

# Introduction

**Mabank High School**  
**18786 East Highway 175**  
**Mabank, TX 75147**  
**903.880.1600**

## Administration

Principal.....Charity Groom  
Associate Principal.....Dr. Angela Wright  
Assistant Principal.....Daniel Boatright  
Assistant Principal.....Bobby Fowler  
Director of Career and Technical Education.....Shela Koskelin

## Guidance Department

Counselor A-G.....Erika Zeller  
Counselor H-O.....Patricia Riley  
Counselor P-Z.....Kathy Norman  
Registrar.....Shelah Bishop  
Data Specialist.....Meredith Williams

# Table of Contents

Graduation Plan.....	3
Graduation Requirements .....	4
Top 10% Automatic Admission .....	5
Early Graduation.....	5
Academic Achievement Record .....	5
Course Selection Specifics .....	6
Dual-Credit .....	8
Non-Credit Courses .....	8
Schedule Changes .....	9
Credit by Exam .....	9
GPA Calculation and Class Category.....	10
Course Offerings .....	14
Course Descriptions .....	21
Agriculture, Food & Natural Resources .....	21
Athletics & Physical Education .....	24
Business Management & Administration, Marketing, and Finance .....	25
Construction.....	27
Education & Training .....	28
English Language Arts .....	28
Fine & Performing Arts .....	30
Health Science .....	34
Hospitality & Tourism – Culinary Arts .....	35
Human Services .....	36
Information Technology .....	36
Languages Other than English .....	37
Law, Safety, Corrections & Security .....	38
Life Skills .....	39
Mathematics .....	40
Miscellaneous Electives .....	41
Science .....	44
Science, Technology, Engineering & Mathematics .....	47
Social Studies .....	48
Transportation, Distribution & Logistics .....	52
Appendix A: Graduation Plans .....	53
Appendix B: Career & Technology Education Pathways.....	55
Appendix C: Dual Credit Offerings.....	56
Appendix D: NCAA Eligibility.....	57
2020-2021 Testing Calendar.....	58

## Students entering high school in 2014-2015 and beyond

# Graduation Plan

	FOUNDATION	FOUNDATION +ENDORSEMENT (State Distinguished)	DISTINGUISHED LEVEL OF ACHIEVEMENT + ENDORSEMENT
<b>English</b>	<b>4 credits</b> • English I • English II • English III • An advanced English course	<b>4 credits</b> • English I • English II • English III • An advanced English course	<b>4 credits</b> • English I • English II • English III • An advanced English course
<b>Mathematics</b>	<b>4 credits</b> • Algebra I • Geometry • Two additional math courses	<b>4 credits</b> • Algebra I • Geometry • Algebra II • An advanced math course	<b>4 credits</b> • Algebra I • Geometry • Algebra II • An advanced math course
<b>Science</b>	<b>4 credits</b> Biology IPC or an advanced science Two additional science courses	<b>4 credits</b> • Biology • Chemistry • Physics • An advanced science course	<b>4 credits</b> • Biology • Chemistry • Physics • An advanced science course
<b>Social Studies</b>	<b>4 credits</b> • World Geography • World History • U.S. History • Government/Economics	<b>4 credits</b> • World Geography • World History • U.S. History • Government/Economics	<b>4 credits</b> • World Geography • World History • U.S. History • Government/Economics
<b>Physical Education</b>	<b>1 credit</b>	<b>1 credit</b>	<b>1 credit</b>
<b>Languages Other than English</b>	<b>2 credits</b> • In same language or alternative	<b>2 credits</b> • In same language	<b>3 credits</b> • In same language
<b>Fine Arts</b>	<b>1 credit</b>	<b>1 credit</b>	<b>1 credit</b>
<b>Speech</b>	<b>0.5 credit</b>	<b>0.5 credit</b>	<b>0.5 credit</b>
<b>Technology</b>	<b>1 credit</b>	<b>1 credit</b>	<b>1 credit</b>
<b>Electives</b>	<b>4.5 credits</b>	<b>4.5 credits</b>	<b>3.5 credits</b>
<b>TOTAL</b>	<b>26</b>	<b>26</b>	<b>26</b>

Questions and answers regarding graduation requirements for students entering high school in 2014–15 and beyond, including specific information about Endorsements, are included in Appendix A.

# Graduation Requirement

Under House Bill 5 (HB5), passed by the 83rd Texas Legislature and signed by the governor, high school students are now required to pass five State of Texas Assessments of Academic Readiness (STAAR®) end-of-course exams to meet graduation requirements.

To receive a diploma and to participate in graduation ceremonies, the student must: Complete one of the Mabank High School graduation programs, and meet passing requirements on the State of Texas Assessments.

The five assessments under HB5 include:

- Algebra I
- English I
- English II
- Biology
- U.S. History

## Grade Classification

Grade level classification will be assigned based upon the number of documented credits earned as of the beginning of the school year.

Classification of students does not change during the school year unless students are graduating early and need to be reclassified as seniors. Students transferring from another school will be classified, upon entering, at the grade level consistent with Mabank High School's classification system. Students must adhere to their grade level classification to participate in class activities or events.

**It is the responsibility of the student to be aware of the graduation and classification requirements and make sure that required courses are completed in a timely manner to meet graduation requirements.**

### **Grade Level Classification**

Freshmen (9th): 0 - 5.5 credits

Sophomores (10th): 6 - 11.5 credits

Juniors (11th): 12 - 17.5 credits

Seniors (12th): 18+ credits

# Top 10% Automatic Admission

Top students in Texas are eligible for automatic admission to any public university in Texas under state admissions policies. Under House Bill 588 passed by the 75th Legislature in 1997, students who are in the top 10% of their graduating class are eligible for automatic admission to any public university in Texas. The University of Texas (UT) at Austin will be the only exception to this rule under SB 175 passed by the 81st Legislature in 2009. Specifically, SB 175 caps the number of students admitted under the top 10% law to the top 6% at UT-Austin.

To be eligible for the top 10% automatic admission, a student must:

- Graduate in the top 10% of his/her class at a public or private high school in Texas;
- Enroll in college no more than two years after graduating from high school; and
- Submit completed application along with required documentation to a Texas public university for admission before the institution's application deadline. Since deadlines vary, please check with the specific university to verify the application deadline.

Once a student is admitted, a university may review a student's high school records to determine if the student is prepared for college-level course work. A student who needs additional preparation may be required to take a developmental, enrichment, or orientation course during the semester prior to the first semester of college. The Texas Higher Education Coordinating Board was responsible for creating rules for this new admissions policy and adopted the "top percent" rules in October 1997. For more information, contact the Texas Education Agency. Admission staff at each university is also knowledgeable about this admission policy and can answer parent and student questions.

## Early Graduation

Students who anticipate completing high school in fewer than four years must make a written request to their counselor by the end of their sophomore year. Students that meet requirements to graduate early will be ranked in with the senior class they are graduating with that school year. They may not be ranked higher than 3rd in the senior class rank. Diplomas shall be awarded at the end of the school year. Students graduating early may participate in graduation ceremonies only if all graduation requirements are completed prior to the graduation ceremony. It is the responsibility of the student to order cap, gown and invitations at designated times. In order to participate in graduation ceremony and senior assembly students must attend all graduation and senior assembly rehearsals. Note: Please see Senior Information Sheet for additional graduation information and requirements. You can find this information in the counseling center or on the home page of the MHS website under Student Organizations and Senior Class Sponsor web page.

## Academic Achievement Record

Academic Achievement Records (transcripts) for graduating seniors may be secured by making a personal request to the registrar located in the counseling center. The registrar will send the transcript through T-Rex to the desired college or university. Students should not wait until the last minute to request a transcript. No transcript will be sent until a student request form has been signed and filed with the registrar. If you graduated from Mabank High School more than 1 year ago, you can request a copy of your official transcript by contacting the registrar at (903) 880-1610 or completing a request in person with the registrar in the counseling center. If you live out of the Mabank area now, we will need you to FAX us a written release giving us the name that appears on the transcript, birth date, and year of graduation with your signature and the name of the person picking up your transcript or the address where you would like us to mail it. You can fax this information to 903-880-1611.

