding a broad variety of relationships in meaningful contexts. It is recommended that each student have home access to a graphing calculator to complete homework assignments since a calculator is provided only for classroom use.

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### **HONORS ALGEBRA II**

**Course: 2100 | PEIMS: 3100600**

**Grade Placement:** 10-11; 1 credit (CH. 74)

**Prerequisite:** Successful completion of Algebra I and Geometry

In addition to the topics in Algebra II being studied in more depth and/or at an accelerated pace, the student will begin the study of Pre-Calculus, allowing for a more extensive study of matrices, sequences and series, and probability. This is a rigorous course and requires daily homework and study. Because the graphing calculator is used extensively, it is recommended that each student have access to a graphing calculator to complete homework assignments.

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### **FINANCIAL MATHEMATICS**

**Course: 8508 | PEIMS: 13018000**

**Grade Placement:** 10-12; 1 credit (CH. 74)

**Prerequisite:** Successful completion of Algebra I  
*This is a CTE course that will satisfy a high school math graduation requirement.*

This course is designed to integrate personal financial education, career discovery, postsecondary education planning, and reality-based math with critical thinking, problem solving, team building, and project based learning. It is challenging and engaging, offering students a comprehensive view of real life, including credit-card debt, health care options, income tax preparation, retirement planning, etc.

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### **PRE-CALCULUS**

**Course: 2004 | PEIMS: 3101100**

**Grade Placement:** 11-12; 1 credit (CH. 74)

**Prerequisite:** Successful completion of Algebra I, Geometry and Algebra II

Pre-calculus provides students with opportunities to explore higher-level mathematics and prepare for the rigors of college mathematics, but may not prepare them for Calculus AP. Students use reasoning skills to extend their understanding of the polynomial and rational function studies in algebra

and explore trigonometric functions. Students describe characteristics and perform transformations on a variety of parent functions and solve meaningful problems that involve conic sections, sequences and series, and vector analysis.

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### **HONORS PRE-CALCULUS**

**Course: 2102 | PEIMS: 3101100**

**Grade Placement:** 11-12; 1 credit (CH. 74)

**Prerequisite:** Successful completion of Algebra I, Geometry and Algebra II

In addition to studying the topics from Pre-Calculus in more depth and/or at an accelerated pace, the students will begin the study of Calculus. This will allow for a more extensive study of parametric equations as it relates to motion in a plane and trigonometric graphing. In addition, students will expand the concept of limits from sequences to functions. Students will find that they are much more successful and able to complete homework assignments if they own their own graphing calculator.

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### **AP CALCULUS AB**

**Course: 2200 | PEIMS: A3100101**

**Grade Placement:** 12; 1 credit (CH. 74)

**Recommended Prerequisite:** successful completion of Pre-AP Pre-Calculus

The topics of study for calculus are functions, graphs and limits, derivatives and their applications, and integrals and their applications. Students will work with functions represented in a variety of ways: graphical, numerical, analytical, or verbal. They will understand the connections between these representations. A graphing calculator is used extensively to complete homework assignments. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

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### **AP STATISTICS**

**Course: 2202 | PEIMS: A3100200**

**Grade Placement:** 12; 1 credit (CH. 74)

**Recommended Prerequisite:** successful completion of Geometry, Algebra II, and Pre-Cal or concurrent enrollment in Pre-Cal

This course will introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. It is equivalent to a one semester, introductory, non-calculus-based college course in statistics. Graphing calculators are needed for homework. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

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### **COLLEGE ALGEBRA: MATH 1314**

**Course: DC2300 | PEIMS: 3102500**

**Grade Placement:** 11-12; .5 credit (CH. 74)

**Prerequisite:** Meet dual credit requirements, complete college registration process, proof of enrollment, paid tuition, purchase college textbook(s) and provide evidence to high school by deadline, and successful completion of Algebra II

This course meets degree requirements for the first 3 hours of college math for most majors and provides a foundation for further studies in math or science. Topics include linear equations and inequalities, second-degree relations and functions, polynomial, rational, exponential, and logarithmic functions. This may count as a 4th year math so students will need to commit to both semesters to complete math requirements. Taken during fall semester. Three hours of college math credit will be earned that could be accepted by many colleges. *Students who take this class will also need to take dual credit Statistics (see below) in order to earn credit for a full year of high school math.* This is a college course and follows a college syllabus, therefore grades are only required to be reported at mid-term and semester.

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### **COLLEGE STATISTICS: MATH 1342**

**Course: DC2301 | PEIMS: 3102500**

**Grade Placement:** 11-12; .5 credit (CH. 74)

**Prerequisite:** Meet dual credit requirements, complete college registration process, proof of enrollment, paid tuition, purchase college

*textbook(s) and provide evidence to high school by deadline, and successful completion of MATH 1314 (College Algebra)*

This course may meet degree requirements for the second 3 hours of college math for most majors and provides a foundation for further studies in math or science. It includes presentation and interpretation of data, probability, sampling, correlation, regression, analysis of variance, and use of statistical software. Taken during spring semester. Three hours of college math credit will be earned that could be accepted by many colleges. Students who take this class will also need to take dual credit Algebra (see above) in order to earn credit for a full year of high school math. This is a college course and follows a college syllabus, therefore grades are only required to be reported at mid-term and semester.

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### **COLLEGE PREPARATORY COURSE IN MATHEMATICS**

**Course: 9807 | PEIMS: CP111200**

**Grade Placement:** 12; 1 elective credit

**Prerequisites:** None

This class helps students get ready for college level coursework in mathematics and prepares them for the Texas Success Initiative (TSI) exam, which Texas public colleges and universities use to access college readiness. Incoming seniors who do not meet college ready benchmarks for Mathematics on EOC, PSAT and/or SAT may be placed. This course is embedded in Financial Mathematics.

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### **HONORS INDEPENDENT STUDIES IN MATHEMATICS (UIL)**

**Course: 2006 | PEIMS: 3102500**

**Grade Placement:** 11 - 12; .5-1 elective credit (CH. 74)

**Prerequisites:** Geometry and Algebra II. Students may repeat these courses with different course content for additional credits. This course can substitute as an upper level math course to meet high school graduation requirements

This course offers a student who wants advanced work in mathematics an opportunity for specialized study. Academic UIL readiness and participation is emphasized as the student works on independent projects under the direction of a math teacher. Students enroll in the course with the understanding that academic UIL participation is expected.

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### **AP COMPUTER SCIENCE A**

**Grade Placement:** 10 - 12; This course is only 1 hour during the school day, but earns 2 credits: (1 Math & 1 LOTE) **Prerequisite:** Required Algebra I; Recommended Computer Science I and Algebra II

#### **Math**

**Course: 2203 | PEIMS: A3580110 (CH. 74)**

Students will learn about the computing tools that are used every day. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will learn the problem-solving and reasoning skills that are the foundation of computer science. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

#### **LOTE**

**Course: 5308 | PEIMS: A3580120**

Students will learn about the computing tools that are used every day. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will learn the problem-solving and reasoning skills that are the foundation of computer science.

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### **MATHEMATICAL APPLICATIONS IN AG, FOOD AND NATURAL RESOURCES**

**Course: 8011 | PEIMS: 13001000**

**Grade Placement:** 10-12, 1 credit (CH. 74)

**Recommended prerequisite:** Algebra 1

In this course, students will apply knowledge and skills related to mathematics, including algebra, geometry, and data analysis in the context of agriculture, food, and natural resources. To prepare

for careers in agriculture, food, and natural resources, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics



# Science Course Sequence

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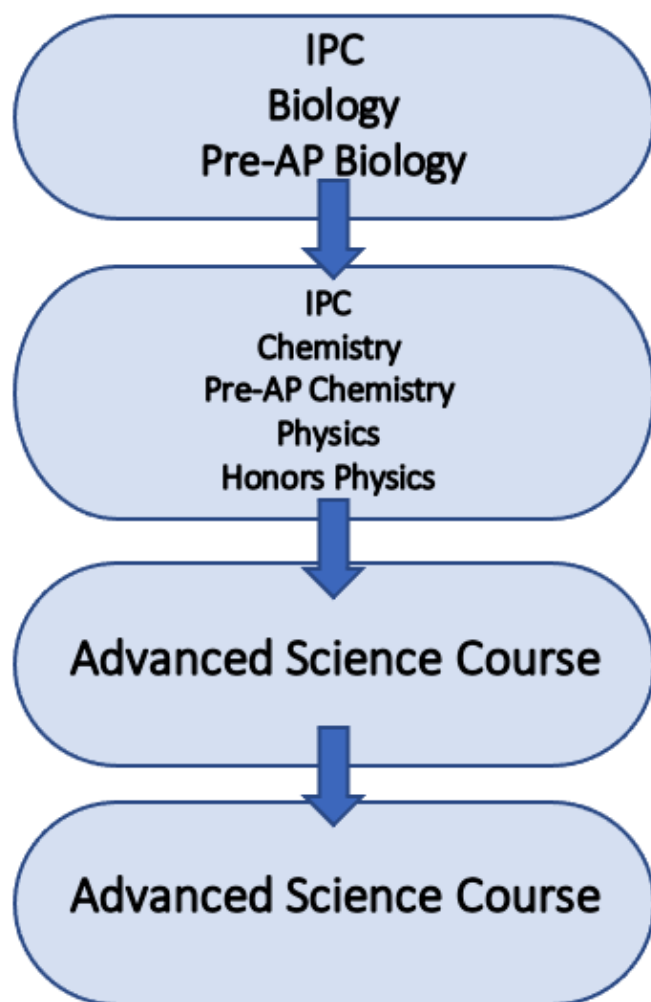
## COURSE SEQUENCES IN SCIENCE

All students must earn three credits in science to graduate on the Foundation High School Program. A student wishing to earn an endorsement and/or the Distinguished Level of Achievement must earn a 4th credit in science. All students must earn credit for Biology. Students may choose whether they take Integrated Physics and Chemistry (IPC) or another advanced science course. Midlothian high schools offer several options for earning additional science credits for graduation.

Students who seek a more challenging science education should consider Dual Credit, PreAP, and AP classes. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

## SCIENCE LABORATORY REQUIREMENTS

All science curricula are designed to teach scientific methodology with a minimum of 40% of the time spent in laboratory preparation, exploration, experimentation, and application.



## ADVANCED SCIENCE COURSES:

Earth Space and Science  
Forensic Science  
Aquatic Science  
Astronomy  
Advanced Plant & Soil Science  
Medical Microbiology  
Advanced Animal Science  
AP Physics  
AP Chemistry  
AP Biology  
AP Environmental Science  
DC Anatomy & Physiology  
DC Biology  
DC Chemistry



# Science Courses

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## BIOLOGY

**Course: 3000 | PEIMS: 3010200**

**Grade Placement:** 9 or 10; 1 credit (CH. 74)

**Prerequisite:** None

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.

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## PRE-AP BIOLOGY

**Course: 3100 | PEIMS: 3010200**

**Grade Placement:** 9 or 10; 1 credit (CH. 74)

**Prerequisite:** None

This course is designed for the highly motivated student and utilizes content and activities that stress higher level thinking skills. It provides an intensified study of the nature of life, the progression of life processes, and the continuity of life. Other units of study will include genetic continuity, comparative life processes, and ecological relationships. Students will develop sophisticated, manipulative laboratory skills.

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## INTEGRATED PHYSICS AND CHEMISTRY (IPC)

**Course: 3008 | PEIMS: 3060201**

**Grade Placement:** 9 or 10; 1 credit (CH. 74)

**Prerequisite:** None

In Integrated Physics and Chemistry, students conduct field and laboratory investigations, use

scientific methods during investigations, and make informed decisions using critical-thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry in the following topics: motion, waves, energy transformations, properties of matter, changes in matter and solution chemistry. IPC is recommended for students who earn below 80 in Algebra I.

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## CHEMISTRY I

**Course: 3004 | PEIMS: 3040000**

**Grade Placement:** 10-12; 1 credit (CH. 74)

**Prerequisite:** Successful completion of one unit of high school science and Algebra I. Suggested successful completion of (or concurrent enrollment in) the second year of high school math.

Chemistry is a math-based science class in which students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Topics include atomic structure and the periodic table, chemical names and formulas, chemical reactions, thermochemistry, gas laws, bonding, solutions and acid base chemistry.

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## PRE-AP CHEMISTRY I

**Course: 3101 | PEIMS: 3040000**

**Grade Placement:** 10-12; 1 credit (CH. 74)

**Prerequisite:** Successful completion of one unit of high school science and Algebra I. Suggested successful completion of (or concurrent enrollment in) Algebra II.

This math-based course is a faster-paced, more intensive presentation of the theories and concepts studied in Chemistry. Additional emphasis is placed on mathematical relationships and problem solving skills. Pre-AP Chemistry is designed and recommended for students who wish to prepare for

AP Chemistry, for those who plan on taking additional advanced science courses in high school and for those who plan to major in science, medicine/veterinary science, math, or engineering in college.

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## PHYSICS

**Course: 3005 | PEIMS: 3050000**

**Grade Placement:** 11-12; 1 credit (CH. 74)

**Recommended Prerequisites:** Successful completion of Algebra II or concurrent enrollment in Algebra II.

In physics, students conduct field and laboratory investigations, use scientific methods, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: laws of motion; changes within physical systems and conservation of energy and momentum; force; thermodynamics; characteristics and behavior of waves; and quantum physics. This course provides students with a conceptual framework, factual knowledge, and analytical and scientific skills.

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## HONORS PHYSICS

**Course: 3102 | PEIMS: 3050000**

**Grade Placement:** 11-12; 1 credit (CH. 74)

**Recommended Prerequisites:** Successful completion of Algebra I, Biology, and Chemistry

Pre-AP Physics extends and deepens the topics covered in Physics and may include research activities in preparation for Advanced Placement Physics. In Pre-AP Physics, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: laws of motion; changes within physical systems and conservation of energy and momentum; forces; thermodynamics; characteristics and behavior of waves; and atomic, nuclear, and quantum physics. Students who successfully complete Physics will acquire factual knowledge within a conceptual framework, practice experimental design and interpretation, work

collaboratively with colleagues, and develop critical thinking skills.

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## EARTH AND SPACE SCIENCE

**Course: 3007 | PEIMS: 3060200**

**Grade Placement:** 11 - 12; 1 credit (CH. 74)

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

This course is designed to build on students' prior scientific and academic knowledge and skills to develop understanding of Earth's system in space and time.

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## FORENSIC SCIENCE

**Course: 9103 | PEIMS: 13029500**

**Grade Placement:** 11 - 12; 1 credit (CH. 74)

**Prerequisites:** Biology AND Chemistry  
**Recommended prerequisite or corequisite:** any Law, Public Safety, Corrections, and Security Career Cluster course. Students must meet the 40% laboratory and fieldwork requirement.  
*This is a CTE course that will satisfy a high school science graduation requirement.*

This course uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide and the psychology of criminal behavior. Student will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies, simulated crime scenes and laboratory applications such as fingerprint analysis, ballistics, blood spatter analysis and DNA. Students will learn the history, legal aspects, and career options for forensic science.

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## AQUATIC SCIENCE

**Course: 3003 | PEIMS: 3030000**

**Grade Placement:** 11-12; 1 credit (CH. 74)

**Prerequisite:** Required successful completion of Biology. Suggested successful completion of Chemistry or concurrent enrollment in Chemistry.

In Aquatic Science, 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: components of an aquatic ecosystem; relationships among aquatic habitats and ecosystems; roles of cycles within an aquatic environment; adaptations of aquatic organisms; changes within aquatic environments; geological phenomena and fluid dynamics effects; and origin and use of water in a watershed.

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## ASTRONOMY

**Course:** 3006 | **PEIMS:** 3060100

**Grade Placement:** 11-12; 1 credit (CH. 74)

**Recommended Prerequisite:** Two years of high school science

Students will study topics including scientific theories of the evolution of the universe, characteristics and the life cycle of stars, exploration of the universe, role of the Sun and the solar system, and the orientation and placement of Earth.

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## MEDICAL MICROBIOLOGY

**Course:** 8709 | **PEIMS:** 13020700

**Grade Placement:** 11-12; 1 credit (CH. 74)

**Prerequisite:** Successful completion of prior lab science courses and recommended completion of three credits of science.

*This is a CTE course that will satisfy a high school science graduation requirement.*

Microbiology is the science and study of microorganisms and their effect on the human body. This course will include Pathophysiology, which is the study of disturbance of normal mechanical, physical, and biochemical functions, either by disease or other conditions.

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## FOOD SCIENCE

**Course:** 8815 | **PEIMS:** 13023000

**Grade Placement:** 11-12, 1 credit (CH. 74)

**Prerequisite:** Three units of science, including Chemistry and 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, the underlying food processing, and the improvement of foods for the consuming public. Students must meet the 40% laboratory and fieldwork requirement. This course satisfies a high school science graduation requirement.

*(Only offered at The MILE)*

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## ADVANCED ANIMAL SCIENCE

**Course:** 8007 | **PEIMS:** 13000700

**Grade Placement:** 11-12, 1 credit (CH. 74)

**Prerequisite:** Biology and Chemistry or Integrated Physics and Chemistry (IPC); Algebra I and Geometry; and either Small Animal Management, Equine Science, or Livestock Production. Students must meet the 40% laboratory and fieldwork requirement.

*This is a CTE course that will satisfy a high school science graduation requirement.*

A course designed to examine the scientific and technological dimensions of resources necessary for animal production. Students examine and compare animal anatomy and physiology in livestock species. If certain requirements are met, this course may count as 4<sup>th</sup> science the student's senior year. This class meets off-campus at the MISD Ag. Barn. Students must provide their own transport to class.

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## ADVANCED PLANT AND SOIL SCIENCE

**Course:** 8034 | **PEIMS:** 13002100

**Grade Placement:** 11 - 12; 1 credit (CH. 74)

**Recommended prerequisites:** *Biology, Integrated Physics and Chemistry, Chemistry, or Physics and a minimum of one credit from the courses in the Agriculture, Food, and Natural Resources Career Cluster. Students must meet the 40% laboratory and fieldwork requirement.*

*This is a CTE course that will satisfy a high school science graduation requirement.*

Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. To prepare for careers in plant and soil science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to plant and soil science and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

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## AP PHYSICS

**Course: 3205 | PEIMS: A3050003**

**Grade Placement:** 11-12; 1 credit (CH. 74)

**Recommended Prerequisite:** *Successful completion of Algebra II, Pre-AP or Regular Chemistry and concurrent enrollment in or completion of Pre-AP PreCalculus (exceptions require a committee decision)*

Physics AP is an introductory course in physics that will cover a wide variety of topics including mass and charge of particles, field forces, and classical physics including Newtonian mechanics, momentum, energy, torque, fundamental forces, rotational motion, conservation laws, periodic motion, and waves. Physics 1 AP is a course that would be taken by students who are planning to major in the life sciences, medicine, or engineering. Students who are majoring in a non-science program with a science component may take this course. These students could earn one semester of college credit for this course based on their AP

exam scores. Engineering majors will be less likely to receive college credit for the course but will obtain an excellent foundation for physics in engineering. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

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## AP CHEMISTRY

**Course: 3202 | PEIMS: A3040000**

**Grade Placement:** 11-12; 1 credit (CH. 74)

**Prerequisite:** *Successful completion of Biology or Pre-AP Biology, Algebra II, and Pre-AP or regular Chemistry*

This course is designed to be the equivalent of the general chemistry course usually taken during the first college year. Content adheres to the requirements prescribed by The College Board. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

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## AP BIOLOGY

**Course: 3200 | PEIMS: A3010200**

**Grade Placement:** 11-12; 1 credit (CH. 74)

**Recommended Prerequisite:** *Successful completion of Biology or Pre-AP Biology, Algebra II, and Pre-AP or regular Chemistry*

Advanced Placement Biology will include topics regularly covered in college biology and aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. This course is designed to prepare students to take the AP Biology examination. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

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## AP ENVIRONMENTAL SCIENCE

**Course: 3201 | PEIMS: A3020000**

**Grade Placement:** 11-12; 1 credit (CH. 74)

**Recommended Prerequisites:** Successful completion of two credits of high school laboratory science recommended.

The goal of AP Environmental Science is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

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### **COLLEGE ANATOMY AND PHYSIOLOGY OF HUMAN SYSTEMS: BIOL 2401/2402**

**Course: DC3300 | PEIMS: 13020600**

**Grade Placement:** 11-12; 1 credit; 8 college hours (CH. 74)

**Prerequisite:** Meet dual credit requirements, complete college registration process, proof of enrollment, paid tuition, purchase college textbook(s) and provide evidence to high school by deadline, and successful completion of Biology and Chemistry

*This is a CTE course that will satisfy a high school science graduation requirement*

This laboratory-oriented course includes the study of normal relationships between anatomical structures and physiological functions and the diagnosis and treatment of abnormal conditions of human systems. It is ideal for nursing majors. Eight hours of college science credit will be earned that could be accepted by many colleges. Students must take and pay for both semesters of this course in order to get a full year of high school science credit. This is a college course and follows a college syllabus, therefore grades are only required to be reported at mid-term and semester.