# Course Selection Specifics

## What are Advanced and AP courses?

*Advanced* classes are on-grade level courses academically designed to challenge students to understand rigorous content. The coursework requires students to engage in independent and analytical assignments. Advanced courses are designed to better prepare students for Advanced Placement (AP), but are not a requirement for enrolling in Advanced Placement courses. Advanced and AP are not “all or nothing.” Students may take one to all of their core classes as Advanced/AP.

AP courses are designed by experts in the field and equate to a first year college level course; therefore, qualifying scores on the AP exams can enable students to receive college credit and/or advanced standing at a university or college. AP courses encourage critical and creative thought, fine-tune analytical skills, enhance reasoning abilities, and serve as an “academic bridge” to help smooth the transition for students from high school to college. While the curriculum is not mandated, it is strongly guided in the same direction as college courses. Each AP teacher must submit a course syllabus to the College Board for authorization to teach an AP course.

## Are Advanced/AP courses right for my student?

A student successful in Advanced and AP courses typically:

- will have experienced success in related coursework.
- is interested in the subject
- works to develop and maintain good study skills and habits.
- plans and works ahead on long term projects
- asks questions and participates in class
- asks for assistance when needed
- carefully considers time commitments and balances academic load with family life or outside commitments.
- perseveres when faced with challenging material.

## What are the requirements for placement in Advanced and AP courses?

There are no specific testing prerequisites or criteria that must be met for placement in Advanced or AP courses. Mabank High School supports the College Board’s statement: “The College Board is committed to the principle that all students deserve an opportunity to participate in rigorous and academically challenging courses and programs. All students who are willing to accept the challenge of a rigorous academic curriculum should be considered for admission to AP courses.”

For optimum success, it is recommended that students meet the following criteria; students who do not meet these criteria may still enroll in Advanced and AP courses, but parents/guardians may be required to attend a guidance and orientation event in order to enroll. All students and parents will be required to sign an Advanced/AP Course Contract.

**Advanced/AP English (recommend that students meet both criteria):**

- STAAR Reading scores of at least “Approaches”
- A final grade in the last English course of 80 or higher for advanced courses or 90 or higher for regular courses.

**Advanced/AP Math (recommend that students meet both criteria):**

- STAAR Mathematics scores of at least “Approaches”
- A final grade in the last Math course of 80 or higher for advanced courses or 90 or higher for regular courses.

**Advanced/AP Science (recommend that students meet both criteria):**

- STAAR Science scores of at least “Approaches”
- A final grade in the last Science course of 80 or higher for advanced courses or 90 or higher for regular courses.

**Advanced/AP Social Studies (recommend that students meet both criteria):**

- STAAR Social Studies and/or Reading scores of at least “Approaches”
- A final grade in the last Social Studies course of 80 or higher for advanced courses or 90 or higher for regular courses.

While we expect students to be very successful in Advanced and AP courses, it is important to take a close look at the student’s academic course load and commitments to other activities when choosing how many courses to take during a semester.

**Advanced and Advanced Placement Exit Criteria:**

Students will be exited from an Advanced/AP course under the following circumstances:

1. A student who has below a 65 the first nine weeks or earned a 69 or lower for the semester average will be removed from the Advanced or AP course and placed in an appropriate regular course.
2. A student may, upon his/her request and with parent approval, transfer from an Advanced or AP course at semester to an appropriate regular course by contacting the Associate Principal and submitting a written request. The final decision will be made on a case by case basis.
3. Any change from an AP course to a Regular course prior to the end of the first nine weeks must have Principal approval.

# Dual Credit Specifics

## Dual Credit

Students in the 11th or 12th grades may wish to take courses that are on the college level at Trinity Valley Community College that would also receive high school credit. Some courses are available to 9th and 10th graders. See counselors for additional information. Each student must meet TVCC admission requirements prior to TVCC registration deadlines before enrolling in a course for dual credit. Courses are offered each fall, spring, and summer I and summer II semesters. In most cases, these hours are transferable to other colleges; however, you should check with the college of your choice for its policy. Dual credit course offerings are listed on page 51.

Students must pay for books and fees that are required each semester for dual credit course(s). Students must also meet and comply with the colleges' rules, regulations and requirements. High school students must either be exempt from the TSI or take the TSI, or other approved placement test, prior to enrollment in a Texas public college or university. College courses that Mabank High School will accept for dual credit toward high school graduation requirements are listed in Appendix B.

## Non-Credit Courses

Non-credit courses do not count toward the 26 credits needed to complete graduation requirements. Courses that would not earn credit include but are not limited to:

- Student Aides
- Academic Support

## Schedule Changes

Mabank High School encourages students and parents to meet with counselors for assistance in selecting courses that will meet their personal needs for the future as well as satisfy graduation requirements. Careful consideration and planning is essential for making wise decisions regarding course selections needed for the attainment of future goals. Based on the information collected during registration, courses are scheduled for the 2021-2022 school year. It is vital that course selection be given serious consideration. Students should select courses which are aligned with their academic abilities and interests. Consideration should be given to the combination of courses selected and the demands on time for studying, practicing, performing or competing. After April 30th, 2021, changes will be made only to correct scheduling errors, equalize class enrollments, or for extenuating circumstances.



## Student, Teacher & Course Schedules

Students are expected to enroll in at least one course from each of the four core areas (ELA, Math, Science, & Social Studies) during each year of high school. Teacher schedules are determined by the requests for courses that students make, and teachers are assigned to teach specific courses and sections only after the students' choices have been used to develop the school's master schedule. Students should choose the courses they will take without expectation that a specific teacher will be assigned to teach that class.

Because of teacher resignations, reassignments, or other issues beyond the school's control, the school cannot ensure that a specific teacher will be available to teach a certain class.

## Credit by Exam

Students may use credit by examination to earn credit in any academic course at the secondary level, with the prior approval by their counselor. Such examinations shall assess the student's mastery of the essential knowledge and skills and shall be approved by the Superintendent or designee. Credit may be earned two ways:

Credit by Exam with prior instruction:

- A maximum of two credits may be earned through credit by examination.
- Student must have received a grade of at least 60-69 in the course.
- Student must not have lost credit due to excessive absences.
- Student must earn at least a 70 on the credit by exam. Grades earned will not be included in the student's GPA.
- A maximum of two opportunities to earn credit through credit by exam will be permitted. After failing two attempts to pass a specific exam, credit must be earned by retaking the course. The NCAA does NOT accept CBE's for course credit.

Credit by Exam without prior instruction (Test for Acceleration)

- Student must receive a grade of 80. Grade earned will be included in the student's GPA.
- Test dates are scheduled by the district testing coordinator.

## Correspondence Courses and the Texas Virtual School Network

Three state required credits through correspondence courses may be accepted as part of high school graduation requirements from the Extension Division of Texas Tech University or the University of Texas at Austin which have been approved by TEA. The student must have the counselor's approval before enrolling in a correspondence course and may be enrolled in only one correspondence course at a time. Only those students who have completed twelve credits or have a special circumstance will be approved for correspondence course work. Students are responsible for the cost.