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### **COLLEGE BIOLOGY 1408/1409**

**Course: DC3305/DC3306 | PEIMS: 13037200**

**Grade Placement:** 11-12; 1 credit; 8 hours college credit (CH. 74)

**Prerequisite:** Meet dual credit requirements, complete college registration process, proof of enrollment, paid tuition, purchase college textbook(s) and provide evidence to high school by deadline, and successful completion of Biology and Chemistry

This laboratory-oriented course is designed to meet the requirements for prospective **non-science** majors. Eight hours of college science credit will be earned that could be accepted by many colleges. Students must take and pay for both semesters of this course in order to get a full year of high school. This is a college course and follows a college syllabus, therefore grades are only required to be reported at mid-term and semester.

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### **COLLEGE CHEMISTRY 1411/1412**

**Course: DC3302 | PEIMS: IHE11200**

**Grade Placement:** 11-12; 1 credit; 4 hours college credit (CH. 74)

**Prerequisite:** Successful completion of College Algebra or High School Pre-Calculus, Biology and Chemistry. Meet dual credit requirements, complete college registration process, proof of enrollment, paid tuition, purchase college textbook(s) and provide evidence to high school by deadline.

Fundamental principles of chemistry for majors in the sciences, health sciences, and engineering; topics include measurements, fundamental properties of matter, states of matter, chemical reactions, chemical stoichiometry, periodicity of elemental properties, atomic structure, chemical bonding, molecular structure, solutions, properties of gases, and an introduction to thermodynamics and descriptive chemistry. Basic laboratory experiments supporting theoretical principles presented in this course; introduction of the scientific methods, experimental design, data collection and analysis, and preparation of laboratory reports.

## **ENGINEERING SCIENCE (PLTW)**

**Course: 9420 | PEIMS: 13037500**

**Grade Placement:** 9-12, 1 credit (CH. 74)

**Prerequisite:** Successful completion of PLTW Introduction to Engineering Design (IED) and Algebra I and two science credits (may be concurrent)

Through problems that engage and challenge, students explore a broad range of engineering

topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

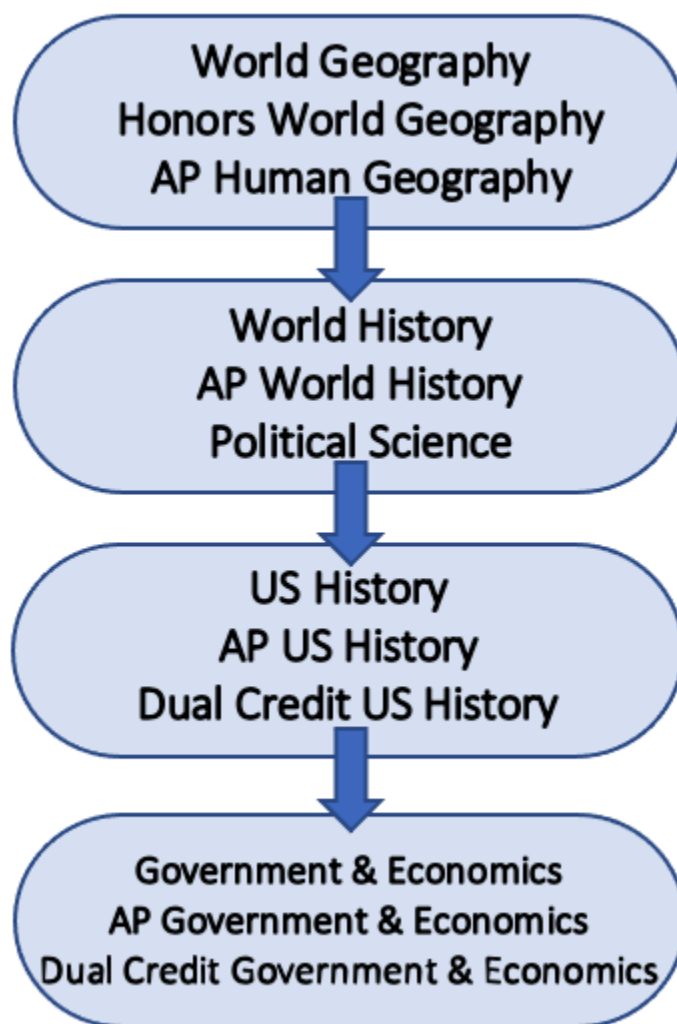


# Social Studies Course Sequence

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## Course Selection in Social Studies

Students must have three credits in Social Studies for graduation, however it is highly recommended that all college-bound students earn four years of high school social studies credit. Students have several choices in their social studies course selection and may choose the added rigor of taking Pre-AP, Dual Credit, or AP Social Studies courses. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled. All students must take a course in World Geography or World History, U.S. History, Government (half credit), and Economics (half credit). Advanced 9th grade students may choose to take AP Human Geography instead of World Geography or World History.



# Social Studies Courses

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## WORLD GEOGRAPHY

**Course: 4000 | PEIMS: 3320100**

**Grade Placement:** 9; 1 credit (CH. 74)

**Prerequisite:** None

Content for this course provides students the opportunity to study the interaction of people and cultures with their physical environments in the major areas of the world.

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## HONORS WORLD GEOGRAPHY

**Course: 4100 | PEIMS: 3320100**

**Grade Placement:** 9; 1 credit (CH. 74)

**Prerequisite:** None

This course represents an in-depth study of the concepts of World Geography. It provides students the opportunity to pursue focused study of the interaction of people and cultures with their physical environments in the major areas of the world. Instructional methods in this course are designed to prepare students for successful completion of the AP social studies courses.

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## AP HUMAN GEOGRAPHY

**Course: 4207 | PEIMS: A3360100**

**Grade Placement:** 9-10; 1 credit (CH. 74)

**Prerequisite:** None

The AP Human Geography course is equivalent to an introductory college-level course in human geography. The course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine socio-economic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and

applications. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

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## WORLD HISTORY STUDIES

**Course: 4004 | PEIMS: 3340400**

**Grade Placement:** 9-10; 1 credit (CH. 74)

**Prerequisite:** None

This is the study of man, his civilization and culture, and his ideas and institutions, from the primitive beginnings to the present time. It traces the political, economic, and social experiences of mankind and applies them to the present. Students gain an awareness of American-Western Civilization and the relationship of Western culture to other great world cultures. With this background, a study of contemporary world affairs becomes an essential element of the course, as do the achievements of man in his total cultural setting.

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## AP WORLD HISTORY

**Course: 4209 | PEIMS: A3370100**

**Grade Placement:** 9-10; 1 credit (CH. 74)

**Recommended Prerequisite:** Successful completion of World Geography or AP Human Geography

This course is an in-depth study of the concepts presented in World History focusing on the causes and effects of historical events, identifying and establishing patterns, and predicting and solving problems. AP World History covers material in the regular course plus more in-depth study of causes and effects of historical events, identifying and establishing patterns, predicting and solving problems. Students must be prepared for college level instruction to benefit from this course that prepares them for the AP exam given in May. Research projects, outside reading, and class



presentations are required. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

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## **POLITICAL SCIENCE**

**Course: 8601 | PEIMS: 13018300**

**Grade Placement:** 9-10; 1 credit

**Prerequisite:** None

Political Science I introduces students to political theory through the study of governments; public policies; and political processes, systems, and behavior.

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## **UNITED STATES HISTORY STUDIES SINCE 1877**

**Course: 4002 | PEIMS: 3340100**

**Grade Placement:** 11; 1 credit (CH. 74)

**Recommended Prerequisite:** Successful completion of World Geography, World History, or AP Human Geography

This course is a history of the United States from Reconstruction following the Civil War through the present. Emphasis is given to America's development as a nation built on free enterprise, a world power among nations, and a democratic society based on government by Constitutional laws.

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## **AP UNITED STATES HISTORY**

**Course: 4204 | PEIMS: A3340100**

**Grade Placement:** 11; 1 credit (CH. 74)

**Recommended Prerequisite:** Successful completion of a high school Pre-AP social studies course.

This program is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with problems and materials in American History. Students are prepared for intermediate and advanced college courses by requiring performances equivalent to those of full-year introductory college courses. Pupils assess historical elements, interpret problems and weigh

evidence presented in historical scholarship. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

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## **COLLEGE UNITED STATES HISTORY STUDIES SINCE 1877: 1301/1302**

**Course: DC4302 | PEIMS: 3340100**

**Grade Placement:** 11; 1 High School credit and 3 college hours each semester (CH. 74)

**Prerequisite:** Meet dual credit requirements, complete college registration process, proof of enrollment, paid tuition, purchase college textbook(s) and provide evidence to high school by deadline

Completion of this course earns high school credit for US History and 3 college hours each semester from Navarro. The history of the United States is presented, beginning with the European background and first discoveries. The pattern of exploration, settlement, and development of institutions is followed throughout the colonial period to 1877. In the second semester (1302), the history of the US is surveyed from the Reconstruction era to the present day. Three hours of college social studies credit will be awarded. Many colleges will accept these hours. This is a college course and follows a college syllabus, therefore grades are only required to be reported at mid-term and semester.

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## **GOVERNMENT**

**Course: 4001 | PEIMS: 3330100**

**Grade Placement:** 11-12; .5 credit (CH. 74)

**Recommended Prerequisite:** Successful completion of World Geography, World History, or AP Human Geography and US History.

This course provides an opportunity to explore in more detail the political and governing processes, elements of political theories and governmental structures and functions addressed in the social studies at previous levels. Content includes such topics as the political processes at national, state and local governmental levels; the political heritage; comparative economic systems; and international relations. Emphasis is placed on concepts of the

free enterprise system, political participation, leadership, decision-making, political institutions, nature of laws, and the rights and responsibilities of American citizenship.

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### **AP US GOVERNMENT AND POLITICS**

**Course: 4202 | PEIMS: A3330100**

**Grade Placement:** 12; .5 credit (CH. 74)

**Recommended Prerequisite:** Successful completion of regular, dual credit or AP US History

This course presents an in-depth study of American government from the colonial period through the contemporary era. The course requires extensive research in several areas of the governmental processes. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

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### **COLLEGE US GOVT 2305**

**Course: DC4301 | PEIMS: 3330100**

**Grade Placement:** 12; .5 credit and 3 college hours in political science (CH. 74)

**Prerequisite:** Meet dual credit requirements, complete college registration process, proof of enrollment, paid tuition, purchase college textbook(s) and provide evidence to high school by deadline

Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights. College level National Government and the National Government curriculum will be offered through Navarro College. Three hours of college social studies will be awarded and may be accepted at many colleges. Extensive outside reading and writing are required. This is a college course and follows a college syllabus, therefore grades are only required to be reported at mid-term and semester.

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### **ECONOMICS WITH EMPHASIS ON THE FREE ENTERPRISE SYSTEM**

**Course: 4023 | PEIMS: 3310300**

**Grade Placement:** 11-12; .5 credit (CH. 74)

**Recommended Prerequisite:** Successful completion of World Geography, World History, or AP Human Geography and US History.

This course designed to provide opportunities for students to identify characteristics, benefits, and goals of the American free enterprise system. Emphasis is given to the basic principles and theories of production, consumption, and distribution of goods and services. Essential elements of the course include private ownership of property, limited role of government, international economic relations, consumer economics, and personal financial responsibility.

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### **AP MACROECONOMICS**

**Course: 4200 | PEIMS: A3310200**

**Grade Placement:** 12; .5 credit (CH. 74)

**Recommended Prerequisite:** Successful completion of regular, dual credit or AP US History

This course provides students a thorough understanding of the principles of economics that apply to an economic system as a whole. In addition, AP Economics places particular emphasis on the study of national income and price determination and also develops students' familiarity with economic performance measures, economic growth and international economics. AP Macroeconomics includes topics generally covered in college courses. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

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### **COLLEGE MACROECONOMICS: ECON 2301**

**Course: DC4323 | PEIMS: 3310300**

**Grade Placement:** 12; .5 credit and 3 college hours in economics (CH. 74)

**Prerequisite:** Meet dual credit requirements, complete college registration process, proof of enrollment, paid tuition, purchase college

textbook(s) and provide evidence to high school by deadline

Students will the economy as a whole, national income, money and banking and monetary policy, and related economic problems. College level Economics credit will be offered through Navarro College. Admission testing requirements are required. Extensive outside reading and writing are

required. A serious approach to college level studies is essential in this course. Three hours of college economics will be awarded. These will be accepted by many universities. This is a college course and follows a college syllabus, therefore grades are only required to be reported at mid-term and semester.

# Social Studies Electives

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## **SOCIOLOGY**

**Course: 4006 | PEIMS: 3370100**

**Grade Placement:** 10-12; 0.5 credit

**Prerequisite:** None

This course deals with the study of people and their interaction with one another. It involves learning about institutions found in all societies, such as the family and community organizations as well as political and social activities. Broad areas of content include mobility of people, human relationships and factors in society that influence personality.

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## **PSYCHOLOGY**

**Course: 4005 | PEIMS: 3350100**

**Grade Placement:** 10-12; 0.5 credit

**Prerequisite:** None

This survey course introduces the students to the field of psychology. It is designed to give students a basic history of psychology, theories of learning, self-awareness, process of thinking, personality, heredity and mental health as well as a study of human growth and development.

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## **AP PSYCHOLOGY**

**Course: 4206 | PEIMS: A3350100**

**Grade Placement:** 11-12; (.5 credit AP social studies for the AP Psychology; .5 credit regular social studies for Special Topics in Social Studies)

**Prerequisite:** *Special Topics in Social Studies is only to be taken if AP Psychology is taken in the fall.*

This course introduces students to the systematic and scientific study of the behavioral and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles and phenomena associated with each of the major subfields within psychology. This course is paired with Special Topics in Social Studies. AP Psychology to be taken in the fall semester, while Special Topics in Social Studies is taken in the spring semester. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

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## **SPECIAL TOPICS IN SOCIAL STUDIES (FIRST TIME TAKEN)**

**Course: 4008 | PEIMS: 3380002**

**Grade Placement:** 11 - 12; .5 elective credit

**Prerequisite:** *AP Psychology fall semester*

In this elective course, students conduct advanced research on a selected topic in social studies using qualitative and/or quantitative methods of inquiry. Students are required to collect information from a variety of sources (primary, secondary, written, and oral) using techniques such as questionnaires, interviews, and library research. They will use current technology such as library topic catalogues, networks, online information systems, academic journals, email interviews, and video interviews to collect information about the selected topic.

Students employ processes of critical social science inquiry to establish credibility, validity, and causality of evidence. Research results and conclusions are presented in written and visual or oral format with a developed bibliography of source materials and authors. This course is paired with AP Psychology.

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### **AP EUROPEAN HISTORY**

**Course: 4205 | PEIMS: A3340200**

**Grade Placement:** 10-12; 1 credit

**Recommended Prerequisite:** Successful completion of a high school Pre-AP social studies course

This program is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with problems and materials in European History. Students are prepared for intermediate and advanced college courses by requiring performances equivalent to those of full-year introductory college courses. Pupils assess historical elements, interpret problems and weigh evidence presented in historical scholarship. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

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### **COLLEGE PSYCHOLOGY: PSYC 2301 (Students seeking an Associate's Degree will receive first priority for enrollment)**

**Course: DC4300 | PEIMS: 3350100**

**Grade Placement:** 10-12; .5 high school credit for Psychology, and 3 college hours (one semester course)

**Prerequisite:** Meet dual credit requirements, complete college registration process, proof of enrollment, paid tuition, purchase college textbook(s) and provide evidence to high school by deadline

Completion of this course earns high school credit for Psychology and 3 college hours from Navarro. General Psychology is a survey of the major psychological topics, theories and approaches to the scientific study of behavior and mental processes. This is a college course and follows a college

syllabus, therefore grades are only required to be reported at mid-term and semester.

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### **COLLEGE TEXAS GOVERNMENT: GOVT 2306**

**Course: DC4007 | PEIMS: 3380001**

**Grade Placement:** 12; .5 credit and 3 college hours in political science

**Prerequisite:** Meet dual credit requirements, complete college registration process, proof of enrollment, paid tuition, purchase college textbook(s) and provide evidence to high school by deadline. This course may NOT be used to fulfill any high school graduation requirements in Social Studies.

Origin and development of the Texas constitution, structure and powers of state and local government, federalism and intergovernmental relations, political participation, the election process, public policy, and the political culture of Texas. College level Texas Government and the Texas Government curriculum will be offered through Navarro College. Although this course is an elective and does not substitute for any high school graduation requirements, three hours of college social studies will be awarded and may be accepted at many colleges. Extensive outside reading and writing are required. This is a college course and follows a college syllabus, therefore grades are only required to be reported at mid-term and semester.

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### **COLLEGE SOCIOLOGY: 1301 SOCI (Students seeking an Associate's Degree will receive first priority for enrollment)**

**Course: DC4301 | PEIMS: 3370100**

**Grade Placement:** 10-12; .5 high school credit for sociology, and 3 college hours (one semester course)

**Prerequisite:** Meet dual credit requirements, complete college registration process, proof of enrollment, paid tuition, purchase college textbook(s) and provide evidence to high school by deadline

Completion of this course earns high school credit for Sociology and 3 college hours from Navarro. The

scientific study of human society, including ways in which groups, social institutions, and individuals affect each other. Causes of social stability and social change are explored through the application of various theoretical perspectives, key concepts, and related research methods of sociology. Analysis of social issues in their institutional context may include topics such as social stratification, gender, race/ethnicity, and deviance. This is a college course and follows a college syllabus, therefore grades are only required to be reported at mid-term and semester.

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### **ETHNIC STUDIES: MEXICAN AMERICAN STUDIES**

**Course: 4021 | PEIMS: 3380084**

***Grade Placement:*** 10-12; 1.0 credit

***Prerequisite:*** None

Mexican American Studies, an elective course, students learn about the history and cultural contributions of Mexican Americans. Students explore history and culture from an interdisciplinary perspective. The course emphasizes events in the 20th and 21st centuries, but students will also engage with events prior to the 20th century.

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### **ETHNIC STUDIES: AFRICAN AMERICAN STUDIES**

**Course: 9839 | PEIMS: N1130027**

***Grade Placement:*** 9-12; 1.0 credit

***Prerequisite:*** None

African American Studies is a conceptually driven course that introduces students to the exploration of the rich and diverse history and culture of African Americans. The goal of this course is to broaden the knowledge and understanding of students interested in learning about history, citizenship, culture, economics, science, technology, geography, and the political realities of African Americans. These strands should not be taught in isolation but woven together in an integrated study that helps students understand the world in which we live. This course should provide students with an opportunity to engage with the social, economic, and political activities of African Americans in a way that allows them to make deep connections across the content. The historical content of this course should be taught with relevance to contemporary and current issues in order to ensure a deeper understanding for students.