The Virtual School Network provides high school courses to supplement regular instructional programs. Students may identify themselves with academic needs and learning styles appropriate for online learning by taking a pre-assessment for readiness of online learning. To access the pre-assessment, students must receive login information from their high school counselor. In addition, the high school counselor will register and approve all student course enrollments. Currently, there is not a limit for the number of TxVSN courses in which students can enroll per semester. Since TxVSN courses are very rigorous, it is advised a student not take over two. Fees may vary by the course and the providing district; however, the fees may be waived depending on available state virtual school allotment funds. The calendar for TxVSN classes is set by the providing district. Students must follow the schedule and guidelines for TxVSN classes set by the providing district. Students must follow the schedule and guidelines set in each course. All TxVSN courses are currently being offered outside the school day and will not count in the high school GPA and class rank. However, these courses will appear on the transcript. For more information, see your counselor or go to the following website: [www.txvsn.org](http://www.txvsn.org)

# GPA Calculation and Class Category

Texas State Law and MISD district policies relating to courses, grading, and grade point average are reviewed from year to year with regard to awarding GPA credit. Class ranking is determined by the student's cumulative GPA in academic courses taken for high school credit. Valedictorian, salutatorian, top ten graduates, and honor graduates are determined using the next to the last grading period of the senior year. Honor graduates must have a cumulative GPA of 4.0 or higher. To be eligible for valedictorian or salutatorian, the student must be enrolled in the district continuously by the end of the fifteenth day of the student's sophomore year until graduation. Grade point calculations will be carried out to three decimal places, and is calculated based on a four category GPA scale.

**Characteristics of Category I, II, III & IV Courses:** *The following class category policy applies to students in the graduating classes of 2021, 2022, and 2023.*

## Category I:

These courses begin with analysis, critical thinking and application of prior knowledge requiring the students to synthesize content knowledge throughout the course. These courses are structured around fast-paced discussions, extensive writing and reading and a workload typical of a collegiate course. The assessments in these courses require a student to demonstrate a greater depth and breadth of understanding of course content and may include essays, open-ended problems, independent projects or research, and frequent free response assessments. Students may be required to learn concepts and complete multiple assignments simultaneously. All courses in Category 1 culminate in an End-of-Course exam or collegiate final exam. These classes include all AP courses, eligible Dual-Credit courses, and PLTW courses.

## Category II:

Category II courses are designed for students who intend to matriculate to a Category I class or for students who are prepared to perform at a level beyond a typical high school student. Assignments will include a significant amount of initial instruction and a higher level of application than a Category III course. Category II courses are often sequential in nature, requiring students to focus on in-depth analysis and application within a specific subject area. Students are expected to possess strong oral and written communication skills which will be further developed over the course. Students will be expected to work at an accelerated pace within a collaborative environment and to spend time outside of class to be prepared for learning and class discussion. These courses include all eligible Advanced Courses.

## Category III:

Category III courses are designed for students who intend to matriculate to a Category II class or for students who are prepared to perform at a level beyond a typical high school student. Assignments will include a significant amount of initial instruction and a higher level of application than a Category IV course. Category III courses are often sequential in nature, requiring students to focus on in-depth analysis and application within a specific subject area. Students are expected to possess strong oral and written communication skills which will be further developed over the course. These courses include all eligible Pre-AP Courses.

## Category IV:

These courses build upon background knowledge and skills in order to develop a thorough understanding of the content. The learning progresses from basic levels of comprehension to higher levels of cognition; assessments are reflective of this progression. These courses are structured with an emphasis on teacher guided discussions and are designed to increase students' abilities to analyze and synthesize new information. Student workload is typical for a grade-level appropriate course at Mabank High School. These courses include all regular courses.

*\*The following GPA calculation and Class Category policy applies to students in the graduating classes of 2021, 2022, and 2023.\**

NUMERICAL GRADE	CATEGORY I	CATEGORY II	CATEGORY III	CATEGORY IV
	AP, Dual-Credit & PTLW course	Advanced Courses	Pre-AP Courses	All other courses
100	6.0	5.5	5.0	4.5
99	5.9	5.4	4.9	4.4
98	5.8	5.3	4.8	4.3
97	5.7	5.2	4.7	4.2
96	5.6	5.1	4.6	4.1
95	5.5	5.0	4.5	4.0
94	5.4	4.9	4.4	3.9
93	5.3	4.8	4.3	3.8
92	5.2	4.7	4.2	3.7
91	5.1	4.6	4.1	3.6
90	5.0	4.5	4.0	3.5
89	4.9	4.4	3.9	3.4
88	4.8	4.3	3.8	3.3
87	4.7	4.2	3.7	3.2
86	4.6	4.1	3.6	3.1
85	4.5	4.0	3.5	3.0
84	4.4	3.9	3.4	2.9
83	4.3	3.8	3.3	2.8
82	4.2	3.7	3.2	2.7
81	4.1	3.6	3.1	2.6
80	4.0	3.5	3.0	2.5
79	3.9	3.4	2.9	2.4
78	3.8	3.3	2.8	2.3
77	3.7	3.2	2.7	2.2
76	3.6	3.1	2.6	2.1
75	3.5	3.0	2.5	2.0
74	3.4	2.9	2.4	1.9
73	3.3	2.8	2.3	1.8
72	3.2	2.7	2.2	1.7
71	3.1	2.6	2.1	1.6
70	3.0	2.5	2.0	1.5
69 or below	-	-	-	-

***The following class category policy applies to students in the graduating classes of 2024 and beyond.***

Beginning with the graduating class of 2024, MISD has revised the Class Category and GPA calculation policy to the following:

**Category I:**

These courses begin with analysis, critical thinking and application of prior knowledge requiring the students to synthesize content knowledge throughout the course. These courses are structured around fast-paced discussions, extensive writing and reading and a workload typical of a collegiate course. The assessments in these courses require a student to demonstrate a greater depth and breadth of understanding of course content and may include essays, open-ended problems, independent projects or research, and frequent free response assessments. Students may be required to learn concepts and complete multiple assignments simultaneously. All courses in Category 1 culminate in an End-of-Course exam or collegiate final exam. These classes include all AP courses, eligible Dual-Credit courses, and PLTW courses.

**Category II:**

Category II courses are designed for students who intend to matriculate to a Category I class or for students who are prepared to perform at a level beyond a typical high school student. Assignments will include a significant amount of initial instruction and a higher level of application than a Category III course. Category II courses are often sequential in nature, requiring students to focus on in-depth analysis and application within a specific subject area. Students are expected to possess strong oral and written communication skills which will be further developed over the course. Students will be expected to work at an accelerated pace within a collaborative environment and to spend time outside of class to be prepared for learning and class discussion. These courses include all eligible Advanced Courses.

**Category III:**

These courses build upon background knowledge and skills in order to develop a thorough understanding of the content. The learning progresses from basic levels of comprehension to higher levels of cognition; assessments are reflective of this progression. These courses are structured with an emphasis on teacher guided discussions and are designed to increase students' abilities to analyze and synthesize new information. Student workload is typical for a grade-level appropriate course at Mabank High School. These courses include all regular courses.

*\*The following GPA calculation and Class Category policy applies to students in the graduating classes of 2024 and beyond.\**

NUMERICAL GRADE	CATEGORY I	CATEGORY II	CATEGORY III
	AP, Dual-Credit & PTLW course	Advanced Courses	All other courses
100	5.0	4.5	4.0
99	4.9	4.4	3.9
98	4.8	4.3	3.8
97	4.7	4.2	3.7
96	4.6	4.1	3.6
95	4.5	4.0	3.5
94	4.4	3.9	3.4
93	4.3	3.8	3.3
92	4.2	3.7	3.2
91	4.1	3.6	3.1
90	4.0	3.5	3.0
89	3.9	3.4	2.9
88	3.8	3.3	2.8
87	3.7	3.2	2.7
86	3.6	3.1	2.6
85	3.5	3.0	2.5
84	3.4	2.9	2.4
83	3.3	2.8	2.3
82	3.2	2.7	2.2
81	3.1	2.6	2.1
80	3.0	2.5	2.0
79	2.9	2.4	1.9
78	2.8	2.3	1.8
77	2.7	2.2	1.7
76	2.6	2.1	1.6
75	2.5	2.0	1.5
74	2.4	1.9	1.4
73	2.3	1.8	1.3
72	2.2	1.7	1.2
71	2.1	1.6	1.1
70	2.0	1.5	1.0
69 or below	-	-	-