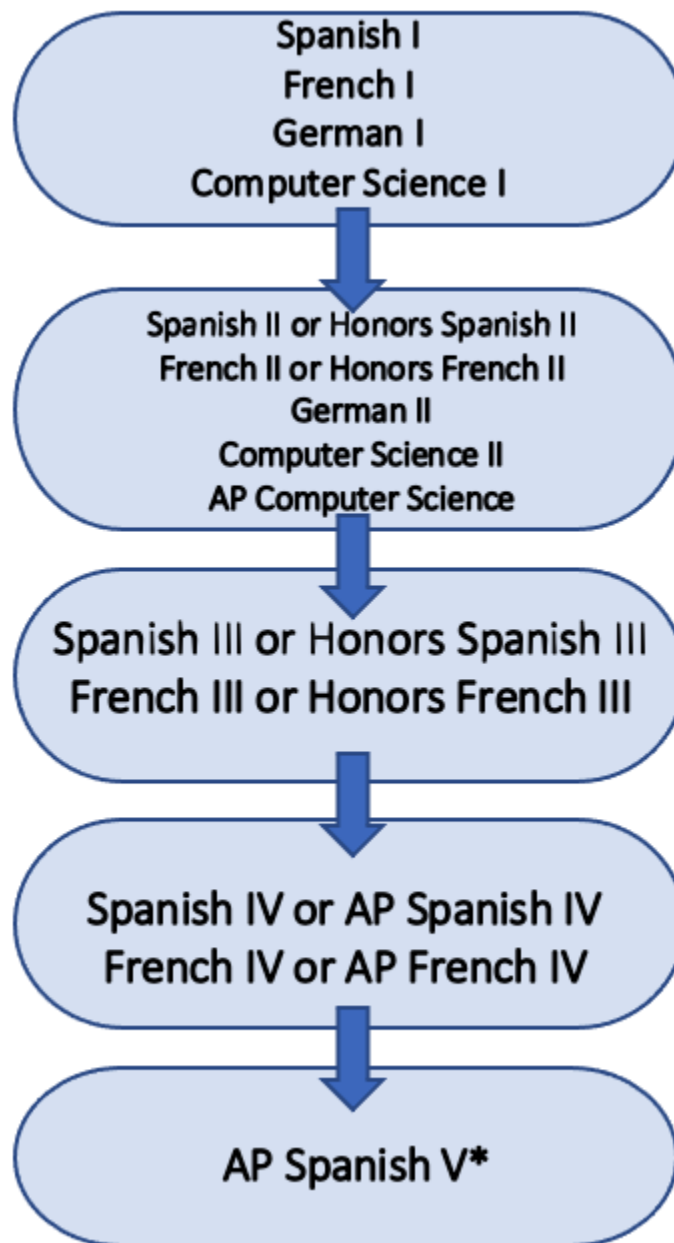
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# Languages Other Than English

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## **COURSE SELECTIONS IN LANGUAGES OTHER THAN ENGLISH**

All students must earn two credits in the same language for graduation. Exceptions may sometimes be made for students with a 504 placement or an Individual Education Plan (IEP). Students are encouraged to pursue additional foreign language course opportunities by taking advanced language courses. Students are also encouraged to take advantage of Pre-AP, AP, and Dual Credit opportunities. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.



\*Students who complete Spanish I in middle school may take AP Spanish V during their Senior Year.



# LOTE Courses

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## SPANISH I

Course: 5000 | PEIMS: 3440100

**Grade Placement:** 9-12; 1 credit

**Prerequisite:** None

This introductory course enables the student to learn basic Spanish pronunciation, to acquire basic vocabulary sufficient for simple conversations, to practice basic structure patterns, and to become aware of Spanish culture.

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## SPANISH II

Course: 5002 | PEIMS: 3440200

**Grade Placement:** 9-12; 1 credit

**Prerequisite:** Successful completion of Spanish I

This course is a continuation of Spanish I and is designed to reinforce the extended concepts introduced in the first course. Spanish II includes intermediate level vocabulary and grammar structure. Activities are designed to continue development of these skills in the target language.

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## HONORS SPANISH II

Course: 5201 | PEIMS: 3440200

**Grade Placement:** 9-12; 1 credit

**Prerequisite:** Successful completion of Spanish II

This course is intended for students who wish to develop proficiency in all four language skills: listening, speaking, reading, and writing, and who wish to explore further the history, art, and culture of Spanish. Upon completion of this course, students should be prepared to take AP Spanish.

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## SPANISH FOR NATIVE SPEAKERS

Course: 5001 | PEIMS: 3440110

**Grade Placement:** 9 - 12; 1 credit

**Prerequisites:** Department approval

This course is designed for students who have oral production and comprehension skills as native Spanish speakers. The course emphasis includes Hispanic culture, reading, and writing skills. Class will be conducted entirely in Spanish. Students will receive credit for Spanish I and II.

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## COLLEGE SPANISH I AND II: SPAN 1411/1412 (ONE YEAR OF HIGH SCHOOL SPANISH)

Course: DC5400 and DC5401 | PEIMS: 3440100 and 3440200

**Grade Placement:** 10; .5 high school credit for each semester, 4 hours of college credit for each semester

**Prerequisites:** Meet dual credit requirements, complete college registration process, proof of enrollment, paid tuition, purchase college textbook(s) and provide evidence to high school by deadline

Students will learn basic Spanish language skills in listening, speaking, reading, and writing within a cultural framework. Students will acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the beginner level. Students must pay tuition and enroll in both semesters to earn credit for **one year of high school Spanish** and 8 hours of college credit upon successful completion of the two semesters of dual credit. This is a college course and follows a college syllabus, therefore grades are only required to be reported at mid-term and semester.

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## HONORS SPANISH III

Course: 5202 | PEIMS: 3440300

**Grade Placement:** 10-12; 1 credit

**Prerequisite:** Spanish I and II

This course is instructed mainly in Spanish. This course teaches advanced Spanish grammar and continues to develop oral and written skills in Spanish acquired in Pre-AP class levels I and II. It incorporates Spanish literature and culture with emphasis in developing skills for reading and comprehension needed in level IV.

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#### **AP SPANISH IV**

**Course: 5300 | PEIMS: A3440100**

**Grade Placement:** 11-12; 1 credit

**Prerequisite:** Successful completion of Spanish I, II, and III; or Foreign Language Department approval

This course is instructed mainly in Spanish. It presents six primary learning objective areas within the three modes of communication (Interpersonal, Interpretive, Presentational) described by the Standards for Foreign Language Learning in the 21<sup>st</sup> Century. The rigor of this course is equivalent to a college level class, which prepares the students to complete the Advanced Placement Language and Culture examination in May. This course emphasizes advanced proficiency in speaking, understanding, reading, and writing in Spanish. Hispanic culture is acquired through authentic AP Spanish Literature. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

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#### **AP SPANISH V**

**Course: 5306 | PEIMS: A3440200**

**Grade Placement:** 12; 1 credit

**Prerequisite:** Successful completion of Spanish I, II, III and IV; or Foreign Language Department approval

The AP Spanish Literature and Culture course uses a thematic approach to introduce students to representative texts (short stories, novels, poetry, and essays) from Peninsular Spanish, Latin American, and United States Hispanic literature. Students continue to develop proficiencies across the full range of the modes of communication (interpersonal, presentational, and interpretive), honing their critical reading and analytical writing skills. Literature is examined within the context of its time and place, as

students reflect on the many voices and cultures present in the required readings. The course also includes a strong focus on cultural connections and comparisons, including exploration of various media (e.g., art, film, articles, and literary criticism). The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

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#### **FRENCH I**

**Course: 5141 | PEIMS: 3410100**

**Grade Level:** 9 -12; 1 credit

**Prerequisite:** None

This course is an introduction to the French language and culture. This course includes basic listening, speaking, reading, and writing skills, with an emphasis on building vocabulary. Additional cultural assignments and projects, most involving technology, may be required to be completed outside the classroom.

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#### **FRENCH II**

**Course: 5142 | PEIMS: 3410200**

**Grade Level:** 10 -12; 1 credit

**Prerequisite:** Successful completion of French I

A continuation of French I, this course builds on basic listening, speaking, reading, and writing skills. Activities are designed to continue development of these skills in the target language. Additional cultural assignments and projects, most involving technology, may be required to be completed outside the classroom.

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#### **AP COMPUTER SCIENCE**

**Grade Placement:** 10 - 12; This course is only 1 hour during the school day, but earns 2 credits: (1 Math & 1 LOTE)

**Prerequisite:** Required Algebra I; Recommended Computer Science I and Algebra II

#### **Math**

**Course: 2203 | PEIMS: A3580110 (CH. 74)**



Students will learn about the computing tools that are used every day. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will learn the problem-solving and reasoning skills that are the foundation of computer science. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

## **LOTE**

**Course: 5308 | PEIMS: A3580120**

Students will learn about the computing tools that are used every day. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will learn the problem-solving and reasoning skills that are the foundation of computer science.

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## **COMPUTER SCIENCE I**

**Course: 9034 | PEIMS: 03580200**

**Grade Placement:** 9-12

**Prerequisite:** Algebra I

Computer Science I will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems.

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## **COMPUTER SCIENCE II**

**Course: 9035 | PEIMS: 03580300**

**Grade Placement:** 9-12

**Prerequisite:** Algebra I and either Computer Science I or Fundamentals of Computer Science

Computer Science II will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems.

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## **GERMAN I**

**Course: 5151 | PEIMS: 03420100**

**Grade Placement:** 9

**Prerequisite:** None

The study of world languages is an essential part of education. In the 21st century language classroom, students gain an understanding of two basic aspects of human existence: the nature of communication and the complexity of culture. Students become aware of multiple perspectives and means of expression, which lead to an appreciation of difference and diversity. Further benefits of foreign language study include stronger cognitive development, increased creativity, and divergent thinking. Students who effectively communicate in more than one language, with an appropriate understanding of cultural context, are globally literate and possess the attributes of successful participants in the world community.

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## **GERMAN II**

**Course: 5152 | PEIMS: 03420200**

**Grade Placement:** 10-12

**Prerequisite:** German I

The study of world languages is an essential part of education. In the 21st century language classroom, students gain an understanding of two basic aspects of human existence: the nature of communication and the complexity of culture. Students become

aware of multiple perspectives and means of expression, which lead to an appreciation of difference and diversity. Further benefits of foreign language study include stronger cognitive development, increased creativity, and divergent thinking. Students who effectively communicate in

more than one language, with an appropriate understanding of cultural context, are globally literate and possess the attributes of successful participants in the world community.

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# Physical Education

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The State of Texas requires one year of physical education (PE) for graduation and allows up to four years/four credits of Physical Education/ Athletics to count as state graduation credits. Once the student completes four years/four credits, the fifth year will count as a local credit. The first year taking an athletic course will automatically count as a PE substitution unless the student has already satisfied or is currently taking another course that will count as a full credit PE substitution; such as JROTC, Drill Team, Cheerleading, or a Marching Band course coded as a PE substitution or a District-approved off-campus activity substitution.

## LIFETIME FITNESS AND WELLNESS PURSUITS

**Course: 6000 | PEIMS: PES00051**

**Grade Placement:** 9-11; 1 credit

**Prerequisite:** None

This course is a study of physical fitness to increase understanding of the relationship between physical fitness activities and health issues, consumer issues, safety practices and assessment of individual fitness levels. Activities will help improve and maintain physical fitness levels and a program will be designed to meet individual needs and interests.

## SKILL BASED LIFETIME ACTIVITIES

**Course: 6002 | PEIMS: PES00056**

**Grade Placement:** 9-12; .5 credit

**Prerequisite:** None

Students in aerobic activities are exposed to a variety of activities that promote health-related fitness. A major expectation of this course is for the physically literate student to apply tactics and strategies to be successful in skill-based lifetime activities.

## LIFETIME REC AND OUTDOOR PURSUITS

**Course: 6001 | PEIMS: PES00053**

**Grade Placement:** 9-12; .5 credit

**Prerequisite:** None

Students enrolled in adventure outdoor education are expected to develop competency in outdoor education activities that provide opportunities for enjoyment and challenge. Emphasis is placed upon student selection of activities that also promote a respect for the environment and that can be enjoyed for a lifetime.

## P.E. EQUIVALENT-CHEERLEADING I FALL

**Course: 6014 | PEIMS: PES00013**

**CHEERLEADING I SPRING LOCAL**

**Course: 6017 | PEIMS: 842000PE**

## P.E. EQUIVALENT-CHEERLEADING II FALL

**Course: 6014 | PEIMS: PES00013**

**CHEERLEADING II SPRING LOCAL**

**Course: 6018 | PEIMS: 842000PE**

## P.E. EQUIVALENT-CHEERLEADING III FALL

**Course: 6030 | PEIMS: PES00002**

**CHEERLEADING III SPRING LOCAL**

**Course: 6019 | PEIMS: 842000PE**

## P.E. EQUIVALENT-CHEERLEADING IV FALL

**Course: 6031 | PEIMS: PES00003**

**CHEERLEADING IV SPRING LOCAL**

**Course: 6020 | PEIMS: 842000PE**

**Grade Placement:** 9-12; .5 credit per semester

(state credits cannot exceed one credit)

**Prerequisite:** Spring tryout

Cheerleaders at each school campus are determined by tryouts held in the spring of the year. Cheerleaders are expected to perform at athletic events and special functions throughout the year. Physical education credit is granted for cheerleader participation during the fall semester. Schedule may

be rearranged to accommodate a spring semester credit. (Fall semester only)

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### **P.E. EQUIVALENT-CHEERLEADING V**

**Course: 6021 | PEIMS: 842000PE**

**Grade Placement:** 12 1 credit per year. The fifth credit is a local credit.

**Prerequisite:** Coach Approval

This course includes competitive U.I.L individual and team sports. Available sports may vary by campus from year to year.

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### **P.E. SUBSTITUTION ATHLETICS I**

**Course: 6028 | PEIMS: PES00000**

**Grade Placement:** 9-12 1 credit per year. The fifth credit is a local credit.

**Prerequisite:** Coach Approval

This course includes competitive U.I.L individual and team sports. Available sports may vary by campus from year to year.

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### **P.E SUBSTITUTION ATHLETICS II**

**Course: 6029 | PEIMS: PES00001**

**Grade Placement:** 9-12 1 credit per year. The fifth credit is a local credit.

**Prerequisite:** Coach Approval

This course includes competitive U.I.L individual and team sports. Available sports may vary by campus from year to year.

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### **P.E. SUBSTITUTION ATHLETICS III**

**Course: 6030 | PEIMS: PES00002**

**Grade Placement:** 9-12 1 credit per year. The fifth credit is a local credit.

**Prerequisite:** Coach Approval

This course includes competitive U.I.L individual and team sports. Available sports may vary by campus from year to year.

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### **P.E. SUBSTITUTION ATHLETICS IV**

**Course: 6031 | PEIMS: PES00003**

**Grade Placement:** 9-12 1 credit per year. The fifth credit is a local credit.

**Prerequisite:** Coach Approval

This course includes competitive U.I.L individual and team sports. Available sports may vary by campus from year to year.

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### **P.E. ATHLETICS V**

**Course: 6032 | PEIMS: 84200LPE**

**Grade Placement:** 9-12 1 credit per year. The fifth credit is a local credit.

**Prerequisite:** Coach Approval

This course includes competitive U.I.L individual and team sports. Available sports may vary by campus from year to year.

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### **DANCE I, PERFORMANCE ENSEMBLE I (DRILL TEAM ONLY)**

**Course: 5804 | PEIMS:3833300**

or

### **P.E SUBSTITUTION DRILL TEAM I**

**Course: 6015 | PEIMS: PES00014**

**Grade Placement:** 9-12 1 credit

**Prerequisite:** Spring tryout

The drill team is a performing group for various athletic events. Membership is determined through spring tryouts. **Physical education credit is awarded for the first year of drill team participation only.** If PE credit has already been obtained in 8th grade, it will count as a fine art credit.

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### **DANCE II, PERFORMANCE ENSEMBLE II (DRILL TEAM ONLY)**

**Course: 5805 | PEIMS:3833400**

or

### **P.E SUBSTITUTION DRILL TEAM II**

**Course: 6015 | PEIMS: PES00014**

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**Grade Placement:** 9-12 1 credit  
**Prerequisite:** Spring tryout

The drill team is a performing group for various athletic events. Membership is determined through spring tryouts. **Physical education credit is awarded for the first year of drill team participation only.** If PE credit has already been obtained, it will count as a fine art credit.

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**DANCE III, PERFORMANCE ENSEMBLE III  
(DRILL TEAM ONLY)**

**Course:** 5806 | **PEIMS:**3833500  
or

**P.E SUBSTITUTION DRILL TEAM III  
Course:** 6015 | **PEIMS:** PES00014

**Grade Placement:** 9-12 1 credit  
**Prerequisite:** Spring tryout

The drill team is a performing group for various athletic events. Membership is determined through spring tryouts. **Physical education credit is awarded for the first year of drill team participation only.** If PE credit has already been obtained, it will count as a fine art credit.

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**DANCE IV, PERFORMANCE ENSEMBLE IV  
(DRILL TEAM ONLY)**

**Course:** 5807 | **PEIMS:**3833600  
or

**P.E SUBSTITUTION DRILL TEAM IV  
Course:** 6015 | **PEIMS:** PES00014

**Grade Placement:** 9-12 1 credit  
**Prerequisite:** Spring tryout

The drill team is a performing group for various athletic events. Membership is determined through spring tryouts. **Physical education credit is awarded for the first year of drill team participation only.** If PE credit has already been obtained, it will count as a fine art credit.

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**DANCE OFFICERS (DRILL TEAM ONLY)  
Course:** 9828 | **PEIMS:** 85000DRL

**Grade Placement:** 9-12 1 credit  
**Prerequisite:** Spring tryout

The drill team is a performing group for various athletic events. Officer team is determined through spring tryouts. **This is a local credit.** Physical education credit is awarded for the first year of drill team participation.

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**PARTNER/P.E. FOUNDATIONS (STATE)  
Course:** 6004 | **PEIMS:** 84200PE5

**Grade Placement:** 9-12  
**Prerequisite:** Committee placement

This course includes physical education activities that are appropriate for challenged students who are partnered with students who are concurrently enrolled in the Supportive Peer Relationship course. This satisfies one state P.E. credit and should not be repeated once the student successfully completes the course. Students who are paired as assisting partners will sign up for a course in Family and Community Services, which does not count as a P.E. credit.

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**PARTNER P.E. V (LOCAL)  
Course:** 6005 | **PEIMS:** 84200PE5

**Grade Placement:** 12  
**Prerequisite:** Committee placement

This course includes physical education activities that are appropriate for challenged students who are partnered with students who are concurrently enrolled in the Supportive Peer Relationship course. This course is for students who have earned 4 P.E. state credits, making this course a local credit only and will not be applied to graduation credits required. Students who are paired as assisting partners will sign up for a course in Family and Community Services, which does not count as a P.E. credit.

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**PE SUBSTITUTION - JROTC 1  
Course:** 6008 | **PEIMS:** PES00004

**Grade Placement:** 9-12; 1 credit

**Prerequisite:** None

JROTC program has been accredited as a Special Purpose Program by the national accrediting agency known as AdvancED. JROTC curriculum provides equitable and challenging academic content and authentic learning experiences for all Cadets. All lessons are designed using a four part model to motivate the Cadet, allow the Cadet to learn new information, practice competency, and apply the competency to a real-life situation. Moreover, the four part model requires Cadets to collaborate, reflect, develop critical thinking skills, and integrate content with other disciplines. JROTC curriculum includes lessons in leadership, health and wellness, physical fitness, first-aid, geography, American history and government, communications, and emotional intelligence.

This program is only offered at Midlothian High School. Heritage High School students wishing to enroll in the course will need to transfer to Midlothian High School and become a full-time student at Midlothian High School. Procedures for transfer will be provided after enrollment in the course.

For off campus PE substitutions, students must submit an application for approval prior to the start of the semester in which the student wishes to participate. Specific criteria related to administrative approval, grade reporting requirements, transportation, awarding credit, and other important information is contained in the application. Applications can be requested from the campus counselor. The following program requirements must be met.

1. Off-Campus physical activity programs will be approved on an individual basis for those students who are recommended by qualified instructors.
2. Only students in grades six (6) through twelve (12) will be eligible for consideration for the program.

The district will offer two categories of participation:

1. Level 1: (Olympic-level participation and/or competition) These programs involve a minimum of fifteen (15) hours per week of highly intense, professionally supervised training. Students qualifying at this level may be dismissed from one hour per day for such participation. ***Students dismissed may not miss any class other than physical education.***
2. Level 2: (Private/Commercial Level) These programs are to be of high quality, well-supervised by (Superintendent certified) appropriately trained instructors, and will consist of a minimum of five (5) hours per week. ***Students certified to participate at this level may not be dismissed from any part of the regular school day.***

The student must participate a minimum of 100 minutes during the five (5) day-week (Monday through Friday); plus, an additional day that may fall on either the weekend or during the week. All such participation must be under the direct supervision of the instructor.