# COURSE OFFERINGS

## Agriculture, Food & Natural Resources

Course	Cred.	Grade	Prerequisite
Principles of Agriculture, Food & Natural Resources	1	9-12	SAEP Required
Livestock Production (AGAH2313/AGAH1353)	1	10-12	SAEP Required/TVCC Admittance (TSI)
Vet Medical Applications (AGAH1447/AGRI2321)	1	10-12	Equine Science, Small Animal Mgt., or Livestock Prod., and TSI-TVCC Admittance
Small Animal Management	1/2	11-12	SAEP Required
Equine Science (AGEQ1411)	1/2	11-12	SAEP Required/TVCC Admittance (TSI)
Plant and Soil Science	1	11-12	Biology & Chemistry, or Physics and one course from Ag, Food & Nat. Resources preferably from the Horticulture/Floral Design Career Cluster
Animal Science (AGAH1401)	1	11-12	Biology & Chemistry or IPC; Algebra I & Geometry; and Small Animal Mgt./Equine Science or Livestock Production
Agriculture Mechanics and Metal Technology (WLDG1323/1317)	1	11-12	SAEP Required/TVCC Admittance (TSI)
Agricultural Structures Design and Fabrication (WLDG1353/1428/1407/1457)	1	11-12	SAEP Required/TVCC Admittance (TSI)
Practicum in Ag, Food, and Natural Resources Welding(WLDG1202/1430/1206/2443)	2	12	Three credits in a career coherent sequence of courses in the Ag Career Cluster and teacher approval
Wildlife, Fisheries, and Ecology Management	1	10-12	
Floral Design	1	10-12	Princ. of Ag, Food, and Nat. Resources
Horticulture Science	1	11-12	Principals and Floral Design
Practicum in Ag, Food, and Nat. Resources Horticulture and Floral	2	12	Three credits in a career coherent sequence of courses in the Ag Career Cluster and teacher approval

## ATHLETICS & PHYSICAL EDUCATION

Course	Cred.	Grade	Prerequisite
Physical Education	1	9-12	
Partner PE	1/2-1	9-12	Application and approval required
Athletics (Boys and Girls) I, II, III, IV	1	9-12	Must play a sport
Archery	1	9-12	
Competition Archery	1	9-12	Coach Approval
Varsity Drill Team	1	9-12	Audition
Dance I	1	9-12	No Experience Required
Cheer	1	9-12	Try-outs required

**ARCHITECTURE AND CONSTRUCTION**

<b>Course</b>	<b>Cred.</b>	<b>Grade</b>	<b>Prerequisite</b>
Principals of Construction	1	9-12	
Construction Technology I	2	10-12	Principals of Construction
Construction Technology II (2022-2023)	2	11-12	Construction Technology I
Practicum in Construction Technology (2023-2024)	2	12	Construction Technology II

**BUSINESS – MARKETING and FINANCE**

<b>Course</b>	<b>Cred.</b>	<b>Grade</b>	<b>Prerequisite</b>
Principles of Business, Marketing & Finance	1	9-12	TVCC Admittance (TSI)
Business Information Management I	1	9-12	Touch Systems, Data Entry (Keyboarding)
Business Information Management II	1	10-12	BIM I
Entrepreneurship	1	10-12	
Practicum in Business Management I or II	2	11-12	3 credits in a coherent sequence of courses in this career cluster
Business Law (BMGT 1341/BMGT 1327)	1	11-12	TVCC Admittance (TSI)
BCIS 1305 (Dual Credit - Online)	1	11-12	TVCC Admittance (TSI)
Accounting I (ACNT 1303/ACNT 1304)	1	11-12	TVCC Admittance (TSI)
Accounting II (ACNT 1311/ACNT 1313)	1	10-12	TVCC Admittance (TSI)/Accounting I
Entrepreneurship, Sports & Entertainment Marketing	1/2	10-12	
Practicum in Marketing & Extended Practicum I or II	2-3	11-12	Teacher approval and driver's license required for work program students. Students must have transportation and are strongly encouraged to be a member of DECA.
Statistics and Business Decision Making	1	12	Algebra II

**EDUCATION & TRAINING**

<b>Course</b>	<b>Cred.</b>	<b>Grade</b>	<b>Prerequisite</b>
Human Growth and Development	1	9-12	
Instructional Practices	2	10-12	Human Growth and Development
Practicum in Education and Training I or II	2	11-12	Instructional Practices

**ENGLISH LANGUAGE ARTS**

<b>Course</b>	<b>Cred.</b>	<b>Grade</b>	<b>Prerequisite</b>
English I	1	9	
Advanced English I	1	9	
English I and II ESOL	1	9-10	Language and Assessment Scales Test- qualifying score and LPAC Committee placement
English II	1	10	English I
Advanced English II	1	10	English I
English III	1	11	English II
AP English Language and Composition	1	11	English II
English IV	1	12	English III
AP English Literature and Composition	1	12	English III
English Composition and Rhetoric (Dual Credit - English 1301-1302)	1	11-12	TVCC admittance
Survey of British Literature I and II (English 2322/2323)	1	11-12	English 1301/1302, TVCC Admittance
College Preparatory Course: ELA	1	12	

**FINE & PERFORMING ARTS**

<b>Course</b>	<b>Cred.</b>	<b>Grade</b>	<b>Prerequisite</b>
<b><u>ART</u></b>			
Art Appreciation	1	9-12	
Art I	1	9-12	
Art II 2D	1	9-12	Art I
Art III 2D	1	9-12	Art II 2D
Art IV 2D	1	11-12	Art III 2D
Art II 3D	1	9-12	Art I
Art III 3D	1	10-12	Art II 3D
Art IV 3D	1	11-12	Art III 3D or any Art 3D credit
Art Competitions and Commissions	1	11-12	Teacher approval - Two years of Art 2D or 3D
Advanced Studio Art	1	10-12	Teacher approval - Art 1 with teacher approval, or completion of Art 2 2D Credit or Art 2 3D credit
AP Art History	1	11-12	World Geography, can be taken simultaneously with World History
AP Studio Art	1	11-12	Art II 2D/3D with teacher approval or Advanced Studio Art Credit

**MUSIC: BAND & CHOIR**

Band I, II, III, IV	1	9-12	Director Approval
Applied Instrumental Music Techniques	1	9-12	Director Approval
Concert Band	1	9-12	Director Approval
Percussion Ensemble	1	9-12	Students must be currently enrolled in concert or marching band
Panther Singers I - IV	1	9-12	
Chorale I - IV	1	9-12	Audition, director approval, and previous private instruction or choral/band experience
Panther Edition Show Choir	1	9-12	Singing audition, dancing audition, sight-reading audition, Director's approval, previous private instruction or choral/band experience. Students in this class must also enroll in Chorale
AP Music Theory	1	11-12	Completion of two years of high school instrumental, choral, or private music instruction

**THEATRE ARTS**

Theatre Arts I	1	9-12	
Theatre Arts II	1	10-12	Theatre I
Advanced Theatre Arts	1	11-12	Theatre I and II
Technical Theatre I	1	10-12	
Technical Theatre II	1	11-12	Theatre Arts I and Technical Theatre I
Theatre Production I	1	11-12	Theatre I and II or Technical Theatre
Theatre Production II	1	12	Theatre Production I

**Other Courses for Fine Art Credit**

Dance	1	9-12	
Dance II	1	10-12	Dance I
Floral Design	1	10-12	Principals of Ag, Food, Natural Resources



**HEALTH SCIENCE**

<b>Course</b>	<b>Cred.</b>	<b>Grade</b>	<b>Prerequisite</b>
Principles of Health Science	1	9-12	
Lifetime Nutrition and Wellness	1/2	9-12	
Human Growth and Development	1	9-12	
Medical Terminology (MDCA1313/NURA1407)	1	10-12	TVCC Admittance/TSI
MDCA 1313, Medical Terminology (Dual Credit - Online)	1	11-12	TVCC Admittance/TSI
Health Science Theory & Clinical Lab (HPRS1105/MDCA1317)	2	11-12	Principles of Health Science Theory & Biology
Practicum in Health Science	2	12	Principles of Health Science and Medical Terminology/TVCC Admittance (TSI)
Practicum in Nursing I (NURA1401/1160)	2	11-12	Principles of Health Science and Medical Terminology/TVCC Admittance (TSI)
Practicum in Nursing II (HPRS1105/MDCA1317)	2	12	Practicum in Nursing I
Sports Medicine I	1	9-11	
Sports Medicine II	1	10-12	Sport Med I
Practicum in Health Science - Sports Medicine	2	11-12	Sport Med II
Anatomy & Physiology	1	11-12	Biology & Chemistry
Medical Microbiology	1	12	Biology & Chemistry

**HOSPITALITY & TOURISM - CULINARY ARTS**

<b>Course</b>	<b>Cred.</b>	<b>Grade</b>	<b>Prerequisite</b>
Introduction to Culinary Arts	1	9-12	
Culinary Arts	1	10-12	Intro to Culinary Arts
Practicum in Culinary Arts I or II	2	11-12	Culinary Arts

**HUMAN SERVICES— COSETOLOGY**

<b>Course-Nail Technician/Manicurist (Dual Credit + Lab Fee)</b>	<b>Cred.</b>	<b>Grade</b>	<b>Prerequisite</b>
Introduction to Cosmetology (CSME1430/CSME1431)	1	12	TVCC Admittance (TSI)
Cosmetology I/Lab (CSME1431/CSME1443)	3	12	TVCC Admittance (TSI)

**INFORMATION TECHNOLOGY**

<b>Course</b>	<b>Cred.</b>	<b>Grade</b>	<b>Prerequisite</b>
Principles of Information Technology	1	9-12	
Web Technologies	1	10-12	Principles of Information Technology
Computer Programming I	1	11-12	Principles of Information Technology & Algebra I
Practicum of Information Technology I and II	2	11-12	Web Tech or Computer Programming or TVCC DC Computer Maintenance or Networking TVCC Admittance TSI
Computer Maintenance/Lab (Dual Credit ITSC1325/1305 Online)	2	10-12	TVCC Admittance TSI
Networking (Dual Credit ITNW1358/1325 Online)	2	11-12	TVCC Admittance TSI
Info Technology & Security (Dual Credit ITSY1300/1342 Online)	2	10-12	Principles of Information Technology & Computer Maintenance/LAB—TVCC Admittance TSI

**LANGUAGES OTHER THAN ENGLISH**

<b>Course</b>	<b>Cred.</b>	<b>Grade</b>	<b>Prerequisite</b>
Spanish I	1	9-11	
Advanced Spanish I	1	9-11	
Spanish II	1	9-12	Spanish I
Advanced Spanish II	1	9-12	Spanish II with grade of 80 or higher
Advanced Spanish III	1	10-12	Completion of Adv. Spanish II
AP Spanish IV	1	11-12	Completion of Adv. Spanish III

**LAW AND PUBLIC SERVICE**

<b>Course</b>	<b>Cred.</b>	<b>Grade</b>	<b>Prerequisite</b>
Principles of Law, Public Safety, Corrections and Security	1	9-12	
Law Enforcement I	1	10-12	Principles of Law
Law Enforcement II	1	11-12	Law Enforcement I
Practicum in Law, Public Safety, Corrections and Security	2	12	Law Enforcement I & II
Forensic Science	1	12	Biology & Chemistry

**LIFESKILLS**

<b>Course</b>	<b>Cred.</b>	<b>Grade</b>	<b>Prerequisite</b>
LS Communications I-VIII	1	9-12	ARD Decision
LS Mathematics I-VIII	1	9-12	ARD Decision
LS Personal Healthcare I-IV	1	9-12	ARD Decision
LS Social Studies I-VIII	1	9-12	ARD Decision
LS Science I-VIII	1	9-12	ARD Decision
LS Vocational I-VIII	1	9-12	ARD Decision
Occupational Prep	1	9-12	ARD and guardian/teacher recommendation
General Employability Skills	1	11	ARD Decision
School to Industry Connection	1	12	ARD Decision

**MATHEMATICS**

<b>Course</b>	<b>Cred.</b>	<b>Grade</b>	<b>Prerequisite</b>
Algebra I	1	9	
Advanced Algebra I	1	9	
Geometry	1	9-10	Algebra I
Advanced Geometry	1	9	
Mathematical Models with Applications	1	10-12	Algebra I or Geometry
Algebra II	1	10-12	Algebra I or Geometry
Advanced Algebra II	1	10	Advanced Geometry
Pre-Calculus	1	12	Algebra II, Geometry
Advanced Pre-Calculus	1	11	Advanced Algebra II
Calculus I (Dual Credit - Math 2413)	1	12	Pre-Calculus, TVCC admittance (TSI)
Calculus II (Dual Credit - Math 2414)	1	12	Calculus I - MATH2413, TVCC admittance (TSI)
College Algebra (Dual Credit - Math 1314)	1	12	TVCC Admittance (TSI)
Elementary Statistical Methods (Dual Credit - Math 1342)	1	12	TVCC Admittance (TSI)
AP Calculus AB	1	12	Advanced Pre-Calculus
Statistics & Business Decision Making	1	12	Algebra II
College Preparatory Course (Transition to College Math)	1	12	
Accounting II (ACNT1303/ACNT1313)	1	12	Accounting I/TVCC Admittance (TSI)

**MISCELLANEOUS ELECTIVES**

<b>COURSE</b>	<b>CRED.</b>	<b>GRADE</b>	<b>PREREQUISITE</b>
Debate I, II, III, IV	1	9-12	
Journalism	1	9-12	
Advanced Journalism Yearbook I, II, III, IV	1	9-12	Application, approval from instructor
Photojournalism	½	9-12	
Academic Support	1	9-12	SPED/504 Committee recommendation
Academic Support – Advanced	1	9-12	Two or more advanced courses
Psychology	½	11-12	
Sociology	½	11-12	
AP Psychology	1	11-12	
Read 180	½ -1	9-12	
Student Leadership	1	9-12	Application, teacher approval
Academic Decathlon	1	9-12	Teacher approval
AP Seminar Course	1	10	Teacher approval (may count as speech credit)
AP Research Course	1	11	AP Seminar (may count as English Elective credit)
Student Aides	1	12	Approval from teachers/school personnel
Dollars and Sense	½	9-12	
Lifetime Wellness & Nutrition	½	9-12	

**PROFESSIONAL COMMUNICATION**

<b>Course</b>	<b>Cred.</b>	<b>Grade</b>	<b>Prerequisite</b>
Professional Communication	½	9-12	

**SCIENCE**

<b>Course</b>	<b>Cred.</b>	<b>Grade</b>	<b>Prerequisite</b>
Integrated Physics and Chemistry (IPC)	1	10-12	
Biology	1	9	
Advanced Biology	1	9	
Advanced Chemistry	1	9	
Chemistry	1	10-12	Algebra I and Biology
Physics	1	11-12	Two science courses and completion of Algebra II or concurrent enrollment in Algebra II
Advanced Physics	1	11-12	
Environmental Systems	1	10-12	One year of science
Aquatic Science	1	11-12	
Earth and Space Science	1	11-12	
Forensic Science	1	11-12	Biology, Chemistry, and Law Enforcement I
Anatomy and Physiology	1	11-12	Biology, Chemistry
AP Chemistry	1	11-12	Biology and Chemistry as well as Algebra II
AP Biology	1	11-12	Biology
Biology 1406/1407 Dual Credit or 1408/1409	2	11-12	TVCC Admittance, Biology and Chemistry
AP Physics I	1	11-12	Geometry or concurrent enrollment in Algebra II
AP Environmental Science	1	11-12	Biology and Chemistry
Medical Microbiology	1	11-12	Biology and Chemistry
Plant and Soil Science	1	11-12	Biology, IPC, Chemistry and one course from Ag, Food, and Natural Resources preferably from the Horticulture/Floral Design Career Cluster
Animal Science (AGAH1401)	1	11-12	Livestock Production, Equine Science, or Small Animal SAEP Required/TSI

**SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS**

<b>COURSE</b>	<b>CRED</b>	<b>GRADE</b>	<b>PREREQUISITE</b>
Introduction to Engineering and Design (PLTW1)	1	9-10	
*Engineering Science/Principals of Engineering (PLTW2)	1	10-11	PLTW1, Algebra I & Biology, IPC, and Chemistry or Physics *Science credit*
Engineering Design & Development (PLTW3)	1	11-12	PLTW2
*Engineering Design & Problem Solving	1	12	PLTW3 *Science credit*

**SOCIAL STUDIES**

<b>COURSE</b>	<b>CRED.</b>	<b>GRADE</b>	<b>PREREQUISITE</b>
World Geography	1	9	
Advanced World Geography	1	9	
AP Human Geography	1	11-12	
World History	1	10	
Advanced World History	1	10	
AP World History	1	11-12	Advanced World History
United States History	1	11	
AP United States History	1	11-12	Advanced World History
United States History to 1877 (Dual Credit- History 1301)	1/2	11	TVCC Admittance
United States History from 1877 (Dual Credit- Hisotry 1302)	1/2	11	TVCC Admittance
United States Government	1/2	12	US History, World Geography, and World History
Economics	1/2	12	US History, World Geography, and World History
US Government & Constitutions (Dual Credit 2305)	1/2	12	US History, World Geography, and World History, TVCC Admittance
TX Government & Constitutions (Dual Credit 2306)	1/2	12	US History, World Geography, and World History, TVCC Admittance
Principles of Macroeconomics (Dual Credit 2301)	1/2	12	US History, World Geography, and World History, TVCC Admittance
Psychology	1/2	11-12	
Sociology	1/2	11-12	
AP Psychology	1	11-12	
World Religions	1	11-12	World History
AP European History	1	11-12	

**TRANSPORTATION, DISTRIBUTION & LOGISTICS**

<b>COURSE</b>	<b>CRED.</b>	<b>GRADE</b>	<b>PREREQUISITE</b>
Principles of Transportation Systems	1	9-12	
Energy Power and Transportation Systems	1	10-12	Principals of Transportation Systems
Automotive Technology I	2	11-12	Energy Power & Transportation Systems
Automotive Technology II	2	12	Automotive Technology I
Practicum in Transportation Systems	2	12	Completion of at least 3 credits in a coherent sequence of courses in the Transporation Career Cluster
Small Engine Technology I	1	10-12	Engergy, Power, and Transporation
Collision Repair	2	11-12	Energy Power & Transportation Systems
Paint & Refinishing	2	12	Collision Repair

# Course Descriptions

## Agriculture, Food, and Natural Resources

### Animal Science

Level 1 Principles of Ag, Food & Natural Resources  
 Level 2 Livestock Production (AGAH2313/AGAH1353)  
 Vet Medical Applications (AGAH1447/AGRI2321)  
 Level 3 Small Animal Management , Equine Science (AGEQ1411)  
 Level 4 Animal Science (AGAH1401), Practicum in Ag, Food, and Nat. Resources– Veterinary Science

### Principles of Agriculture, Food & Natural Resources

1 Credit-Grades 9-12

Prerequisites: None \*SAEP Required\*

Principles of Agriculture, Food, and Natural Resources will allow students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. To prepare for success, students need opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings. Topics of discussion will include: \*SAEP-Supervised Agriculture Experience Programs (Project Programs), it's requirements and operations; the FFA Organization from the local to the national level; and the agriculture curriculum to be studied during this semester course, as well as throughout the high school years.

### Applied Agricultural Engineering

Level 1 Principles of Agriculture, Food & Natural Resources  
 Level 2 Agriculture Mechanics and Metal Technology (WLDG1323/1317)  
 Level 3 Agricultural Structures Design and Fabrication (WLDG1353/1428/1407/1457)  
 Level 4 Practicum in Agriculture, Food, and Natural Resources (2021-22: WLDG1202/1430/1206, 2443)- Welding

### Agriculture Mechanics and Metal Technology (WLDG 1323 & WLDG 1317)

1 Credit - Grades 10-12

Prerequisites: \*SAEP Required

TVCC Admittance—TSI\*

Agricultural Mechanics and Metal Technologies is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings. Supervised student activities are required. Point system applies.

### Environmental & Natural Resources

Level 1 Principles of Agriculture, Food & Natural Resources  
 Level 2 Wildlife, Fisheries, and Ecology Management  
 Level 3 Practicum in Agriculture, Food, and Natural Resources I w/ Internship– Project Based Research and Aquatic Science  
 Level 4 Practicum in Agriculture, Food, and Natural Resources II w/Internship Scientific Research and Design & Environmental Science

### Agricultural Structures Design and Fabrication (WLDG1353/1428/1407/1457)

1 Credit - Grades 10-12

Prerequisites: \*SAEP Required\*

TVCC Admittance— TSI\*

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

### Plant Science

Level 1 Principles of Agriculture, Food & Natural Resources  
 Level 2 Floral Design  
 Level 3 Horticulture Science  
 Level 4 Plant and Soil Science Practicum in Agriculture, Food, and Natural Resources– Horticulture

**Plant and Soil Science****1 Credit - Grades 11-12****Prerequisites: Biology, IPC, Chemistry or Physics and one course from Ag, Food & Natural Resources preferably from the Horticulture/Floral Design Career Cluster****Category IV**

Advanced Plant and Soil Science provides a way of learning about the natural world. Students learn how plant and soil science has influenced a vast body of knowledge, applications are yet to be discovered, and that plant and soil science is the basis for many other science fields. 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.

**Equine Science (AGEQ1411)****1/2 Credit - Grades 11-12****Prerequisites: \*SAEP Required TVCC Admittance—TSI**

In Equine Science, students will acquire knowledge and skills related to equine animal systems and the equine industry. Equine Science may address topics related to horses, donkeys, and mules. 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.

**Small Animal Management****1/2 Credit – Grades 11-12****Prerequisites: \*SAEP Required**

This course is designed to provide a foundation in the field of animal science. Instruction regarding career opportunities, entry requirements, and industry expectations will be provided. Students will be provided opportunities to learn, reinforce, apply, and transfer knowledge and skills in a variety of settings. Suggested small animals which may be included in the course of study include, but are not limited to, small mammals, amphibians, reptiles, avian, dogs, and cats.

**Animal Science (AGAH1401)****1 Credit - Grades 11-12****Prerequisites: Biology & Chemistry; Algebra I & Geometry, & either Small Animal Management, Equine Science or Livestock Production \*SAEP Required TVCC Admittance—TSI\*****Category IV**

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. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

**Livestock Production (AGAH 2313/1353)****1 Credit-Grades 10-12****Prerequisites: \*SAEP Required**

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. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

**Practicum in Agriculture, Food, and Natural Resources-Welding (WLDG1202/1430/1206/2443)****2 Credit-Grades 12****Prerequisites: Completion of at least three credits in a career coherent sequence of courses in the Ag Career Cluster Welding TVCC Admittance—TSI**

This practicum course is a project based learning experience developed by a student or group of students, teacher and an interdisciplinary mentor team. The project provides opportunities for an in- depth study of at least one aspect of the agricultural science and technology area. The student, or group, demonstrates the ability to utilize a variety of resources, advanced technology, and communication skills in the development and presentation of the project.