# Fine Arts

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Physical Education Substitutions - Several courses that include physical activities may be substituted for the one required unit of PE. See specific course for further information.

## Art Course Descriptions

### **ART I – ART FOUNDATION**

**Course: 5500 | PEIMS: 3500100**

**Grade Placement:** 9-12; 1 credit

**Prerequisite:** None

A prerequisite for all other art courses, Art I is an introduction to understanding, creating, and appreciating art. Students will learn the language of art through a course emphasis on the Elements of Art and the Principles of Design in their own work and the discussion of the work of others. A variety of arts processes, media, techniques, and visual subject matter will be explored through the creation of original art. Students will learn techniques that develop their perceptual skills. No previous art experience is required. This is a studio class with limited supplies to be furnished by the students.

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### **ART I – ART APPRECIATION**

**Course: 5502 | PEIMS: 03500110**

**Grade Placement:** 9-12; 1 credit

**Prerequisite:** None

The fine arts incorporate the study of dance, music, theatre, and the visual arts to offer unique experiences and empower students to explore realities, relationships, and ideas. Art Appreciation will introduce learners to the various forms of the visual arts, such as drawing, painting, sculpture, photography, etc. Students will learn to examine works of art, identify and compare key characteristics as they relate to specific periods/styles, and discern the role art has played

throughout history. Through hand-on activities, discussion, and research, learners will develop an overall appreciation for the art they encounter in their daily lives.

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### **ART II**

**Course: 5501 | PEIMS: 3500200**

**Grade Placement:** 10-12; 1 credit

**Prerequisite:** Successful completion of Art I and a desire to seriously pursue artistic potential and talent

This course is a studio course that emphasizes drawing, two-dimensional design, printmaking, and painting. Students will continue to develop their perceptual skills and creative expression by fostering reflective thinking, disciplined effort and problem-solving skills. The students will demonstrate their understanding and use of the Elements of Art and the Principles of Design from the Art I course. The creation of original artworks is emphasized with students relying on their perception of the environment, increased visual awareness, memory, imagination, and life experiences as a source for creating artworks. Limited supplies are required.

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### **ART III**

**Course: 5504 | PEIMS: 3500300**

**Grade Placement:** 11-12; 1 credit

**Prerequisites:** Successful completion of prior art courses, plans to enroll in AP Art, and teacher approval

This studio course is designed to prepare students for the AP Art course and subsequently an AP portfolio review. Drawing, painting, and some printmaking will be the primary medias. The class will be structured around building artistic skills, confidence, and the student's artistic voice. Strong work ethic and a desire to excel are essential for success in this art course.

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**COLLEGE ART I, ART APPRECIATION: ART 1301**  
**(Students seeking an Associate's Degree will receive first priority for enrollment)**

**Course: DC5544 (.5 credit grade) | PEIMS: 3500110**

**Course: DC5544PF (.5 credit P/F)**

**Grade Placement:** 9-12; .5 credit

**Prerequisite:** Meet dual credit requirements, complete college registration process, proof of enrollment, paid tuition, purchase college textbook(s) and provide evidence to high school by deadline

A general introduction to the visual arts designed to create an appreciation of the vocabulary, media, techniques, and purposes of the creative process. Students will critically interpret and evaluate works of art within formal, cultural, and historical contexts. This is a college course and follows a college syllabus, therefore grades are only required to be reported at mid-term and semester.

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**AP ART IV DRAWING**

**Course: 5538 | PEIMS: A3500300**

**Grade Placement:** 12; 1 credit

**Prerequisites:** Successful completion of a Art III course and teacher approval

The AP Studio Art Program consists of three portfolio exams—2-D Design, 3-D Design, and Drawing—corresponding to the college foundation courses. Portfolios allow flexibility of coursework while guiding students to produce college-level quality, artistic investigation, and breadth of work. The Drawing portfolio addresses issues such as line quality, light and shade, rendering of form,

composition, surface manipulation, the illusion of depth, and mark-making. Students' portfolios demonstrate skills and ideas developed, refined, and applied throughout the course to produce visual compositions. Students may choose to submit any or all of the portfolios. Portfolios are evaluated based on standardized scoring descriptors aligned with skills and understanding developed in college foundation courses.

As with all AP courses, a "3" or better evaluation on the portfolio will receive college credit at a number of colleges and universities. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

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**AP STUDIO ART: 2-DIMENSIONAL DESIGN PORTFOLIO**

**Course: 5539 | PEIMS: A3500400**

**Grade Placement:** 12; 1 credit

**Prerequisites:** Successful completion of a Pre-AP Art III course and teacher approval

The AP Studio Art Program consists of three portfolio exams—2-D Design, 3-D Design, and Drawing—corresponding to the college foundation courses. Portfolios allow flexibility of coursework while guiding students to produce college-level quality, artistic investigation, and breadth of work. The 2-D Design portfolio addresses two-dimensional design issues and involves decision making about how to use the elements and principles of art in an integrative way. Students' portfolios demonstrate skills and ideas developed, refined, and applied throughout the course to produce visual compositions. Students may choose to submit any or all of the portfolios. Portfolios are evaluated based on standardized scoring descriptors aligned with skills and understanding developed in college foundation courses.

As with all AP courses, a "3" or better evaluation on the portfolio will receive college credit at a number of colleges and universities. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

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# Band Course Descriptions

## MUSIC I, BAND I

Course: 5600 | PEIMS: 3150100

## MUSIC II, BAND II

Course: 5601 | PEIMS: 3150200

## MUSIC III BAND III

Course: 5602 | PEIMS: 3150300

## MUSIC IV BAND IV

Course: 5603 | PEIMS: 3150400

**Grade Placement:** 9-12; 1 credit (Marching band (fall semester) counts as .5 PE waiver)

**Prerequisites:** Placement by director

Band is primarily a performance organization, which comprises one part of the marching band; however, it rehearses as a separate unit throughout the year. The Band will perform concerts and at UIL and Texas Music Educators Association activities throughout the year. Minimum requirements include participation in UIL Region tryouts and Solo and Ensemble. This group performs music on the most advanced high school level. To qualify for a PE waiver, students must participate in 2 fall semesters of marching band.

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## JAZZ BAND I

Course: 5612 | PEIMS: 3151300

## JAZZ BAND II

Course: 5613 | PEIMS: 3151400

## JAZZ BAND III

Course: 5614 | PEIMS: 3151500

## JAZZ BAND IV

Course: 5615 | PEIMS: 3151600

**Grade Placement:** 9-12; 1 credit

**Prerequisites:** Placement by director

This is primarily a performance organization. This group will perform music from several different genres including Jazz, Rock, Blues, Bebop and Funk.

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## BAND ENSEMBLE (SMALL GROUP)

### INSTRUMENTAL ENSEMBLE I

Course: 5616 | PEIMS: 03151700

### INSTRUMENTAL ENSEMBLE II

Course: 5617 | PEIMS: 03151800

### INSTRUMENTAL ENSEMBLE III

Course: 5618 | PEIMS: 03151900

### INSTRUMENTAL ENSEMBLE IV

Course: 5619 | PEIMS: 03152000

**Grade Placement:** 9-12; 0.5 credit

**Prerequisites:** Placement by director

All percussionists involved in Marching Band must elect this in the fall.

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## COLOR GUARD (FALL)/WINTER GUARD (SPRING)

Course: 9840 | PEIMS: 85000CLG

**Grade Placement:** 9-12; .5 credit per semester

**Prerequisites:** Placement by director

All Color Guard members involved in the Marching Band must elect this in the fall. Winter guard members involved in Varsity and/or JV Winter Guard must enroll in spring semester to participate.

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# Choir Course Descriptions

## MIXED CHOIR

### MUSIC I, CHOIR I

Course: 5700 | PEIMS: 3150900

### MUSIC II, CHOIR II

Course: 5701 | PEIMS: 3151000

### MUSIC III CHOIR III

Course: 5702 | PEIMS: 3151100

### MUSIC IV CHOIR IV

Course: 5703 | PEIMS: 3151200

**Grade Placement:** 9-12; 1 credit

**Prerequisite:** None

This choral ensemble is primarily a training ensemble for students who have an interest in choral music. Course content will emphasize learning to read music, ear training, and vocal development in preparation for more advanced ensembles. This choral ensemble will participate in concerts throughout the year.

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## CHOIR ENSEMBLE (WOMEN'S, MEN'S)

### MUSIC I, VOCAL ENSEMBLE I

Course: 5704 | PEIMS: 3152100

### MUSIC I, VOCAL ENSEMBLE II

Course: 5705 | PEIMS: 3152200

### MUSIC I, VOCAL ENSEMBLE III

Course: 5706 | PEIMS: 3152300

### MUSIC I, VOCAL ENSEMBLE IV

Course: 5707 | PEIMS: 3152400

**Grade Placement:** 9-12; 1 credit

**Prerequisite:** None

This choral ensemble is primarily a training ensemble for female students who have an interest in choral music. Course content will emphasize learning to read music, ear training, and vocal development in preparation for more advanced ensembles. This choral ensemble will participate in concerts throughout the year.

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# Dance Course Descriptions

## DANCE I

**Course: 5800 | PEIMS: 3830100**

**Grade Placement:** 9 - 12; 1 credit

**Prerequisite:** None

*Enrollment in Dance I counts as a Fine Arts credit.*

In Dance, students study four basic strands - perception, creative expression/performance, historical and cultural heritage, and critical evaluation - that provide broad, unifying structures for organizing the knowledge and skills students are expected to acquire. Dance students develop perceptual thinking and moving abilities in daily life

that promote understanding of themselves and others. By mastering movement principles and skills, students develop self-discipline and a better understanding of the importance of movement and mobility to maintain physical health.

## DANCE II

**Course: 5801 | PEIMS: 3830200**

**Grade Placement:** 9 - 12; 1 credit

**Prerequisite:** None

In Dance, students study four basic strands - perception, creative expression/performance, historical and cultural heritage, and critical evaluation - that provide broad, unifying structures for organizing the knowledge and skills students are expected to acquire. Dance students develop perceptual thinking and moving abilities in daily life that promote understanding of themselves and others. By mastering movement principles and skills, students develop self-discipline and a better understanding of the importance of movement and mobility to maintain physical health.

## DANCE III

**Course: 5802 | PEIMS: 3830300**

**Grade Placement:** 9 - 12; 1 credit

**Prerequisite:** None

In Dance, students study four basic strands - perception, creative expression/performance,

historical and cultural heritage, and critical evaluation - that provide broad, unifying structures for organizing the knowledge and skills students are expected to acquire. Dance students develop perceptual thinking and moving abilities in daily life that promote understanding of themselves and others. By mastering movement principles and skills, students develop self-discipline and a better understanding of the importance of movement and mobility to maintain physical health.

## DANCE IV

**Course: 5803 | PEIMS: 3830400**

**Grade Placement:** 9 - 12; 1 credit

**Prerequisite:** None

In Dance, students study four basic strands - perception, creative expression/performance, historical and cultural heritage, and critical evaluation - that provide broad, unifying structures for organizing the knowledge and skills students are expected to acquire. Dance students develop perceptual thinking and moving abilities in daily life that promote understanding of themselves and others. By mastering movement principles and skills, students develop self-discipline and a better understanding of the importance of movement and mobility to maintain physical health.

## DANCE I, PERFORMANCE ENSEMBLE I (DRILL TEAM ONLY)

**Course: 5804 | PEIMS: 3833300**

or

## P.E SUBSTITUTION DRILL TEAM I

**Course: 6015 | PEIMS: PES00014**

**Grade Placement:** 9-12 1 credit

**Prerequisite:** Spring tryout

The drill team is a performing group for various athletic events. Membership is determined through

spring tryouts. **Physical education credit is awarded for the first year of drill team participation only.** If PE credit has already been obtained in 8th grade, it will count as a fine art credit.

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**DANCE II, PERFORMANCE ENSEMBLE II (DRILL TEAM ONLY)**

**Course: 5805 | PEIMS:3833400**

or

**P.E SUBSTITUTION DRILL TEAM II**

**Course: 6015 | PEIMS: PES00014**

**Grade Placement:** 9-12 1 credit

**Prerequisite:** Spring tryout

The drill team is a performing group for various athletic events. Membership is determined through spring tryouts. **Physical education credit is awarded for the first year of drill team participation only.** If PE credit has already been obtained, it will count as a fine art credit.

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**DANCE III, PERFORMANCE ENSEMBLE III (DRILL TEAM ONLY)**

**Course: 5806 | PEIMS:3833500**

or

**P.E SUBSTITUTION DRILL TEAM III**

**Course: 6015 | PEIMS: PES00014**

**Grade Placement:** 9-12 1 credit

**Prerequisite:** Spring tryout

The drill team is a performing group for various athletic events. Membership is determined through spring tryouts. **Physical education credit is awarded for the first year of drill team participation only.** If PE credit has already been obtained, it will count as a fine art credit.

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**DANCE IV, PERFORMANCE ENSEMBLE IV (DRILL TEAM ONLY)**

**Course: 5807 | PEIMS:3833600**

or

**P.E SUBSTITUTION DRILL TEAM IV**

**Course: 6015 | PEIMS: PES00014**

**Grade Placement:** 9-12 1 credit

**Prerequisite:** Spring tryout

The drill team is a performing group for various athletic events. Membership is determined through spring tryouts. **Physical education credit is awarded for the first year of drill team participation only.** If PE credit has already been obtained, it will count as a fine art credit.

---

**DANCE OFFICERS (DRILL TEAM ONLY)**

**Course: 9828 | PEIMS: 85000DRL**

**Grade Placement:** 9-12 1 credit

**Prerequisite:** Spring tryout

The drill team is a performing group for various athletic events. Officer team is determined through spring tryouts. **This is a local credit.** Physical education credit is awarded for the first year of drill team participation.

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# Music Course Descriptions

## **MUSIC STUDIES MUSIC THEORY I**

**Course: 5648 | PEIMS: 3155400**

**Grade Placement:** 12; 1 credit

**Prerequisite:** Teacher Approval

This full year course includes the basic fundamentals of musicianship, theory, musical materials, basic terminology, ear-training and sight-singing procedures. It also integrates interval studies and identification with simple melodic and harmonic dictation. A basic knowledge of the piano keyboard is recommended.

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## **AP MUSIC THEORY**

**Course: 5660 | PEIMS: A3150200**

**Grade Placement:** 11 - 12; 1 credit

**Prerequisite:** placement exam; 1 year of Ensemble or Applied Instrument

Students will analyze various types of music, create short compositions, and develop their aural dictation skills. This course prepares the student for the Advanced Placement Examination in Music Theory

to be taken in May. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

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## **MUSIC STUDIES - MUSIC APPRECIATION I**

**Course: 5650 | PEIMS: 3155600**

**Grade Placement:** 9-12; 1 credit

**Prerequisite:** None

This course covers the four basic strands-- foundations: music literacy; creative expression; historical and cultural relevance; and critical evaluation and response. The foundation of music literacy is fostered through reading, writing, reproducing, and creating music, thus developing a student's intellect. Through creative expression, students apply their music literacy and the critical-thinking skills of music to read, write, create, and/or move. By experiencing musical periods and styles, students will understand the relevance of music to history, culture, and the world, including the relationship of music to other academic disciplines and the vocational possibilities offered.

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# Theater Arts Course Description

## THEATER ARTS I

Course: 5900 | PEIMS: 3250100

**Grade Placement:** 9-12; 1 credit

**Prerequisite:** None

This course combines the theory and exercise in body control, voice, pantomime, interpretation, characterization, and stage action with analysis and study of specific roles, principles of group movement and varied projects in action and group rehearsal. Attendance is required at one fall and one spring production where students are enrolled. This course is a prerequisite for all other theatre courses.

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## THEATER ARTS II

Course: 5901 | PEIMS: 3250200

**Grade Placement:** 10-12; 1 credit

**Prerequisite:** Theater Arts I

This course combines the theory and exercise in body control, voice, pantomime, interpretation, characterization, and stage action with analysis and study of specific roles, principles of group movement and varied projects in action and group rehearsal. Attendance is required at one fall and one spring production where students are enrolled. This course is a prerequisite for all other theatre courses.

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## THEATER ARTS III

Course: 5902 | PEIMS: 3250300

**Grade Placement:** 11-12; 1 credit

**Prerequisite:** Theater Arts II

This course combines the theory and exercise in body control, voice, pantomime, interpretation, characterization, and stage action with analysis and study of specific roles, principles of group movement and varied projects in action and group rehearsal. Attendance is required at one fall and one spring production where students are enrolled. This course is a prerequisite for all other theatre courses.

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## THEATER ARTS IV

Course: 5903 | PEIMS: 3250400

**Grade Placement:** 11-12; 1 credit

**Prerequisite:** Theater Arts III

This course combines the theory and exercise in body control, voice, pantomime, interpretation, characterization, and stage action with analysis and study of specific roles, principles of group movement and varied projects in action and group rehearsal. Attendance is required at one fall and one spring production where students are enrolled. This course is a prerequisite for all other theatre courses.

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## TECHNICAL THEATER I

Course: 5904 | PEIMS: 3250500

**Grade Placement:** 10-12; 1 credit

**Prerequisite:** Theater Arts I

This course deals with an introduction to stagecraft. Students will learn the basics of sound, lighting, scenic design, construction, costuming, and makeup. Attendance at one fall & one spring production is required.

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## TECHNICAL THEATER II

Course: 5905 | PEIMS: 3250600

**Grade Placement:** 10-12; 1 credit each year

**Prerequisite:** Tech Theater 1; teacher approval

This course is an application of stagecraft skills. Students will participate in the technical aspects of school productions and rehearsals. Time will be spent on these productions both in class and outside of class.

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## TECHNICAL THEATER III

Course: 5910 | PEIMS: 3251100

**Grade Placement:** 11-12; 1 credit each year

**Prerequisite:** Tech Theater II; teacher approval

This course is an application of stagecraft skills. Students will participate in the technical aspects of school productions and rehearsals. Time will be spent on these productions both in class and outside of class.

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#### **TECHNICAL THEATER IV**

**Course: 5911 | PEIMS: 3251200**

**Grade Placement:** 12; 1 credit each year

**Prerequisite:** Tech Theater III; teacher approval

This course is an application of stagecraft skills. Students will participate in the technical aspects of school productions and rehearsals. Time will be spent on these productions both in class and outside of class.

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#### **THEATER PRODUCTION I**

**Course: 5906 | PEIMS: 3250700**

**Grade Placement:** 9-12; 1 credit each year

**Prerequisite:** Theater Arts course, audition/director approval

These courses provide opportunities for students to audition, rehearse, and perform in public. The students participate in research and design and work on technical crews for staging, lighting, and other technical areas.

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#### **THEATER PRODUCTION II**

**Course: 5907 | PEIMS: 3250800**

**Grade Placement:** 10-12; 1 credit each year

**Prerequisite:** Theater Production I, audition/director approval

These courses provide opportunities for students to audition, rehearse, and perform in public. The students participate in research and design and work on technical crews for staging, lighting, and other technical areas.

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#### **THEATER PRODUCTION III**

**Course: 5908 | PEIMS: 3250900**

**Grade Placement:** 11-12; 1 credit each year

**Prerequisite:** Theater Production II, audition/director approval

These courses provide opportunities for students to audition, rehearse, and perform in public. The students participate in research and design and work on technical crews for staging, lighting, and other technical areas.

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#### **THEATER PRODUCTION IV**

**Course: 5909 | PEIMS: 3251000**

**Grade Placement:** 12; 1 credit each year

**Prerequisite:** Theater Production III, audition/director approval

These courses provide opportunities for students to audition, rehearse, and perform in public. The students participate in research and design and work on technical crews for staging, lighting, and other technical areas.

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#### **COLLEGE THEATRE I: DRAM 1310 (Students seeking an Associate's Degree will receive first priority for enrollment)**

**Course: DC5900 (.5 credit grade) | PEIMS: 3250100**

**Course: DC5900PF (.5 credit P/F) | PEIMS: 3250100**

**Grade Placement:** 9-12; .5 credit

**Prerequisite:** Meet dual credit requirements, complete college registration process, proof of enrollment, paid tuition, purchase college textbook(s) and provide evidence to high school by deadline

A general survey of all phases of theatre including theatre history, dramatic works, stage techniques, production procedures, and relation to the fine arts. Participation in major productions may be part of course. This is a college course and follows a college syllabus, therefore grades are only required to be reported at mid-term and semester.



# Elective Courses

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## ACADEMIC DECATHLON TEAM

**Course: 9837 | PEIMS: 85000DEC**

**Grade Placement:** 9 - 12; 1 local credit

**Prerequisites:** None

This independent study/social studies course is designed to prepare students for academic test competitions including Academic Decathlon as well as other events. Students will conduct research topics generated by annual themes in Economics, Fine Arts, Language/Literature, Math, Science, Social Studies, Speech, Interview, and Essay Writing. Although all students will study the areas required for the Academic Decathlon competition, they will be given the opportunity to specialize in U.I.L. interests

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## AP SEMINAR

**Course: 9808 | PEIMS: N1130026**

**Grade Placement:** 11 - 12; 1 elective credit

**Prerequisite:** None

AP Seminar is a year-long course that has students investigate real-world issues from multiple perspectives. Students learn to synthesize information from different sources, develop their own lines of reasoning in research-based written essays, and design and deliver oral and visual presentations, both individually and as part of a team. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

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## AP RESEARCH

**Course: 9809 | PEIMS: N1100014**

**Grade Placement:** 12; 1 elective credit

**Prerequisite:** AP Seminar

AP Research is the second course in the AP Capstone™ program. AP Seminar is a prerequisite for AP Research. If you earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of your choosing, you will receive the AP Capstone Diploma™. This signifies outstanding academic achievement and attainment of college-level academic and research skills. Alternatively, if you earn scores of 3 or higher in AP Seminar and AP Research only, you will receive the AP Seminar and Research Certificate™. Note: AP Research will only be available to students whose school is participating in the AP Capstone program.

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## AVID I (Advancement Via Individual Determination)

**Course: 9810 | PEIMS: N1290001**

**Grade Level:** 9th; 1 elective credit each year

**Prerequisite:** Application and interview

AVID targets students in the academic middle who have a desire to go to college and the willingness to work hard. Typically, they will be the first in their families to attend college. The AVID program provides support to these students by reinforcing study, organizational, and critical thinking skills. AVID students MUST take at least one Pre-AP, Dual Credit, or AP course each year to remain in the program. Students are selected to enroll in AVID through an application/interview process. Please see your guidance counselor for more information.

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## AVID II (Advancement Via Individual Determination)

**Course: 9811 | PEIMS: N1290002**

**Grade Level:** 10th; 1 elective credit each year

**Prerequisite:** Avid I and Application and interview



AVID targets students in the academic middle who have a desire to go to college and the willingness to work hard. Typically, they will be the first in their families to attend college. The AVID program provides support to these students by reinforcing study, organizational, and critical thinking skills. AVID students MUST take at least one Pre-AP, Dual Credit, or AP course each year to remain in the program. Students are selected to enroll in AVID through an application/interview process. Please see your guidance counselor for more information.

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### **AVID III (Advancement Via Individual Determination)**

**Course: 9812 | PEIMS: N1290030**

**Grade Level:** 11; 1 elective credit each year

**Prerequisite:** Avid I, II and Application and interview

AVID targets students in the academic middle who have a desire to go to college and the willingness to work hard. Typically, they will be the first in their families to attend college. The AVID program provides support to these students by reinforcing study, organizational, and critical thinking skills. AVID students MUST take at least one Pre-AP, Dual Credit, or AP course each year to remain in the program. Students are selected to enroll in AVID through an application/interview process. Please see your guidance counselor for more information.

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### **AVID IV (Advancement Via Individual Determination)**

**Course: 9813 | PEIMS: N1290033**

**Grade Level:** 12; 1 elective credit each year

**Prerequisite:** Avid I, II, II and Application and interview

AVID targets students in the academic middle who have a desire to go to college and the willingness to work hard. Typically, they will be the first in their families to attend college. The AVID program provides support to these students by reinforcing study, organizational, and critical thinking skills. AVID students MUST take at least one Pre-AP, Dual Credit, or AP course each year to remain in the program. Students are selected to enroll in AVID

through an application/interview process. Please see your guidance counselor for more information.

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### **SPECIAL TOPICS IN SOCIAL STUDIES HEBREW SCRIPTURES OLD TESTAMENT**

**Course: 4017 | PEIMS: 3380052**

**Grade Placement:** 9-12; .5 credit

**Prerequisite:** None

This course will follow federal law maintaining religious neutrality. Students will gain knowledge of biblical content, characters, poetry, and narratives that are prerequisites to understanding contemporary society and culture, including literature, art, music, mores, oratory, and public policy. It will familiarize students with the Hebrew Scriptures or New Testament and their influence on law, history, government, literature, art, music, customs, morals, values, and culture.

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### **SPECIAL TOPICS IN SOCIAL STUDIES: NEW TESTAMENT**

**Course: 4018 | PEIMS: 3380062**

**Grade Placement:** 9-12; .5 credit

**Prerequisite:** None

This course will follow federal law maintaining religious neutrality. Students will gain knowledge of biblical content, characters, poetry, and narratives that are prerequisites to understanding contemporary society and culture, including literature, art, music, mores, oratory, and public policy. It will familiarize students with the Hebrew Scriptures or New Testament and their influence on law, history, government, literature, art, music, customs, morals, values, and culture.

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**COLLEGE INTRODUCTION TO COMPUTING:  
COSC 1301 (Students seeking an Associate's  
Degree will receive first priority for enrollment)  
Course: DC9027 | PEIMS: 3580900**

**Grade Placement:** 9-12; .5 elective credit and 4 hours of college credit

**Prerequisite:** Meet dual credit requirements, complete college registration process, proof of enrollment, paid tuition, purchase college textbook(s) and provide evidence to high school by deadline

This course is one semester and provides an overview of computer systems-hardware, operating systems, and microcomputer application software, including the internet, word processing, spreadsheets, presentation graphics, and databases. Current issues such as the effect of computers on society, and the history and use of computers in business, educational, and other modern settings are also studied. This course is not intended to count toward a student's major field of study in business or computer science. This is a college course and follows a college syllabus, therefore grades are only required to be reported at mid-term and semester.

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## AP COMPUTER SCIENCE

**Grade Placement:** 10 - 12; This course is only 1 hour during the school day, but earns 2 credits: (1 Math & 1 LOTE)

**Prerequisite:** Required Algebra I; Recommended Computer Science I and Algebra II

### Math

**Course:** 2203 | PEIMS: A3580110 (CH. 74)

Students will learn about the computing tools that are used every day. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will learn the problem-solving and reasoning skills that are the foundations of computer science. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

### LOTE

**Course:** 5308 | PEIMS: A3580120

Students will learn about the computing tools that are used every day. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use

computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will learn the problem-solving and reasoning skills that are the foundation of computer science.

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## DEBATE I

**Course:** 1039 | PEIMS: 3240600

**Grade Placement:** 9 -12; 1 credit

**Prerequisite:** Course application

This course involves attendance at weekend debate tournaments. Course is an introduction to debate skills including analysis, logical and critical thinking, case construction, and speaking skills. Includes Cross Examination, debate and Lincoln Douglas debate in preparation for competition. Debate students are required to participate in tournaments, which are usually held on the weekends.

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## DEBATE II

**Course:** 1040 | PEIMS: 3240700

**Grade Placement:** 10 -12; 1 credit

**Prerequisite:** Course application

This course involves attendance at weekend debate tournaments. Course is an introduction to debate skills including analysis, logical and critical thinking, case construction, and speaking skills. Includes Cross Examination, debate and Lincoln Douglas debate in preparation for competition. This course may count as Communications Application credit. Debate students are required to participate in tournaments, which are usually held on the weekends.

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## DEBATE III

**Course:** 1041 | PEIMS: 3240800

**Grade Placement:** 11-12; 1 credit (CH. 74)

**Prerequisite:** Course application

This course involves attendance at weekend debate tournaments. Course is an introduction to debate skills including analysis, logical and critical thinking,

case construction, and speaking skills. Includes Cross Examination, debate and Lincoln Douglas debate in preparation for competition. This course may count as Communications Application credit. Debate students are required to participate in tournaments, which are usually held on the weekends.

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#### **INDEPENDENT STUDIES IN SPEECH - DEBATE IV**

**Course: 1045 | PEIMS: 3241200**

**Grade Placement:** 12; 1 credit (CH. 74)

**Prerequisite:** Course application

This course involves attendance at weekend debate tournaments. Course is an introduction to debate skills including analysis, logical and critical thinking, case construction, and speaking skills. Includes Cross Examination, debate and Lincoln Douglas debate in preparation for competition. This course may count as Communications Application credit. Debate students are required to participate in tournaments, which are usually held on the weekends.

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#### **ADVANCED JOURNALISM: NEWSPAPER I**

**Course: 1023 | PEIMS: 03230140**

**Grade Placement:** 10-12; 1 credit.

**Prerequisite:** Journalism and/or course application and contract

This course will cover the elements and process of print production, writing, editing, advertising, layout and distribution of school newspaper.

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#### **ADVANCED JOURNALISM: NEWSPAPER II**

**Course: 1024 | PEIMS: 03230150**

**Grade Placement:** 10-12; 1 credit.

**Prerequisite:** Advanced Journalism: Newspaper I

This course will cover the elements and process of print production, writing, editing, advertising, layout and distribution of school newspaper.

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#### **ADVANCED JOURNALISM: NEWSPAPER III**

**Course: 1025 | PEIMS: 03230160**

**Grade Placement:** 10-12; 1 credit. (CH. 74)

**Prerequisite:** Advanced Journalism: Newspaper II

This course will cover the elements and process of print production, writing, editing, advertising, layout and distribution of school newspaper.

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#### **ADVANCED JOURNALISM: YEARBOOK I**

**Course: 1020 | PEIMS: 03230110**

**Grade Placement:** 10-12; 1 credit.

**Prerequisite:** Course Application

This course includes the study and application of the elements and processes of developing and producing the school yearbook. Students are expected to attend a summer workshop.

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#### **ADVANCED JOURNALISM: YEARBOOK II**

**Course: 1021 | PEIMS: 03230120**

**Grade Placement:** 10-12; 1 credit. T

**Prerequisite:** Advanced Journalism: Yearbook I, Course Application

This course includes the study and application of the elements and processes of developing and producing the school yearbook. Students are expected to attend a summer workshop.

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#### **ADVANCED JOURNALISM: YEARBOOK III**

**Course: 1022 | PEIMS: 03230130**

**Grade Placement:** 11-12; 1 credit. (CH. 74)

**Prerequisite:** Advanced Journalism: Yearbook II, Course Application

This course includes the study and application of the elements and processes of developing and producing the school yearbook. Students are expected to attend a summer workshop.

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## **PEER ASSISTANCE FOR STUDENTS WITH DISABILITIES I**

**Course: 9817 | PEIMS: N1290203**

**Grade Placement:** 11 -12; 1 credit each year

**Prerequisite:** Application process

This course is designed to promote an inclusive educational environment for special education students. Peer assistants assist teachers in general education and special education settings by helping to facilitate inclusion in the classroom.

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## **PEER ASSISTANCE FOR STUDENTS WITH DISABILITIES II**

**Course: 9818 | PEIMS: N1290204**

**Grade Placement:** 11 -12; 1 credit each year

**Prerequisite:** Application process

This course is designed to promote an inclusive educational environment for special education students. Peer assistants assist teachers in general education and special education settings by helping to facilitate inclusion in the classroom.

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## **COLLEGE PUBLIC SPEAKING: SPCH 1315 (Students seeking an Associate's Degree will receive first priority for enrollment)**

**Course: DC1042 | PEIMS: 3240900**

**Grade Placement:** 9-12; .5 high school credit for Professional Communications, 3 college hours (one semester course)

**Prerequisite:** Meet dual credit requirements, complete college registration process, proof of enrollment, paid tuition, purchase college textbook(s) and provide evidence to high school by deadline

Introduces basic human communication principles and theories embedded in a variety of contexts including interpersonal, small group, and public speaking. This is a college course and follows a college syllabus, therefore grades are only required to be reported at mid-term and semester.

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## **PSYCHOLOGY**

**Course: 4005 | PEIMS: 3350100**

**Grade Placement:** 10-12; 0.5 credit

**Prerequisite:** None

This survey course introduces the students to the field of psychology. It is designed to give students a basic history of psychology, theories of learning, self-awareness, process of thinking, personality, heredity and mental health as well as a study of human growth and development.

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## **COLLEGE PSYCHOLOGY: PSYC 2301 (Students seeking an Associate's Degree will receive first priority for enrollment)**

**Course: DC4300 | PEIMS: 3350100**

**Grade Placement:** 10; .5 high school credit for Psychology, and 3 college hours (one semester course)

**Prerequisite:** Meet dual credit requirements, complete college registration process, proof of enrollment, paid tuition, purchase college textbook(s) and provide evidence to high school by deadline

Completion of this course earns high school credit for Psychology and 3 college hours from Navarro. General Psychology is a survey of the major psychological topics, theories and approaches to the scientific study of behavior and mental processes. This is a college course and follows a college syllabus, therefore grades are only required to be reported at mid-term and

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## **SOCIOLOGY**

**Course: 4006 | PEIMS: 3370100**

**Grade Placement:** 10-12; 0.5 credit

**Prerequisite:** None

This course deals with the study of people and their interaction with one another. It involves learning about institutions found in all societies, such as the family and community organizations as well as political and social activities. Broad areas of content include mobility of people, human relationships and factors in society that influence personality.

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**COLLEGE SOCIOLOGY: SOCI (Students seeking an Associate's Degree will receive first priority for enrollment)**

**Course: DC4301 | PEIMS: 3370100**

**Grade Placement:** 10; .5 high school credit for sociology, and 3 college hours (one semester course)

**Prerequisite:** Meet dual credit requirements, complete college registration process, proof of enrollment, paid tuition, purchase college textbook(s) and provide evidence to high school by deadline

Completion of this course earns high school credit for Sociology and 3 college hours from Navarro. The scientific study of human society, including ways in which groups, social institutions, and individuals affect each other. Causes of social stability and social change are explored through the application of various theoretical perspectives, key concepts, and related research methods of sociology. Analysis of social issues in their institutional context may include topics such as social stratification, gender, race/ethnicity, and deviance. This is a college course and follows a college syllabus, therefore grades are only required to be reported at mid-term and semester.

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**AP PSYCHOLOGY**

**Course: 4206 | PEIMS: A3350100**

**Grade Placement:** 11-12; (.5 credit AP social studies for the AP Psychology; .5 credit regular social studies for Special Topics in Social Studies)

**Prerequisite:** Special Topics in Social Studies is only to be taken if AP Psychology is taken in the fall

This course introduces students to the systematic and scientific study of the behavioral and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles and phenomena associated with each of the major subfields within psychology. Students in the course should take the Advanced Placement Examination in Psychology. This course is paired with Special Topics in Social Studies. AP Psychology to be taken in the fall semester, while

Special Topics in Social Studies is taken in the spring. The district expectation is that the student will take the appropriate AP Exam for each AP course in which he/she is enrolled.

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**VISUAL MEDIA ANALYSIS AND PRODUCTION**

**Course: 1012 | PEIMS: 3221700**

**Grade Placement:** 9 - 12; .5 credit

**Prerequisite:** None

In this course, students will interpret various media forms for a variety of purposes. In addition, students will critique and analyze the significance of visual representations and learn to produce media messages that communicate with others.

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**STUDENT LEADERSHIP - STUDENT COUNCIL**

**Course: 9822 | PEIMS: N1290010**

**Grade Placement:** 11-12; 1 credit

**Prerequisite:** Course application

This course provides opportunities to study, practice and develop group and individual leadership and organizational skills. These skills include decision-making skills, problem-solving techniques, communication skills, leadership roles, human relation skills and understanding the need for civic responsibility. Students enrolled in the course will apply these skills in dealing with peers, school administration and the community.

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**PEER ASSISTANCE AND LEADERSHIP I**

**Course: 9815 | PEIMS: N1290005**

**Grade Placement:** 11-12; 1 credit

**Prerequisite:** Course application

This laboratory-based course is designed to involve students in realistic and meaningful community-based activities through direct service experiences. Students are provided opportunities to interact 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.

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### **ETHNIC STUDIES: MEXICAN AMERICAN STUDIES**

**Course: 4021 | PEIMS: 3380084**

**Grade Placement:** 10-12; 1.0 credit

**Prerequisite:** None

Mexican American Studies, an elective course, students learn about the history and cultural contributions of Mexican Americans. Students explore history and culture from an interdisciplinary perspective. The course emphasizes events in the 20th and 21st centuries, but students will also engage with events prior to the 20th century.

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### **ETHNIC STUDIES: AFRICAN AMERICAN STUDIES**

**Course: 9839 | PEIMS: N1130027**

**Grade Placement:** 9-12; 1.0 credit

**Prerequisite:** None

African American Studies is a conceptually driven course that introduces students to the exploration of the rich and diverse history and culture of African Americans. The goal of this course is to broaden the knowledge and understanding of students interested in learning about history, citizenship, culture, economics, science, technology, geography, and the political realities of African Americans. These strands should not be taught in isolation but woven together in an integrated study that helps students understand the world in which we live. This course should provide students with an opportunity to engage with the social, economic, and political activities of African Americans in a way that allows them to make deep connections across the content. The historical content of this course should be taught with relevance to contemporary and current issues in order to ensure a deeper understanding for students.

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### **PEER ASSISTANCE AND LEADERSHIP II**

**Course: 9816 | PEIMS: N1290006**

**Grade Placement:** 11-12; 1 credit

**Prerequisite:** PAL I, Course application

This laboratory-based course is designed to involve students in realistic and meaningful community-based activities through direct service experiences. Students are provided opportunities to interact 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.

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### **SPORTS MEDICINE I**

**Course: 9819 | PEIMS: N1150040**

**Grade Placement:** 9-12 1 credit

**Prerequisite:** application and approval of instructor

This course is designed for students in the student athletic training program and it provides an in-depth study and application of the components of sports medicine, including but not limited to: basic rehabilitation techniques, therapeutic modalities, wound care, prevention, recognition and care of musculoskeletal injuries.

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### **SPORTS MEDICINE II**

**Course: 9820 | PEIMS: N1150041**

**Grade Placement:** 9-12; 1 credit

**Prerequisite:** application and approval of instructor

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

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### **PSAT, ACT, SAT PREP**

**Course: 9838 | PEIMS: 85000SAT**

**Grade Placement:** 11-12; .5 credit (local credit)

***Prerequisite:*** None

This course is designed to help students prepare for the rigors of taking the PSAT and/or SAT tests offered by the College Board. Our primary goal is to identify and implement test taking strategies using prerequisite knowledge to increase student performance.

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**RESERVE OFFICERS TRAINING CORPS (ROTC) I**  
**Course: 9800 | PEIMS: 03160100**

***Grade Placement:*** 9-12; 1 credit

***Prerequisite:*** None

JROTC program has been accredited as a Special Purpose Program by the national accrediting agency known as AdvancED. JROTC curriculum provides equitable and challenging academic content and authentic learning experiences for all Cadets. All

lessons are designed using a four part model to motivate the Cadet, allow the Cadet to learn new information, practice competency, and apply the competency to a real-life situation. Moreover, the four part model requires Cadets to collaborate, reflect, develop critical thinking skills, and integrate content with other disciplines. JROTC curriculum includes lessons in leadership, health and wellness, physical fitness, first-aid, geography, American history and government, communications, and emotional intelligence.

This program is only offered at Midlothian High School. Heritage High School students wishing to enroll in the course will need to transfer to Midlothian High School and become a full-time student at Midlothian High School. Procedures for transfer will be provided after enrollment in the course.

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# Midlothian Career and Technical Education

This section of the handbook is designed to help students select an educational plan and courses that are appropriate to their needs and career interest. The career and technical education program includes courses that provide a solid background for advanced college training in various fields, on-the-job training and usable skills upon graduation from Midlothian High School and Heritage High School.

School counselors will work with eighth grade parents and students to design their individual academic career plan. During their high school years, students will review and revise as needed their Personal Graduation Plan.

Once students have chosen a career cluster(s), they are encouraged to select Career and Technology (CTE) classes that will best prepare them to move toward their chosen endorsement and career field. To search for an endorsement, study the career clusters offered at MHS and MHHS to find one that best corresponds to your interest, abilities, and future plans. Students should carefully consider college admission requirements as he/she selects courses. MHS and MHHS then suggest you take the electives within your chosen Endorsement to help prepare you for your future.