**Floral Design****1 Credit – Grades 10-12****Prerequisite: Principles of Ag, Food, and Natural Resources**

Floral Design is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students will develop respect for the traditions and contributions of diverse cultures. Students will respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations. To prepare for careers in floral design, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings. Lab fees along with supplies and material fees may be required. Floral design offers Texas State Floral Association Floral Certification

**Horticulture Science****1 Credit – Grades 11-12****Prerequisite: Principles & Elements of Floral Design**

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

**Practicum in Agriculture, Food, and Natural Resources –Horticulture/Floral****1 Credits - Grade 12****Prerequisites: Completion of at least three credits in a career coherent sequence of courses in the Ag Career Cluster Horticulture and Floral.**

This lab course prepares students to produce, process, and market horticulture plants used principally for ornamental, recreational, and aesthetic purposes and to establish, maintain, and manage horticultural enterprises. The course includes structures, machinery, and equipment necessary for each horticultural enterprise. Students will learn classification and identification of horticultural plants, floral designs, environmental requirements, use of media, propagation of plants and the growing of greenhouse plants, nursery production, landscaping and establishment and care of turfs. Experiences with the production of vegetables, fruits and nuts, control of soil and plant diseases, insects, and weeds will be provided. The importance of the horticulture industry will be stressed. Structure and equipment requirements for horticulture production will be taught. Career and employment opportunities and an understanding of greenhouse and nursery business management will be introduced

**Wildlife, Fisheries, and Ecology Management****1 Credit - Grades 10-12****Prerequisites: None \*SAEP Required**

Wildlife, Fisheries, and Ecology Management is designed to examine the importance of wildlife and outdoor recreation while developing skills in management, identification of fish and wildlife, laws, policies and regulations, hunter safety certification, career investigation, and leadership activities. Supervised student activities required. Point system applies.

**Veterinary Medical Applications (AGAH1447/AGRI2321)****1 Credit- Grades 10-12****Prerequisites: Recommended Courses: Livestock Production, Advanced Animal Science. TVCC Admittance—TSI**

Veterinary Medical Applications covers topics relating to veterinary practices, including practices for large and small animal species. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings. Veterinary Medical Applications offer certified Vet Assistant written exam certification. The 300 observation skills hours with certified vet are required to complete the certification are outside of the normal school day only. Coordinator and recording of hours is the student's responsibility. Students are encouraged to partner with a vet beginning their sophomore year.

**Agribusiness Management and Marketing****1 Credit – Grades 10-12****Prerequisite: Principles of Ag, Food, & Natural Resources**

This course 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.

**Energy and Natural Resources****1 Credit – Grades 10-12****Prerequisite: Teacher Approval Required**

Energy and Natural Resource Technology examines the interrelatedness of environmental issues and production agriculture. Students will evaluate the environmental benefits provided by sustainable resources and green technologies. Instruction is designed to allow for the application of sciences and technology to measure environmental impacts resulting from production of agriculture through field and laboratory experiences.

# Athletics & Physical Education

Students are required to have 1 credit of physical education. Students may earn additional elective credits in physical education up to a maximum of 4 credits. Athletics counts as physical education credit. The following courses, offered in other departments, also count as the required physical education credit: Marching Band, Cheer, and Drill Team.

## Physical Education-Individual Sports Physical Education- Team Sports Foundations of Physical Fitness

### 1/2-1 Credit—Grades 9-12

Emphasis is placed on creating a wholesome sportsman-ship-like atmosphere where students improve their level of fitness as well as their knowledge and skill in team and individual sports. Fitness units include testing, aerobic dance, jogging, walking, and weight training. Team sports include speedball, volleyball, basketball, soccer, and softball. Individual sports include tennis, badminton, and life sports.

### Partner PE

#### 1/2-1 Credit—Grades 10-12

#### Application required

Partner PE provides an opportunity for fellow students to assist students with multiple challenges during their adapted Physical Education period. Partners are required to dress for PE and are expected to provide modeling and guidance to the MC students during a variety of fitness and sports related activities. Additionally, the Partners are responsible for developing and teaching a PE unit each semester. The MC students will pick up on the enthusiasm of their peers.

## Athletics (Boys and Girls) I, II, III, IV

### 1 Credit—Grades 9-12

#### Prerequisites: Pass a physical examination.

Athletics provides a series of competitive games scheduled during the year. All athletes wanting to participate in team sports will be required to be in the athletic period. The sports offered for boys are football, basketball, baseball, golf, tennis, track and soccer. The sports offered for girls are volleyball, basketball, golf, tennis, track, softball, powerlifting, and soccer. A student who quits a sport will not be allowed in another sport until the sport they quit is completed. At that time it will be the decision of the second sport coach to allow the athlete to participate. If the student is allowed to participate, he/she must run a total of 10 miles in five days for quitting the first sport.

## Physical Education- Adventure/Outdoor Education: Archery

### 1 Credit – Grades 9 - 12

This course is designed to provide students with the opportunity to master their skills with the bow and arrow. The core content covers archery history, safety, techniques, equipment, mental concentration, core strengthening physical fitness and self-improvement.

## Physical Education- Adventure/Outdoor Education: Competition Archery

### 1 Credit – Grades 9 - 12

#### Director approval required

This course is designed to provide students with the opportunity to master their skills with the bow and arrow. The core content covers archery history, safety, techniques, equipment, mental concentration, core strengthening physical fitness and self-improvement. Commitment to competitions outside of the normal school day is required.

## Sports Medicine I

### 1 Credit—Grades 9-11

This course provides an opportunity for the study and application of the components of sports medicine including but not limited to sports medicine related careers, prevention of athletic injuries, rehabilitation and management skills, taping and wrapping techniques, first aid/CPR/AED, emergency procedures, nutrition, sports psychology, therapeutic modalities and therapeutic exercise.

## Sports Medicine II

### 1 Credit—Grades 10-12

#### Prerequisite: Sports Med I

This course is designed for athletic training students. It provides an in-depth study and application of the components of sport medicine and will involve outside-of-class time homework and time required working with athletes and athletic teams.

## Practicum in Sports Medicine

### 2 Credit—Grades 11-12

#### Prerequisites: Sports Med II

This course will provide a logical progression for students that have advanced through the sports medicine courses, prepare them for college level coursework and provide them with an opportunity to apply the knowledge and skills they have gained to athletic injury recognition, evaluation, management, treatment, and rehabilitation through research investigations and applications related to sports medicine. The course includes detailed instruction, training, and non-paid work based experience in the sports medicine field.

## Varsity Drill Team

### 1 Credit—Grades 9-12

#### Prerequisites: Pass auditions.

The Varsity Dance Team is an auditioned and competitive organization. Varsity dance elaborates on the fundamentals of dance with a focus on more advanced disciplines, including flexibility and high-kick, jazz, modern, lyrical, and hip-hop. Strict discipline and high moral standards are required of all members. Varsity Dance Team is an extra-curricular activity that requires a significant amount of time and commitment outside of regular school hours. Fees are also required. Contact the high school director for more information.

## Dance I, II, III, IV

### 1 Credit—Grades 9-12

Provides an overview of movement for the stage for students wishing to learn a wide variety of dance technique. Students will be exposed to basic technique in ballet, modern, jazz, and tap and develop anatomical awareness that is pervasive throughout their lives. Gaining movement skills and finding confidence and enjoyment through movement are a focus of this course with the intention that skills acquired are applied in a theatrical performance setting. No previous dance experience is necessary. This course may be used for Physical Education OR Fine Art credit.



# Business, Marketing, and Finance

## Accounting and Financial Services

- Level 1 Principles of Business, Marketing & Finance  
Business Information Management I
- Level 2 Accounting I (ACNT 1303 & ACNT 1304)
- Level 3 Accounting II (ACNT 1311 & ACNT 1313) Entrepreneurship
- Level 4 Practicum in Business Management

## Business Management

- Level 1 Principles of Business, Marketing & Finance  
Business Information Management I
- Level 2 Business Law (BMGT 1341/BMGT 1327)  
Business Information Management II
- Level 3 Practicum in Business Management I
- Level 4 Statistics and Business Decision Making, Practicum in Business Management II

## Entrepreneurship

- Level 1 Principles of Business, Marketing & Finance  
Business Information Management I
- Level 2 Entrepreneurship
- Level 3 Practicum in Business Marketing I,  
Practicum in Business Management I
- Level 4 Practicum in Marketing II, Practicum in Business Management II

## Marketing and Sales

- Level 1 Principles of Business, Marketing & Finance
- Level 2 Sports and Entertainment Marketing
- Level 3 Practicum in Marketing I
- Level 4 Practicum in Marketing II  
Statistics and Business Decision Making

## Principles of Business, Marketing & Finance

**1 Credit -Grades 9-12**

An introduction to economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing includes an analysis of the sales process and financial management principles.