## Business and Industry Endorsement

Career Clusters
Arts, Audio, Visual, Technology, and Communications
Agriculture, Food, and Natural Resources
Architecture and Construction
Business Management & Administration
Hospitality and Tourism
Informational Technology
Manufacturing
Marketing
Transportation, Distribution, and Logistics

*A student may earn a business and industry endorsement by completing the Foundations of High School Program and a coherent sequence of courses for four or more credits in CTE that consists of at least two courses in the same career cluster and at least one advanced CTE course. The courses may be selected from CTE courses with the final course in the sequence being selected from the Business and Industry cluster.*



# Business & Industry Endorsement

## Agriculture, Food and Natural Resources Cluster

### PRINCIPLES OF AGRICULTURE, FOOD AND NATURAL RESOURCES

Course: 8000 | PEIMS: 13000200

**Grade Placement:** 9-10, 1 credit

**Prerequisite:** None

The major purpose of the Principles of Agriculture, Food, and Natural Resources (AFNR) course is to introduce students to the world of agriculture and the pathways they may pursue within the Midlothian Agriculture program of study. The course is structured to enable all students to have a variety of experiences that will provide an overview of the fields of agricultural science and natural resources so that students may continue through a sequence of courses through high school. In addition, students will understand specific connections between their lessons and Supervised Agricultural Experience projects and FFA components that are important for the development of an informed agricultural education student. Students will investigate, experiment, and learn about FFA history, speech communications, leadership, wildlife management, archery, livestock, woodworking, and welding.

### AGRIBUSINESS MANAGEMENT AND MARKETING

Course: 8009 | PEIMS: 13000900

**Grade Placement:** 10-12; 1 credit

**Recommended Prerequisite:** Principles of Ag, Food, and Natural Resources

Agribusiness Management and Marketing is designed to provide a foundation to agribusiness management and the free enterprise system. Instruction includes the use of economic principles such as supply and demand, budgeting, record keeping, finance, risk management, business law, marketing, and careers in agribusiness.

### LANDSCAPE DESIGN AND MANAGEMENT

Course: 8028 | PEIMS: 13001900

**Grade Placement:** 10 - 12; .5 credit

**Recommended Prerequisite:** Principles of Ag, Food, and Natural Resources

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

### WILDLIFE, FISHERIES AND ECOLOGY MANAGEMENT

Course: 8020 | PEIMS: 13001500

**Grade Placement:** 9-12, 1 credit

**Recommended Prerequisite:** Principles of Ag, Food, and Natural Resources

This course provides knowledge and skills related to the management of game and nongame wildlife species, fish, and aqua crops and their ecological needs as related to current agricultural practices.

### LIVESTOCK PRODUCTION

Course: 8001 | PEIMS: 13000300

**Grade Placement:** 10-12, 1 credit

**Recommended Prerequisite:** Principles of Ag, Food, and Natural Resources

In Livestock Production, students will acquire knowledge and skills related to livestock and the

livestock production industry. Livestock Production may address topics related to beef cattle, dairy cattle, swine, sheep, goats, and poultry.

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### **ADVANCED ANIMAL SCIENCE**

**Course: 8007 | PEIMS: 13000700**

**Grade Placement:** 11-12, 1 credit (CH. 74)

**Prerequisite:** Biology and Chemistry or Integrated Physics and Chemistry (IPC); Algebra I and Geometry; and either Small Animal Management, Equine Science, or Livestock Production. Students must meet the 40% laboratory and fieldwork requirement.

*This is a CTE course that will satisfy a high school science graduation requirement.*

Advanced Animal Science examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. This class meets off-campus at the MISD Ag. Barn. Students must provide their own transport to class.

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### **ADVANCED PLANT AND SOIL SCIENCE**

**Course: 8034 | PEIMS: 13002100**

**Grade Placement:** 11 - 12; 1 credit (CH. 74)

**Recommended prerequisites:** Biology, Integrated Physics and Chemistry, Chemistry, or Physics and a minimum of one credit from the courses in the Agriculture, Food, and Natural Resources Career Cluster. Students must meet the 40% laboratory and fieldwork requirement.

*This is a CTE course that will satisfy a high school science graduation requirement.*

Advanced Plant and Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. To prepare for careers in plant and soil science,

students must attain academic skills and knowledge, acquire technical knowledge and skills related to plant and soil science and the workplace.

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### **PRACTICUM IN AGRICULTURE, FOOD & NATURAL RESOURCES**

**Course: 8043 | PEIMS: 13002500**

**Grade Placement:** 12, 2 credits

**Prerequisite:** Principles of Ag, Food, and Natural Resources; application process

**Recommended prerequisite:** a minimum of one credit from the courses in the Agriculture, Food, and Natural Resources Career Cluster.

*A student may repeat this course once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills.*

The students will develop advanced supervised experience in the career fields related to agriculture, food, and natural resources. Students will be involved in a well-rounded program in agriculture.

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### **AGRICULTURAL MECHANICS & METAL TECHNOLOGIES**

**Course: 8035 | PEIMS: 13002200**

**Grade Placement:** 10-12, 1 credit

**Recommended prerequisite:** Principles of Agriculture, Food, and Natural Resources.

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 metalworking 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.

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## **AGRICULTURE STRUCTURES DESIGN & FABRICATION**

**Course: 8036 | PEIMS: 13002300**

**Grade Placement:** 11-12, 1 credit

**Recommended prerequisite:** *Agricultural Mechanics and Metal Technologies.*

This course will prepare students for careers in mechanized agriculture and technical systems. The student will learn principles of facility design including building plans, costs, and environmental control systems.

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## **AGRICULTURAL POWER SYSTEMS**

**Course: 8041 | PEIMS: 13002400**

**Grade Placement:** 12, 2 credits

**Recommended prerequisite:** *Principles of Agriculture, Food, and Natural Resources. Application process.*

This course is designed to prepare students for careers in Ag Power, structure and technical systems. Students will prepare for current industry and societal standards such as standard tools, equipment, and safety procedures. Students will learn to select, operate, and maintain small engines and agricultural machines.

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## **MATHEMATICAL APPLICATIONS IN AG, FOOD AND NATURAL RESOURCES**

**Course: 8011 | PEIMS: 13001000**

**Grade Placement:** 10-12, 1 credit (CH. 74)

**Recommended prerequisite:** *Algebra 1*

In this course, students will apply knowledge and skills related to mathematics, including algebra, geometry, and data analysis in the context of agriculture, food, and natural resources. To prepare for careers in agriculture, food, and natural resources, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics.

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## **EQUINE SCIENCE**

**Course: 8004 | PEIMS: 13000500**

**Grade Placement:** 10-12, .5 credit

**Recommended prerequisite:** *None*

This course is designed to introduce students to the scientific principles of equine animal systems and to the equine industry. To prepare for careers in the field of animal science, students must enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.

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## **FLORAL DESIGN I**

**Course: 8014 | PEIMS: 13001800**

**Grade Placement:** 9-12, 1 credit

**Recommended prerequisite:** *None*

Floral design is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students will develop respect for the traditions and contributions of diverse cultures. Students will respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgements and evaluations.

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## **ADVANCED FLORAL DESIGN**

**Course: 8015 | PEIMS: N1300270**

**Grade Placement:** 11-12, 1 credit

**Recommended prerequisite:** *Floral Design I*

In this course, students build on the knowledge from the Floral Design course and are introduced to more advanced floral design concepts, with an emphasis on specialty designs and specific occasion planning. This course focuses on building skills in advanced floral design and providing students with a thorough understanding of the design elements and planning techniques used to produce unique specialty floral

designs that support the goals and objectives of a specific occasion or event. Through the analysis and evaluation of various occasion and event types, students explore the design needs and expectations of clients and propose and evaluate appropriate creations. From conception to evaluation, students are challenged to create and design appropriate specialty floral designs that meet the needs of the client. Furthermore, an emphasis on budgetary adherence and entrepreneurship equips students with many of the necessary skills needed for success in floral enterprises.

# Business & Industry Endorsement

## Arts, A/V Technology and Communication Cluster

### PRINCIPLES OF ARTS, A/V TECHNOLOGY AND COMMUNICATION

**Course: 8100 | PEIMS: 13008200**

**Grade Placement:** 9-10, 1 credit.

**Prerequisite:** None

To be successful in this course a student should have a strong background in computer and technology, creative attitude, a strong academic foundation, and a proficiency in oral and written communication.

### AUDIO/VIDEO PRODUCTION I

**Course: 8109 | PEIMS: 13008500**

**Grade Placement:** 11-12, 1 credit

**Recommended prerequisite:** Principles of Arts, Audio/Video Technology, and Communications. Application process/instructor approval.

This course will help students interested in careers in audio/visual technology and film production. Students will be expected to develop an understanding of pre-production, production, and post production audio/visual activities as well as strong communication skills. Requires participation in after school events, some of which may be compensated. (10<sup>th</sup> Grade Digital and Interactive Media)

### AUDIO/VIDEO PRODUCTION II

**Course: 8112 | PEIMS: 13008610**

**Grade Placement:** 12, 1 credit

**Prerequisite:** Audio/Video Production I, Application process/instructor approval.

This course is an extension of Audio/Video Production. In this course, the students employ communication and leadership skills, problem-solving, conflict resolution, effective working

relationships, and displays knowledge of digital and recording equipment. Requires participation in after-school events, some of which may be compensated.

### PRACTICUM IN AUDIO/VISUAL PRODUCTION

**Course: 8113 | PEIMS: 13008700**

**Grade Placement:** 11-12, 2 Credits

**Prerequisites:** Audio/Video Production II.

Careers in audio and video technology and film production span all aspects of the audio-video communications industry. Within this context, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production, and post-production audio and video activities in a studio environment.

### VIDEO GAME DESIGN

**Course: 8152 | PEIMS: 13009970**

**Grade Placement:** 10-12; 1 credit

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

The student will be provided the opportunity to design, program, and create a functional video game. The course will introduce basic programming language and skills that are essential to developing a video game. Topics covered are mathematics, physics, design, and computer programming.

### VIDEO GAME PROGRAMMING

**Course: 8153 | PEIMS: N1300994**

**Grade Placement:** 10-12; 1 credit

**Prerequisite:** Successful completion of Video Game Design I

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

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## **ADVANCED VIDEO GAME PROGRAMMING**

**Course: 8154 | PEIMS: N1300995**

**Grade Placement:** 11-12

**Prerequisites:** Successful completion of Video Game Programming

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

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## **GRAPHIC DESIGN AND ILLUSTRATION**

**Course: 8117 | PEIMS: 13008800**

**Grade Placement:** 10-12, 1 Credit

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

Graphic Design and Illustration spans all aspects of the ad advertising and visual communication 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 are expected to develop an understanding of the

industry with a focus on fundamental elements and principles of visual art and design.

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## **GRAPHIC DESIGN AND ILLUSTRATION II**

**Course: 8119 | PEIMS: 13008900**

**Grade Placement:** 10-12, 1 Credit

**Prerequisite:** Graphic Design and Illustration I.

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.

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## **GRAPHIC DESIGN AND ILLUSTRATION II with LAB**

**Course: 8120 | PEIMS: 13008910**

**Grade Placement:** 10 - 12; 2 credits

**Prerequisites:** Graphic Design and Illustration I.

This course will 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.

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## **FASHION DESIGN I**

**Course: 8133 | PEIMS: 13009300**

**Grade Placement:** 10 - 12; 1 credit

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

This course will 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.

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This course fulfills the state requirement for speech credit for students in the class of 2017. Students prepare for audience presentations and will learn speaking skills.

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### **COMMERCIAL PHOTOGRAPHY**

**Course: 8125 | PEIMS: 13009100**

***Grade Placement:*** 9 - 12; 1 credit

***Prerequisites:*** None

This course requires skills that span all aspects of the industry from setting up a shot to delivering products in a competitive market. In addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the commercial photography industry with a focus on creating quality photographs.

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### **PRINTING AND IMAGING TECHNOLOGY**

**Course: 8141 | PEIMS: 13009600**

***Grade Placement:*** 9 - 12; 1 credit

***Prerequisites:*** None

Careers in printing span all aspects of the industry, including prepress, press, and finishing and bindery operations. 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 printing industry with a focus on digital prepress and digital publishing.

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### **PROFESSIONAL COMMUNICATIONS**

**Course: 8419 | PEIMS: 13009900**

***Grade Level:*** 9-12; .5 credit

***Prerequisite:*** None; state required speech course



# Business & Industry Endorsement

## Architecture and Construction Cluster

### HVAC Technician Pathway – TSTC

Students will have access to industry-standard labs on high-efficiency heating and air conditioning equipment, heat pumps, refrigeration, and a 200-ton chilled water system. Students will learn the beginning skills to service both commercial and residential HVAC systems.

#### HEAT, VENTILATION, AND AIR CONDITIONING (HVAC) AND REFRIGERATION TECHNOLOGY I

**HART 1301/BASIC ELECTRICITY FOR HVAC**  
Course: 8227 | PEIMS: 13005800

**Grade Placement:** 10 - 11; 1 credit  
**Prerequisites:** None

Principles of electricity as required by HVAC including proper use of test equipment, electrical circuits, and component theory and operation. This course is a dual enrollment course offered at TSTC Red Oak. Enrollment requirements for TSTC must be met including payment for course by credit hour. See TSTC's website for course fee information.

#### HEAT, VENTILATION, AND AIR CONDITIONING (HVAC) AND REFRIGERATION TECHNOLOGY II

**HART 1307/REFRIGERATION PRINCIPLES**  
Course: 8228 | PEIMS: 13005900

**Grade Placement:** 10-11; 2 credits  
**Prerequisites:** HART 1301

An introduction to the refrigeration cycle heat transfer theory, temperature/pressure relationship, refrigerant handling, refrigeration components and safety. This course is a dual enrollment course offered at TSTC Red Oak. Enrollment requirements for TSTC must be met including payment for course by credit hour. See TSTC's website for course fee information.

#### PRACTICUM IN CONSTRUCTION TECHNOLOGY 1<sup>ST</sup> TIME TAKEN

#### HART 1310/HVAC SHOP PRACTICES AND TOOLS

Course: 8231 | PEIMS: 13005250

**Grade Placement:** 11-12; 2 credits  
**Prerequisites:** HART 1301, HART 1307

Tools and instruments used in the HVAC industry. Includes proper application use and care of these tools and tubing and piping practices. This course is a dual enrollment course offered at TSTC Red Oak. Enrollment requirements for TSTC must be met including payment for course by credit hour. See TSTC's website for course fee information.

#### PRACTICUM IN CONSTRUCTION TECHNOLOGY 2<sup>ND</sup> TIME TAKEN

**HART 1345/GAS AND ELECTRIC HEATING**  
Course: 8232 | PEIMS: 13005260

**Grade Placement:** 11-12; 3 credits  
**Prerequisites:** HART 1301 grade of B or better, HART 1307

Study of procedures and principles used in servicing heating systems including gas fired furnaces and electric heating systems. This course is a dual enrollment course offered at TSTC Red Oak. Enrollment requirements for TSTC must be met including payment for course by credit hour. See TSTC's website for course fee information.

#### PLUMBING TECHNOLOGY I

Course: 8229 | PEIMS: 13006000

**Grade Placement:** 10 - 12; 1 credit  
**Prerequisites:** None



In this course, students will gain knowledge and skills needed to enter the industry as a plumbing apprentice, building maintenance technician, or supervisor or prepare for a postsecondary degree in construction management, architecture, or engineering. Students will acquire knowledge and skills in industry workplace basics and employer/customer expectations, including how to use a plumbing code book; how to identify and use power and hand tools; how to be safe on the jobsite and when using hand and power tools; how to apply basic plumbing mathematics and plumbing drawing;

and how to identify, fit, and use plastic, copper, cast iron, carbon steel, and corrugated stainless steel pipe. In addition, students will be introduced to gas, drainage, and water supply systems and continue their knowledge of workplace basics and green technologies.

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# Business & Industry Endorsement

## Transportation, Distribution and Logistics Cluster

### Diesel Equipment Technology Pathway - TSTC

The Diesel Equipment Technology program provides courses designed to prepare students for diesel equipment service and repair careers. Students will learn the hands-on skills needed to service and repair diesel equipment on trucks, buses and other vehicles. These courses are offered at TSTC (Texas State Technical College) in Red Oak.

#### OCCUPATIONAL SAFETY & ENVIRONMENTAL TECHNOLOGY

##### DEMR 1301/SHOP SAFETY PROCEDURES

Course: 8045 | PEIMS: N1303680

**Grade Placement:** 10 - 11; 1 credit

**Prerequisites:** None

A study of shop safety rules, basic shop tools and test equipment. This course is a dual enrollment course offered at TSTC Red Oak. Enrollment requirements for TSTC must be met including payment for course by credit hour. See TSTC's website for course fee information.

#### DIESEL EQUIPMENT TECHNOLOGY I

##### DEMR 1317/BASIC BRAKE SYSTEMS

Course: 8046 | PEIMS: 13040150

**Grade Placement:** 10 - 11; 2 credits

**Prerequisites:** Completion of DEMR 1301

Basic principles of brake systems of diesel powered equipment. Emphasis on maintenance repairs and troubleshooting. This course is a dual enrollment course offered at TSTC Red Oak. Enrollment requirements for TSTC must be met including payment for course by credit hour. See TSTC's website for course fee information.

#### DIESEL EQUIPMENT TECHNOLOGY II

##### DEMR 1410/DIESEL ENGINE TESTING AND REPAIR I

Course: 8047 | PEIMS: 13040160

**Grade Placement:** 11-12; 2 credits

**Prerequisites:** Completion of DEMR 1301, DEMR 1307

An introduction to testing and repairing diesel engines including related systems and specialized tools. This course is a dual enrollment course offered at TSTC Red Oak. Enrollment requirements for TSTC must be met including payment for course by credit hour. See TSTC's website for course fee information.

#### DIESEL EQUIPMENT TECHNOLOGY II/ADVANCED TRANSPORTATION SYSTEMS LABORATORY

##### DEMR 2412/DIESEL ENGINE TESTING AND REPAIR II

Course: 8048 | PEIMS: 13040160

**Grade Placement:** 11-12; 3 credits

**Prerequisites:** Completion of DEMR 1301, DEMR 1307, DEMR 1410

Continuation of diesel engine testing and repair. This course is a dual enrollment course offered at TSTC Red Oak. Enrollment requirements for TSTC must be met including payment for course by credit hour. See TSTC's website for course fee information.

# Business & Industry

## Business Management

### PRINCIPLES OF BUSINESS, MARKETING AND FINANCE

**Course: 8300 | PEIMS: 13011200**

**Grade Placement:** 9-11, 1 credit

**Prerequisite:** None

Students gain knowledge and skills in economies and private enterprise systems, impact of global business, marketing of goods and services, advertising, and product pricing.

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### BUSINESS INFORMATION MANAGEMENT I

**Course: 8302 | PEIMS: 13011400**

**Grade Placement:** 9-12, 1 Credit

**Prerequisite:** None

Students gain knowledge and skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate databases and make electronic presentations using appropriate software. Touch System Data Entry will be taught concurrently with BIM I so students will earn 1.5 credit for this course.

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### BUSINESS MANAGEMENT

**Course: 8311 | PEIMS: 13012100**

**Grade Placement:** 10-12, 1 credit

**Prerequisite:** None

Students will analyze social responsibility for business and industry regarding the significant issues relating to the legal environment, business ethics, torts, contracts, negotiable financial instruments, personal property, sales, employment and real estate.

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### VIRTUAL BUSINESS

**Course: 8310 | PEIMS: 13012000**

**Grade Placement:** 10 - 12; .5 credit

**Prerequisites:** None

This course is designed for students to start a virtual business by creating a web presence, conducting online and offline marketing, examining contracts appropriate for an online business, and demonstrating project-management skills. Students will also demonstrate bookkeeping skills for a virtual business, maintain business records, and understand legal issues associated with a virtual business.

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### HUMAN RESOURCE MANAGEMENT

**Course: 8309 | PEIMS: 13011900**

**Grade Placement:** 11 - 12; .5 credit

**Prerequisite:** None

This course is designed to familiarize students with the concepts related to human resource management, including legal requirements, recruitment and employee selection methods, and employee development and evaluation. Students will also become familiar with compensation and benefits programs as well as workplace safety, employee-management relations, and global impacts on human resources.

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### PRACTICUM IN BUSINESS

**Course: 8312 | PEIMS: 13012200**

**Grade Placement:** 12, 2 credits

**Recommended prerequisites:** Any Business, Marketing or Finance course. A student may repeat this course once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills.

Students apply technical skills to address business applications of emerging technologies. They will

develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers and employees. This is a work-based learning program. Students must have and maintain a job to remain in the program. Work based employment may be paid or unpaid internships to fulfill the course requirements.

*(Only offered at The MILE)*

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## **BUSINESS ENGLISH**

**Course: 8306 | PEIMS: 13011600**

**Grade Placement:** 12; 1 credit *(Can take the place of English IV) (CH. 74)*

**Recommended Prerequisite:** English I, II, and III

In Business English, students enhance communication and research skills by applying them to the business environment, in addition to exchanging information and producing properly formatted business documents using emerging technology.

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## **BUSINESS LAW**

**Course: 8707 | PEIMS: 13011700**

**Grade Placement:** 11-12; 1 credit

**Recommended Prerequisite:** None

Business Law is designed for students to analyze various aspects of the legal environment, including ethics, the judicial system, contracts, personal property, sales, negotiable instruments, agency and employment, business organization, risk management, and real property.

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## **GLOBAL BUSINESS**

**Course: 8308 | PEIMS: 13011800**

**Grade Placement:** 10-12; .5 credit

**Recommended Prerequisite:** None

Global Business is designed for students to analyze global trade theories, international monetary systems, trade policies, politics, and laws relating to

global business as well as cultural issues, logistics, and international human resource management.

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## **BUSINESS LAB**

**Course: 8303 | PEIMS: 13011410**

**Grade Placement:** TBD

**Recommended Prerequisite:** TBD

Business Lab is designed to provide students an opportunity to further enhance skills of previously studied knowledge and skills and may be used as an extension of Business Information Management I or Business Information Management II; it is a recommended corequisite course, and may not be offered as a stand-alone course. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.

# Business & Industry

## Finance

### PRINCIPLES OF BUSINESS, MARKETING AND FINANCE

**Course: 8300 | PEIMS: 13011200**

**Grade Placement:** 9-11, 1 credit

**Prerequisite:** None

Students gain knowledge and skills in economies and private enterprise systems, impact of global business, marketing of goods and services, advertising, and product pricing.

### ACCOUNTING I

**Course: 8504 | PEIMS: 13016600**

**Grade Placement:** 10 - 12; 1 credit

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

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

### FINANCIAL MATHEMATICS

**Course: 8508 | PEIMS: 13018000**

**Grade Placement:** 10-12; 1 credit (CH. 74)

**Prerequisite:** *Successful completion of Algebra I. This is a CTE course that will satisfy a high school math graduation requirement.*

This course is designed to integrate personal financial education, career discovery, postsecondary education planning, and reality-based math with critical thinking, problem solving, team building, and project based learning. It is challenging and

engaging, offering students a comprehensive view of real life, including credit-card debt, health care options, income tax preparation, retirement planning, etc.

### PRACTICUM IN BUSINESS

**Course: 8312 | PEIMS: 13012200**

**Grade Placement:** 12, 2 credits

**Recommended prerequisites:** *Any Business, Marketing or Finance course. A student may repeat this course once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills.*

Students apply technical skills to address business applications of emerging technologies. They will develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers and employees. This is a work-based learning program. Students must have and maintain a job to remain in the program. Work based employment may be paid or unpaid internships to fulfill the course requirements.

*(Only offered at The MILE)*

### BUSINESS ENGLISH

**Course: 8306 | PEIMS: 13011600**

**Grade Placement:** 12; 1 credit (Can take the place of English IV) (CH. 74)

**Recommended Prerequisite:** *English I, II, and III*

In Business English, students enhance communication and research skills by applying them to the business environment, in addition to exchanging information and producing properly formatted business documents using emerging technology.

# Business & Industry

## Hospitality and Tourism

### PRINCIPLES OF HOSPITALITY & TOURISM

Course: 8800 | PEIMS: 13022200

**Grade Placement:** 9-10, 1 credit

**Prerequisite:** None

Principles of Hospitality and Tourism introduces students to an industry that encompasses lodging, travel and tourism, recreation, amusements, attractions, and food/beverage operations. Students learn knowledge and skills focusing on communication, time management, and customer service that meet industry standards. Students will explore the history of the hospitality and tourism industry and examine characteristics needed for success in that industry.

### INTRODUCTION TO CULINARY ARTS

Course: 8803 | PEIMS: 13022550

**Grade Placement:** 9-12, 1 Credit

**Prerequisites:** None

This course will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant.

### CULINARY ARTS

Course: 8804 | PEIMS: 13022600

**Grade Placement:** 11-12, 2 credits

**Recommended prerequisites:** Introduction to Culinary Arts.

*Application process with teacher approval*

This course focuses on the fundamentals and principles of the art of cooking, science of baking, and includes management and production skills and techniques.

*(Only offered at The MILE)*

### ADVANCED CULINARY ARTS

Course: 8805 | PEIMS: 13022650

**Grade:** 11-12, 2 Credits

**Prerequisite:** Culinary Arts

This course extends content and enhances skills introduced in culinary arts by infusing high-level, industry-driven content to prepare students for success in higher education, certifications, and/or immediate employment. This mid-level course will increase students' depth of knowledge and experience in specific areas including baking, protein selection, advanced nutrition, and sustainability. Students will trace the origin of food recipes and preparation. They will be able to apply the USDA regulatory method of grading food as they select items for production. Students will differentiate between front and back of the house roles and how these areas work together to create a successful operation. Students will prepare for national certifications that will provide them an advantage for scholarships, college admittance, and employment.

*(Only offered at The MILE)*

### PRACTICUM IN CULINARY ARTS

Course: 8806 | PEIMS: 13022700

**Grade Placement:** 12, 2 credits

**Prerequisite:** Culinary Arts I, Application process with teacher approval.

This course is a unique practicum that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with business and industry experience. Enrollment in Practicum in Culinary Arts requires a commitment to before and after school events.

(Only offered at The MILE)

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## **PRACTICUM IN CULINARY ARTS II**

**Course: 8808 | PEIMS: 13022710**

**Grade Placement:** 12, 2 credits

**Prerequisite:** *Practicum in Culinary Arts, Application process with teacher approval.*

This course is a unique practicum that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with business and industry experience. Enrollment in Practicum in Culinary Arts requires a commitment to before and after school events.

(Only offered at The MILE)

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## **FOOD SCIENCE**

**Course: 8815 | PEIMS: 13023000**

**Grade Placement:** 11-12, 1 credit (CH. 74)

**Prerequisite:** *Three units of science, including Chemistry and 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, the principles underlying food processing, and the improvement of foods for the consuming public. Students must meet the 40% laboratory and fieldwork requirement. This course satisfies a high school science graduation requirement.

(Only offered at The MILE)

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## **HOSPITALITY SERVICES**

**Course: 8810 | PEIMS: 13022800**

**Grade Placement:** 11-12, 2 credits

**Prerequisite:** *None*

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

(Only offered at The MILE)

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## **FOUNDATIONS IN RESTAURANT MANAGEMENT**

**Course: 8816 | PEIMS: N1302268**

**Grade Placement:** 11-12

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

Foundations of Restaurant Management provides students with a foundation to understand basic culinary skills and food service-restaurant management, along with current food service-restaurant industry topics and standards. Building on prior instruction, this course provides introductory insight into critical thinking, financial analysis, industry technology, social media, customer awareness and leadership in the food service-restaurant industry. Students will gain an understanding of food service-restaurant operations and the importance of communicating effectively to diverse audiences, purposes and situations in food service-restaurant operations and management. Students will learn how the front of the house and the back of the house of management operate and collaborate and obtain value-added certifications in the industry to help launch themselves into restaurant/foodservice careers.

(Only offered at The MILE)

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# Business & Industry

## Information Technology

### PRINCIPLES OF INFORMATION TECHNOLOGY

Course: 9000 | PEIMS: 13027200

**Grade Placement:** 9, 1 credit

**Prerequisite:** None

Students develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment.

### DIGITAL MEDIA

Course: 9009 | PEIMS: 13027800

**Grade Placement:** 9-12, 1 credit

**Prerequisite:** None.

In Digital Media, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will enhance reading, writing, computing, communication, and critical thinking and apply them to the IT environment.

### PRACTICUM IN INFORMATION TECHNOLOGY

Course: 9010 | PEIMS: 13028000

**Grade Placement:** 12, 2 credits

**Recommended Prerequisites:** minimum of 2 IT courses

In the Practicum in Information Technology, students will gain advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services, and systems. Knowledge and skills in the proper use of analytical skills and application of IT concepts and standards are

essential to prepare students for success in a technology-driven society.

(Only offered at The MILE)

### FOUNDATIONS OF CYBERSECURITY

Course: 9041 | PEIMS: 03580850

**Grade Placement:** 9-12, 1 credit

**Recommended Prerequisites:** None

This course develops the knowledge and skills needed to master fundamental concepts of cybersecurity. Students in the course will develop a basic foundation for continuing their cybersecurity education and choosing a career in the cybersecurity field. Students will explore the challenges facing information security professionals related to ethics, system security, network security, and application security. Students will conduct risk assessments and develop and implement security policies to mitigate those risks. Students will examine trends in cyberattacks, common vulnerabilities, and the emergence of cyber terrorism.

### INTERNETWORKING TECHNOLOGIES I

Course: 9016 | PEIMS: N1302803

**Grade Placement:** 10-12, 1 credit

**Recommended Prerequisites:** Principles of Cybersecurity

The Internetworking Technologies I course introduces the concept of networking, using various analogies to help the student understand the movement of packets throughout the Internet, and the protocol standards used. The Routing and Switching course moves the student into the theory of "moving packets." The concepts of routing and switching "packets" to the correct destination is covered, and how a network administrator can direct and/or streamline this process through device configuration and deployment.

### INTERNETWORKING TECHNOLOGIES II

Course: 9017 | PEIMS: N1302804



**Grade Placement:** 10-12, 1 credit

**Recommended Prerequisites:** Internetworking Technologies I

The Internetworking Technologies II covers the architecture, components, and operations of routers and switches in larger and more complex networks. Students learn how to configure routers and switches for advanced functionality. The course enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements.

*(Only offered at The MILE)*

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### **CYBERSECURITY CAPSTONE**

**Course: 9042 | PEIMS: 03580855**

**Grade Placement:** 11-12, 1 credit

**Recommended Prerequisites:** None

In the Cybersecurity Capstone course, students will develop the knowledge and skills needed to explore advanced concepts related to the ethics, laws, and operations of cybersecurity. Students will examine trends and operations of cyberattacks, threats, and vulnerabilities. Students will develop security policies to mitigate risks. The skills obtained in this course prepare students for additional study toward industry certification. A variety of courses are available to students interested in the cybersecurity field. Cybersecurity Capstone may serve as a culminating course in this field of study.

*(Only offered at The MILE)*

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# Business & Industry Endorsement

## Manufacturing

### Industrial Systems Mechanic Electrical Pathway - TSTC

Students will learn how systems work together in a facility, gaining knowledge of mechanical and electrical systems and how to troubleshoot them. Students will be able to diagnose and make repairs by applying training in commercial facilities to build a great career.

#### PRECISION METAL MANUFACTURING I

##### INMT 1305/INTRODUCTION TO INDUSTRIAL MAINTENANCE

Course: 8217 | PEIMS: 13032500

**Grade Placement:** 10 - 11; 1 credit

**Prerequisites:** None

Basic mechanical skills and repair techniques common to most fields of industrial maintenance. This course is a dual enrollment course offered at TSTC Red Oak. Enrollment requirements for TSTC must be met including payment for course by credit hour. See TSTC's website for course fee information.

#### DIVERSIFIED MANUFACTURING I

##### INMT 2303/PUMPS, COMPRESSORS & MECHANICAL DRIVES

Course: 8218 | PEIMS: 13032650

**Grade Placement:** 10 - 11; 1 credit

**Prerequisites:** INMT 1305

A study of the theory and operations of various types of pumps and compressors. Topics include mechanical power transmission systems including gears, v-belts and chain drives. This course is a dual enrollment course offered at TSTC Red Oak. Enrollment requirements for TSTC must be met including payment for course by credit hour. See TSTC's website for course fee information.

#### DIVERSIFIED MANUFACTURING II

##### ELPT 1311/BASIC ELECTRICAL THEORY

Course: 8219 | PEIMS: 13032660

**Grade Placement:** 11 – 12; 1 credit

**Prerequisites:** INMT 1305, INMT 2303

Basic theory and practice of electrical circuits. Includes calculations as applied to alternating and direct current. This course is a dual enrollment course offered at TSTC Red Oak. Enrollment requirements for TSTC must be met including payment for course by credit hour. See TSTC's website for course fee information.

#### PRACTICUM IN MANUFACTURING 1<sup>ST</sup> TIME TAKEN

##### ELPT 1341/MOTOR CONTROLS

Course: 8220 | PEIMS: 1303300

**Grade Placement:** 11 – 12; 2 credits

**Prerequisites:** INMT 1305, INMT 2303, ELPT 1311

Operating principles of solid-state and conventional controls along with their practical applications. Includes braking, jogging, plugging, safety interlocks, wiring, and schematic diagram interpretations. This course is a dual enrollment course offered at TSTC Red Oak. Enrollment requirements for TSTC must be met including payment for course by credit hour. See TSTC's website for course fee information.

#### PRACTICUM IN MANUFACTURING 2<sup>ND</sup> TIME TAKEN

##### ELPT 1345/COMMERCIAL WIRING

Course: 8221 | PEIMS: 13033010

**Grade Placement:** 11 – 12; 2 credits

**Prerequisites:** INMT 1305, INMT 2303, ELPT 1311, ELPT 1341

Commercial wiring methods. Includes overcurrent protection, raceway panel board installation, proper

grounding techniques and associated safety procedures. This course is a dual enrollment course offered at TSTC Red Oak. Enrollment requirements for TSTC must be met including payment for course by credit hour. See TSTC's website for course fee information.

# Business & Industry

## Marketing

### PRINCIPLES OF BUSINESS, MARKETING AND FINANCE

**Course: 8300 | PEIMS: 13011200**

**Grade Placement:** 9-11, 1 credit

**Prerequisite:** None

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

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### ADVERTISING

**Course: 9300 | PEIMS: 13034200**

**Grade Placement:** 9 - 12; .5 credit

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

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

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### SPORTS AND ENTERTAINMENT MARKETING

**Course: 9311 | PEIMS: 13034600**

**Grade Placement:** 9 - 12; .5 credit

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

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

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### SOCIAL MEDIA MARKETING

**Course: 9304 | PEIMS: 13034650**

**Grade Placement:** 9 - 12; .5 credit

**Recommended Prerequisites:** *Principles of Business, Marketing and Finance, or any marketing course*

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

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## **ENTREPRENEURSHIP**

**Course: 9302 | PEIMS: 13034400**

**Grade Placement:** 11 - 12; 1 credit

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

In this course, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

*(Only offered at The MILE)*

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## **ENTREPRENEURSHIP II**

**Course: 9302 | PEIMS: N1303423**

**Grade Placement:** 11-12

**Recommended Prerequisite:** *Entrepreneurship*

The purpose of the course is to prepare students with the knowledge and skills needed to become a successful entrepreneur within an innovative marketplace. The goal and outcome of the course is for students to have their business launched by the end of the course or have the tools necessary to launch and operate their business. Students are encouraged to work in close cooperation with local industry leaders, community members, and educators to develop ideas and objectives, complete a business model canvas, pitch to potential investors, register with governmental agencies, develop their brand identity, and participate in local chamber of commerce meetings and events.

*(Only offered at The MILE)*

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## **PRACTICUM IN BUSINESS**

**Course: 8312 | PEIMS: 13012200**

**Grade Placement:** 12, 2 credits

**Recommended prerequisites:** *Any Business, Marketing or Finance course. A student may repeat this course once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills.*

Students apply technical skills to address business applications of emerging technologies. They will develop a foundation in the economical, financial, technological, international, social, and ethical aspects of business to become competent consumers and employees. This is a work-based learning program. Students must have and maintain a job to remain in the program. Work based employment may be paid or unpaid internships to fulfill the course requirements.

*(Only offered at The MILE)*

## Public Service Endorsement

Career Clusters
Education and Training
Health Science
Human Services
Law and Public Safety

A student may earn a public service endorsement by completing the Foundations of High School Program and a coherent sequence of courses for four or more credits in CTE that consists of at least two courses in the same career cluster and at least one advanced CTE course. The courses may be selected from CTE courses with the final course in the sequence being selected from the Public Service cluster.

# Public Service

## Human Service

### PRINCIPLES OF HUMAN SERVICES

Course: 8900 | PEIMS: 13024200

**Grade Placement:** 9-10, 1 credit

**Prerequisite:** None

Students use knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, and manage multiple adult roles. This course introduces students to careers in counseling and mental health, child development, family and community, personal care services, social work, education, hospitality and food service, and interior design. Each student is expected to complete the knowledge and skills essential for success in high-skill, high wage, or high demand careers.

### COUNSELING AND MENTAL HEALTH

Course: 8904 | PEIMS: 13024600

**Grade Placement:** 10-12, 1 Credit

**Recommended prerequisite:** Principles of Human Services.

Students model the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. Students are expected to apply knowledge of ethical and legal responsibilities, limitations and the implications of their actions. Professional integrity in counseling and mental health care is dependent on acceptance of ethical and legal responsibilities.

### LIFETIME NUTRITION AND WELLNESS

Course: 8903 | PEIMS: 13024500

**Grade Placement:** 9 - 12; .5 credit

**Recommended prerequisite:** Principles of Human Services, or Principles of Health Science.

This course 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.

## INTERPERSONAL STUDIES

Course: 8902 | PEIMS: 13024400

**Grade Placement:** 9 - 12; .5 credit

**Recommended prerequisite:** *Principles of Human Services, Principles of Health Science.*

This course examines how the relationships between individuals and among family members significantly affect the quality of life. Students use knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers related to counseling and mental health services.

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## FAMILY AND COMMUNITY SERVICES

Course: 8907 | PEIMS: 13024900

**Grade:** 10-12, 1 Credit

**Recommended prerequisite:** *Principles of Human Services.*

This laboratory-based course is designed to involve students in realistic and meaningful community-based activities through direct service experiences. Students are provided opportunities to interact 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.

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**\*\*The Cosmetology I and II courses are only offered at the Waxahachie Campus. The district provides transportation to and from Waxahachie HS. Based on course size limitation, a selection process is in place. Students should speak directly to their counselor to determine necessary requirements. Fees listed in each course are subject to change.**

## INTRODUCTION TO COSMETOLOGY

Course: 8913 | PEIMS: 13025100

**Grade Placement:** 10-12, 1 credit

**Prerequisite:** *Principles of Human Service and*

In Introduction to Cosmetology, students explore careers in the cosmetology industry. To prepare for success, students must have academic and

## PRACTICUM IN HUMAN SERVICES I

Course: 8908 | PEIMS: 13025000

**Grade Placement:** 11-12, 2 credits

**Prerequisite:** *Prior Human Services courses and teacher recommendation and application*

This practicum provides occupationally specific training and courses on the development of consumer sciences, early childhood development and services, family and community service careers. It is designed to meet the occupational preparation needs and interests based on the Human Services Endorsement. Students will use business/career skills to facilitate client interaction as well as leadership and teamwork skills.

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## PRACTICUM IN HUMAN SERVICES II

Course: 8910 | PEIMS: 13025010

**Grade Placement:** 12, 2 credits

**Prerequisite:** *Practicum in Human Services I*

This practicum provides occupationally specific training and courses on the development of consumer sciences, early childhood development and services, family and community service careers. It is designed to meet the occupational preparation needs and interests based on the Human Services Endorsement. Students will use business/career skills to facilitate client interaction as well as leadership and teamwork skills.

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technical knowledge and skills relative to the industry. Students may begin to earn hours toward state licensing requirements.

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## COSMETOLOGY I

Course: 8914 | PEIMS: 13025200

**Grade Placement:** 11-12, 2 credits

**Prerequisite:** *Principles of Human Service and program application for Cosmetology I*  
*Cosmetology I for Cosmetology II*

These laboratory-oriented courses provide students with job-specific training for entry-level employment in the field of Cosmetology. The course includes subject matters such as sterilization and sanitation, shampooing, hair and scalp treatments, haircutting, hairstyling, permanent waving, hair coloring and hair lightening, manicuring and artificial nail application, safety, leadership and career opportunities as well as entrepreneurship. Students must clock the final 500 clock hours to meet the state board guidelines as well as taking the licensing exam in Austin prior to the end of the school year in order to receive course credit. Placement into the Cosmetology 2 program is based solely on the instructor's recommendation using the following criteria: attendance, human relation skills, test scores, practical lab scores and overall manipulative ability. The cost for the state board kit is a minimum of \$250.00 with half of the balance being due at the end of the Junior year, remaining balance is due on the first day of school their Senior year.

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## **COSMETOLOGY II**

**Course: 8915 | PEIMS: 13025300**

**Grade Placement:** 11-12, 2 credits

**Prerequisite:** *Principles of Human Service and program application for Cosmetology I*  
*Cosmetology I for Cosmetology II*

These laboratory-oriented courses provide students with job-specific training for entry-level employment in the field of Cosmetology. The course includes

subject matters such as sterilization and sanitation, shampooing, hair and scalp treatments, haircutting, hairstyling, permanent waving, hair coloring and hair lightening, manicuring and artificial nail application, safety, leadership and career opportunities as well as entrepreneurship. Students must clock the final 500 clock hours to meet the state board guidelines as well as taking the licensing exam in Austin prior to the end of the school year in order to receive course credit. Placement into the Cosmetology 2 program is based solely on the instructor's recommendation using the following criteria: attendance, human relation skills, test scores, practical lab scores and overall manipulative ability. The cost for the state board kit is a minimum of \$250.00 with half of the balance being due at the end of the Junior year, remaining balance is due on the first day of school their Senior year.

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## **PRACTICUM IN HUMAN SERVICES-COSMETOLOGY**

**Course: 8908 | PEIMS: 13025000**

**Grade Placement:** 11-12, 2 credits

**Prerequisite:** *Prior Human Services courses and teacher recommendation and application*

This practicum provides occupationally specific training and courses on the development of consumer sciences, early childhood development and services, family and community service careers. It is designed to meet the occupational preparation needs and interests based on the Human Services Endorsement. Students will use business/career skills to facilitate client interaction as well as leadership and teamwork skills.

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# Public Service

## Education and Training

### PRINCIPLES OF EDUCATION AND TRAINING

Course: 8400 | PEIMS: 13014200

**Grade Placement:** 9-10, 1 credit

**Prerequisite:** None

This course is designed to introduce learners to the various careers available within the Education and Training Career Cluster. Students use self-knowledge as well as educational and career information to analyze various careers within the Education and Training Career Cluster. Students will develop a graduation plan that leads to a specific career choice in the student's interest area.

### HUMAN GROWTH AND DEVELOPMENT

Course: 8401 | PEIMS: 13014300

**Grade Placement:** 10-12, 1 Credit

**Recommended Prerequisites:** *Principles of Education and Training*

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.

### INSTRUCTIONAL PRACTICES IN EDUCATION AND TRAINING

Course: 8402 | PEIMS: 13014400

**Grade Placement:** 11-12, 2 credits

**Recommended prerequisites:** *Principles of Education and Training and Human Growth and Development. Application process/teacher recommendation*

Instructional Practices is a field-based (practicum) internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators or trainers in direct instructional roles with elementary, middle school, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel.

### PRACTICUM IN EDUCATION AND TRAINING

Course: 8403 | PEIMS: 13014500

**Grade Placement:** 12, 2 credits

**Prerequisite:** *Instructional Practices.*

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

Practicum in Education and Training is a field-based internship that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and complete other responsibilities of classroom teachers, trainers, paraprofessionals, or other educational personnel. Students must complete the appropriate application and gain approval before being scheduled in this course.

# Public Service

## Health Science

### PRINCIPLES OF HEALTH SCIENCE

**Course: 8700 | PEIMS: 13020200**

**Grade Placement:** 9-10, 1 credit

**Prerequisite:** None

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

#### (LAB FEE)

The lab fee associated with Principles of Health Science will be used to purchase individual supplies for each enrolled student to successfully complete projects associated with the course. Funds will be allocated to purchase supplies such as scalpels, gloves, personal protective equipment, career-based materials, and in the spring, students will be certified in CPR.

### PHARMACOLOGY

**Course: 8712 | PEIMS: 13020950**

**Grade Placement:** 11 - 12; 1 credit

**Prerequisites:** Biology and Chemistry.

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

This course is designed to study how natural and synthetic chemical agents such as drugs affect biological systems. Knowledge of the properties of therapeutic agents is vital in providing quality health care. It is an ever-changing, growing body of information that continually demands greater amounts of time and education from health care workers.

### MEDICAL MICROBIOLOGY

**Course: 8709 | PEIMS: 13020700**

**Grade Placement:** 11-12; 1 credit (CH. 74)

*Prerequisite: Successful completion of prior lab science courses and recommended completion of*

*three credits of science. This is a CTE course that will satisfy a high school science graduation requirement.*

Microbiology is the science and study of microorganisms and their effect on the human body. This course will include Pathophysiology, which is the study of disturbance of normal mechanical, physical, and biochemical functions, either by disease or other conditions.

### COLLEGE ANATOMY AND PHYSIOLOGY OF HUMAN SYSTEMS: BIOL 2401/2402

**Course: DC3300 | PEIMS: 13020600**

**Grade Placement:** 11-12; 1 credit; 8 college hours (CH. 74)

**Prerequisite:** Successful completion of Biology and Chemistry and meet dual credit requirements, complete college registration process by July 1, proof of enrollment and paid tuition provided to high school. This is a CTE course that will satisfy a high school science graduation requirement.

This laboratory-oriented course includes the study of normal relationships between anatomical structures and physiological functions and the diagnosis and treatment of abnormal conditions of human systems. It is ideal for nursing majors. Eight hours of college science credit will be earned that could be accepted by many colleges. Students must register with and pay tuition to Navarro College and buy books. Students must take and pay for both semesters of this course in order to get a full year of high school science credit.

### MEDICAL TERMINOLOGY

**Course: 8701 | PEIMS: 13020300**

**Grade Placement:** 9-12; 1 credit

**Prerequisites:** None

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

**Medical Terminology Class Supplies (LAB FEE)**

The lab fee associated with Medical Terminology will be used to purchase individual supplies for each enrolled student to successfully complete coursework and projects associated with the course. Funds will be allocated to purchase supplies such as index cards for each unit, gloves, miscellaneous medical supplies, and in the Spring, students will be certified in CPR.

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**HEALTH SCIENCE THEORY**

**Course: 8702 | PEIMS: 13020400**

**Grade Placement:** 11-12; 1 credit

**Prerequisites:** Principles of Health Science and Biology and application process

This course provides for the development of advanced knowledge and skills related to a wide variety of health careers. Students will have hands-on experiences and exposure to different methodologies such as clinical rotation and career preparation learning.

**Health Science Theory**

The lab fee associated with Health Science Theory will be used to purchase individual supplies for each enrolled student to successfully complete coursework and projects associated with the course. Funds will be allocated to purchase supplies such as gloves, personal protective equipment, vital signs and first aid supplies, scalpels, project-based materials, and in the Spring, students will have the opportunity to be certified in CPR.

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**HEALTH SCIENCE THEORY with CLINICAL**

**Course: 8703 | PEIMS: 13020410**

**Grade Placement:** 11-12; 2 credits

**Prerequisites:** Principles of Health Science and Biology and application process

This course provides for the development of advanced knowledge and skills related to a wide variety of health careers. Students will have hands-on experiences and exposure to different methodologies such as clinical rotation and career preparation learning.

**Health Science Theory**

The lab fee associated with Health Science Theory will be used to purchase individual supplies for each enrolled student to successfully complete coursework and projects associated with the course. Funds will be allocated to purchase supplies such as gloves, personal protective equipment, vital signs and first aid supplies, scalpels, project-based materials, and in the Spring, students will have the opportunity to be certified in CPR.

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**PRACTICUM IN HEALTH SCIENCE**

**Course: 8704 | PEIMS: 13020500**

**Grade Placement:** 12; 2 credits

**Prerequisites:** Principles of Health Science, Health Science Theory, and Biology, application process/teacher approval

The Practicum is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Students are expected to employ their ethical and legal responsibilities and limitations and understand the implications of their action.

**Health Science Practicum**

The lab fee associated with Health Science Practicum will be used to purchase individual supplies for each enrolled student to successfully complete skill-based scenarios in the hospital learning lab along with materials needed for the course. Funds will be allocated to purchase supplies such as gloves, personal protective equipment, vital signs and first aid supplies, scalpels, project-based materials, CPR certification, medication administration labs, and will be recertified in CPR prior to graduation. Students will also need to pass a 10-panel drug test performed at MHS and have a senior-level Practicum t-shirt.

# Public Service

## Law and Public Safety

### **PRINCIPLES OF LAW, PUBLIC SAFETY, CORRECTIONS, AND SECURITY** **Course: 9100 | PEIMS: 13029200**

**Grade Placement:** 9-12, 1 credit  
**Prerequisite:** None

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

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### **LAW ENFORCEMENT I** **Course: 9101 | PEIMS: 13029300**

**Grade Placement:** 10-12, 1 credit  
**Recommended Prerequisite:** *Principles of Law, Public Safety, Corrections, and Security*

This course is an overview of the history, organization, and functions of local, state, and federal law enforcement. It will focus on planning, managing, and providing legal services, public safety, protective services and homeland security, including professional and technical support services. Students will become familiar with law enforcement terminology, the classification and elements of crime, and the ethical behavior standards required for people who choose a career in law enforcement.

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### **FORENSIC SCIENCE** **Course: 9103 | PEIMS: 13029500**

**Grade Placement:** 11 - 12; 1 credit (CH. 74)  
**Prerequisites:** *Biology AND Chemistry*

*Recommended prerequisite or corequisite: any Law, Public Safety, Corrections, and Security Career Cluster course. This is a CTE course that will satisfy a high school science graduation requirement.*

This course uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies, simulated crime scenes and laboratory applications such as fingerprint analysis, ballistics, blood spatter analysis and DNA. Students will learn the history, legal aspects, and career options for forensic science.

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### **COURT SYSTEMS AND PRACTICES** **Course: 9105 | PEIMS: 13029600**

**Grade Placement:** 10 - 12; 1 credit  
**Recommended prerequisite:** *Law Enforcement I*

This course is an overview of the federal and state court systems. The course identifies the roles of judicial officers and the trial processes from pretrial to sentencing and examines the types and rules of evidence. Emphasis is placed on constitutional laws for criminal procedures such as search and seizure, stop and frisk, and interrogation.

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### **LAW ENFORCEMENT II** **Course: 9102 | PEIMS: 13029400**

**Grade Placement:** 11-12, 1 credit  
**Recommended Prerequisite:** *Law Enforcement I*

This course further explores the knowledge and skills necessary to prepare for a career in law enforcement, including the role of first responders, telecommunications personnel, emergency equipment operators, and courtroom personnel. Topics will include techniques used to manage crisis situations and maintain public safety, protocols for domestic violence situations, procedures for serving warrants and summons, crowd control methods, disaster response roles, and crime scene investigation.

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## STEM Endorsement

Career Cluster
Science, Technology, Engineering, and Math

*Science, technology, engineering, and mathematics (STEM). A student may earn a STEM endorsement by completing the Foundation High School Program, plus including Algebra II, chemistry, and physics or Principles of Technology and: a coherent sequence of courses for four or more credits in career and technical education (CTE) that consists of at least two courses in the same career cluster and at least one advanced CTE course. The courses may be selected from CTE courses with the final course in the sequence being selected from the STEM cluster.*

# Science, Technology, Engineering and Math

## STEM

### INTRODUCTION TO ENGINEERING DESIGN

(Project Lead the Way - PLTW)

Course: 9422 | PEIMS: N1303742

**Grade Placement:** 9-10, 1 credit

**Prerequisite:** None

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work.

### ENGINEERING SCIENCE (PLTW)

Course: 9420 | PEIMS: 13037500

**Grade Placement:** 9-12, 1 credit (CH. 74)

**Prerequisite:** Successful completion of PLTW Introduction to Engineering Design (IED) and Algebra I and two science credits (may be concurrent)

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and

design while learning strategies for design process documentation, collaboration, and presentation.

### AEROSPACE ENGINEERING (PLTW)

Course: 9423 | PEIMS: N1303745

**Grade Placement:** 10 - 12; 1 credit

**Prerequisite:** PLTW Principles of Engineering

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

(Only offered at The MILE)

### CIVIL ENGINEERING AND ARCHITECTURE (PLTW)

Course: 9425 | PEIMS: N1303747

**Grade Placement:** 10 - 12; 1 credit

**Prerequisites:** PLTW Principles of Engineering

Students learn important aspects of building and site design and development. They apply math, science,

and standard engineering practices to design both residential and commercial projects and document their work using 3-D architectural design software.

*(Only offered at The MILE)*

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**Practicum of STEM - Engineering**  
**Course: 9416 | PEIMS: 13037400**

**Grade Placement:** 12; 2 credits  
**Prerequisites:** Algebra I and Geometry

This is a capstone experience for students participating in a coherent sequence of career and technical education courses in the STEM Career Cluster. Practicum in STEM is designed to give students supervised practical application of previously studied knowledge and skills.

*(Only offered at The MILE)*

## CTE Electives \*Can be used in any pathway

**PROJECT BASED RESEARCH**  
**Course: 9605 | PEIMS:12701500**

**Grade Placement:** 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.

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**EMPLOYABILITY SKILLS**  
**Course: 9608 | PEIMS: N1270153**

**Grade Placement:** 9-12, Credit: 1  
**Prerequisite:** None

This course provides students with knowledge of the prerequisite skills for general employment as well as the means of obtaining those skills. Employability skills include fundamentals of maintenance of personal appearance and grooming. The course also includes the knowledge, skills, and attitudes that allow employees to get along with their co-

workers, make important work-related decisions, and become strong members of the work team.

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**APPLIED MATHEMATICS FOR TECHNICAL PROFESSIONALS**  
**Course: 9604 | PEIMS: 12701410**

**Grade Placement:** 9-11; 1 credit (CH. 74)  
**Prerequisite:** None

Applied Mathematics for Technical Professionals uses problem-solving situations, hands-on activities, and technology to extend mathematical thinking and engage student reasoning. Situations relating to technical applications provide students opportunities to make connections with mathematics and the workplace. In addition, students will learn the skills necessary to communicate using mathematics. Hands-on activities will allow students to model, explore, and develop abstract concepts applicable to technical careers.

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**BUSINESS ENGLISH**  
**Course: 8306 | PEIMS: 13011600**

**Grade Placement:** 12; 1 credit (Can take the place of English IV) (CH. 74)  
**Recommended Prerequisite:** English I, II, and III

In Business English, students enhance communication and research skills by applying them to the business environment, in addition to exchanging information and producing properly formatted business documents using emerging technology.

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## **POLITICAL SCIENCE**

**Course: 8601 | PEIMS: 13018300**

***Grade Placement:*** 9-10; 1 credit

***Prerequisite:*** None

Political Science introduces students to political theory through the study of governments; public policies; and political processes, systems, and behavior.

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## Career Preparation - Work/Study Program

Students must have a job 15 days after the start of school and remain employed throughout the school year. Students must attend school four periods per day and one period must include the career prep course. Students may choose to enroll in a full schedule which includes the career prep course and receive the two credits for the course through employment outside of the instructional day and one credit for the instructional period at the campus for a total of three credits.

### **CAREER PREPARATION I**

**Course: 9600 | PEIMS: 12701300**

**Grade Placement:** 11-12, 2 - 3 Credits

**Prerequisite:** Application and approval by instructor and CTE Administrator

The course provides classroom technical instruction and on-the-job training experiences. Job-specific skilled training is provided by local training sponsors in areas compatible with identified career goals in trade and industrial areas. In class the students will study topics related to job skills, employment skills, life skills, safety, leadership training, and career opportunities.

### **CAREER PREPARATION II**

**Course: 9602 | PEIMS: 12701400**

**Grade Placement:** 12, 3 Credits

**Prerequisite:** Career Preparation I, application and approval by instructor and CTE Administrator

This course is an extension of Career Preparation I. This course provides classroom technical instruction and on-the-job training experiences. Job-specific skilled training is provided by local training sponsors in areas compatible with identified career goals in trade and industrial areas. In class the students will study topics related to job skills, employment skills, life skill, safety, leadership training, and career opportunities.

### Multidisciplinary Endorsement

The Multiple Disciplinary endorsement allows for students to further study a foundation area or a wide range of curriculum sets. A student may earn a multidisciplinary studies endorsement by completing the requirements specified in the foundation plan, in addition to one of the following:

<b>Pathway A</b>	Take 4 advanced courses within 1 endorsement area or among endorsement areas that are not in a coherent sequence. The courses must prepare students to enter the workforce successfully or postsecondary.
<b>Pathway B</b>	Take 4 credits in each of the 4 foundation subject areas to include English IV and chemistry and/or physics.
<b>Pathway C</b>	Take 4 Advanced Placement (AP) or dual credit courses selected from English, mathematics, science, social studies, economics, languages other than English, or fine arts.

### Arts and Humanities Endorsement

This path includes cultural studies, English literature, fine arts, history, political science, and world languages. A student may earn an arts and humanities endorsement by completing the requirements specified in the foundation plan, in addition to one of the following:

<b>Pathway A</b>	Take 5 social studies credits
<b>Pathway B</b>	Take 4 levels of the same language in a language other than English
<b>Pathway C</b>	Take 2 levels of the same language in a language other than English and 2 levels of a different language in a language other than English
<b>Pathway D</b>	Take a sequence of four courses in fine arts in one or two categories

# Midlothian ISD

## Personal Graduation Plan (PGP)

High School Four Year Plan with Endorsement - Midlothian ISD							
Name:		Student ID:		Date Initiated:		Cohort:	
School:		Grade:		Date(s) Amended:		Amendments:	
<p>The Four Year Plan is intended to give you and your parent(s) a guide to use as you progress through high school. You will want to review the plan each year to make sure you are taking the required courses for graduation. Your counselor will have sample Career Plans of Study for each of the endorsements that are listed on this page. You may use these as guides to help you select courses that support your career goals. Make sure that you are taking the academic courses that support your post-secondary goals.</p>				Date(s) Amended:		Amendments:	
				Date(s) Amended:		Amendments:	
				Date(s) Amended:		Amendments:	
				Date(s) Amended:		Amendments:	
				Graduation Plans 2019 and beyond			
Endorsement(s):		My Post High School Plans:		Discipline	Foundation Credits	+Endorsement(s) Credits	Distinguished Credits
STEM		Two Year College		English	4	4	
Business & Industry		Technical Training		Math	3	4	include Algebra II
Arts & Humanities		Four Year College		Science	3	4	
Public Services		Military		Social Studies	3	3-4	
Multidisciplinary		Employment		Lang. other than English	2	2	
My Graduation Plan Type Is:		Other		Fine Arts	1	1	
Foundation w/Endorsement		Career Interest		Physical Education	1	1	
Distinguished				Electives	5	6-7	
Foundation w/o Endorsement				Total Credits for Graduation	22	26	26
Opt-Out Date							
<p><b>Directions:</b> Students need to complete additional courses in math and science to earn an endorsement. In order to earn the additional distinguished indicator, students must complete Algebra II. Students are also encouraged to take advanced coursework in their academic and career related disciplines.</p>							
Courses	High School Credit Earned in Middle School	9th Grade	10th Grade	11th Grade	12th Grade		
1		English I	English II	English III	English IV	Business English	
2		Math:	Math:	Math:	Math:		
3		Science:	Science:	Science:	Science:		
4		Social Studies:	Social Studies:	U.S. History	Gov't/Eco		
5							
6							
7							
<p>I understand that this plan is flexible. I understand the benefits of graduating with an endorsement and in order to be eligible for Top 10% automatic admission to a public university in Texas, a student must graduate on the Distinguished Plan including earning credit for Algebra II.</p>							
Student Signature:		Parent Signature:		Date:			
***Community Service Hour Requirements for High School Graduation = 10 hours Total or 2.5 hours per year***							