## Business Information Management I

**1 Credit- Grades 9-12 Prerequisites: Keyboarding**

Business Computer Information Systems I develops technology skills with applications to personal or business situations focusing on word processing, spreadsheets, databases, telecommunications, desktop publishing, presentation management, networking, operating systems, and emerging technologies; and develops intermediate-level skills.

## Business Information Management II

**1 Credit – Grades 10-12**

**Prerequisites: BIM I**

Business Computer Information System II emphasizes the concepts and skills related to advanced computer applications in the business environment. Special emphasis is placed on computer operations (both software and hardware), word processing, database management, spreadsheet, manipulation, multimedia presentations, desktop publishing, Internet and other high-level business application software integration. This lab course provides advanced technology skills in Microsoft Office required to pass Microsoft Office Specialist (MOS) certification exams.

## Business Law

**(BMGT 1341/1327) TVCC Admittance—TSI**

**1 Credit- Grades 11-12**

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.

## Practicum in Business Management I or II

**2 Credits – Grade 11-12**

**Prerequisite: Completion of at least 3 credits in a coherent sequence of courses in the Business, Marketing & Finance Career Cluster**

This course provides opportunities for students to participate in a learning experience that combines classroom instruction with non-paid business and industry employment experiences and supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. The Practicum is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in an unpaid arrangement and can include a variety of locations appropriate to the nature and level of experience. Practicum offers advanced Microsoft Office Specialist Certifications.

**BCIS 1305 (Dual Credit - Online)****1 Credit – Grades 11-12****TVCC Admittance—TSI**

This course covers computer terminology, hardware, software, operating system and information systems relating to the business environment. The focus of this course is on business applications of software and business-orientation utilization of the internet.

**Accounting I****(ACNT 1303 & ACNT 1304)****1 Credit- Grades 11-12****TVCC Admittance—TSI**

In Accounting I, students will investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in the process of recording, classifying, summarizing, analyzing, and communicating accounting information. Students will formulate and interpret financial information for use in management decision making.

**Accounting II****(ACNT 1311 & ACNT 1313)****1 Credit- Grades 12****TVCC Admittance—TSI**

In Accounting II, students will continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in various managerial, financial, and operational accounting activities. Students will formulate, interpret, and communicate financial information for use in management decision making. Students will use equations, graphical representations, accounting tools, spreadsheet software, and accounting systems in real- world situations to maintain, monitor, control, and plan the use of financial resources. Accounting II offers certified Quickbook User Certification.

**Entrepreneurship****1 Credit- Grades 10-12**

In Entrepreneurship, 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.

**Sports and Entertainment Marketing****1/2 Credit-Grades 10-12**

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

**Practicum in Marketing I or II & Extended Practicum****2 Credits- Grades 11-12**

**Prerequisites: Driver's license is required. Students must have transportation and are encouraged to be a member of DECA.**

An occupational specific course designed to focus on the marketing concepts and principles and their practical applications. Students will gain a working knowledge of the marketing concept and its application. The classroom instruction includes a work-based component. Computer-based virtual business simulations will be used throughout the course. Employment is an approved paid work-based learning environment for a minimum average of 15 hours per week. Employment is required to span the entire school year.

# Construction

## Architecture and Construction

**Level I Principles of Construction**

**Level II Construction Technology I (2022-23)**

**Level III Construction Technology II (2023-24)**

**Practicum in Construction Technology (2023-24)**

### Construction Technology I

**2 Credits—Grades 10-12**

Prerequisite: Principles of Construction

In Construction Technology I, students will gain knowledge and skills needed to enter the workforce as carpenters or building maintenance supervisors or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will acquire knowledge and skills in safety, tool usage, building materials, codes, and framing. For safety and liability considerations, limited course enrollment to 15 students is recommended.

### Practicum in Construction Technology (2023-2024)

**2 Credits - Grade 12**

Prerequisites: Construction Technology II

In Practicum in Construction Technology, students will be challenged with the application of gained knowledge and skills from Construction Technology I and II. In many cases, students will be allowed to work at a job (paid or unpaid) outside of school or be involved in local projects the school has approved for this class.

### Principles of Construction

**1 Credit - Grades 9-12**

Principles of Construction provides an overview to the various fields of architecture, interior design, and construction management. Achieving proficiency in decision-making and problem solving is an essential skill for career planning and lifelong learning. Students use self-knowledge, education, and career information to set and achieve realistic career and educational goals. Job-specific training can be provided through training modules that identify career goals in trade and industry areas. Classroom studies include topics such as safety, work ethics, communication, information technology applications, systems, health, environment, leadership, teamwork, ethical and legal responsibility, employability, and career development and include skills such as problem solving, critical thinking, and reading technical drawings.

### Construction Technology II (2022-2023)

**2 Credits— Grades 11-12**

Prerequisite: Construction Technology I

In Construction Technology II, students will gain advanced knowledge and skills needed to enter the workforce as carpenters, building maintenance technicians, or supervisors, or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will build on the knowledge base from Construction Technology I and are introduced to exterior and interior finish out skills.

# Education & Training

## Teaching and Training

**Level I Human Growth and Development**

**Level II Instructional Practices**

**Level III Practicum in Education and Training I**

**Level IV Practicum in Education & Training II**

### Human Growth & Development

**1 Credit - Grades 9-12**

Human Growth and Development is an examination of human development across the lifespan with emphasis on 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

**2 Credits - Grades 11-12**

**Prerequisites: Human Growth and Development**

Instructional Practice in Education and Training is a field based internship which provides students background knowledge of child and adolescent development principles as well as principles of effective teaching practices. The students are involved in observations as well as direct student instruction; placement rotations are utilized to allow students to have experiences in a full range of education career roles, grade levels, subject areas and ability groups.

### Practicum in Education and Training I or II

**2 Credits- Grade 12**

**Prerequisites: Instructional Practice in Education and Training**

Practicum in Education and Training is a field based internship which provides students background knowledge of child and adolescent development principles as well as principles of effective teaching practices. The students are involved in observations as well as direct student instruction; placement rotations are utilized to allow students to have experiences in a full range of education career roles, grade levels, subject areas and ability groups.

# English Language Arts

The graduation requirements for English can be met through either of the following:

- Traditional Sequence: English I, II, III, and IV are the English courses designed for the on-grade level student and meet the requirements for the General Transcript.
- AP Sequence: Advanced English I, Advanced English II, AP Language & Composition or English 1301/1302, and AP Literature & Composition or English 2322/2323 are designed for the student who is functioning above grade level in the regular English program.

### English I

**1 Credit – Grade 9**

#### Category IV

English I objectives are to practice and improve skills in reading, writing and verbal communication. Verbal skills include effective speaking and vocabulary improvements. Critical reading and literary analysis will be drawn from a variety of literary genres. Writing skills include practice in Standard English, grammar, syntax, and mechanics plus practice in written compositions including literary, informative, and persuasive discourse in preparation for STAAR. Independent reading is required

### Advanced English I

**1 Credit – Grade 9**

#### Category II

This Advanced course is designed for college-bound students who desire a rigorous, advanced-level class. In addition to covering the standard English I curriculum, special emphasis is placed on targeted literary analysis skills necessary for success in the Advanced Placement program. Reading from a variety of genres and writing varied modes of purpose will be a continual process throughout the entirety of the school year. Daily reading is required. Students who choose this course may need to purchase novels. Courses are designed to promote higher-level thinking skills, vocabulary expansions, and a transfer of knowledge for a successful progression into the AP program.

**English I & II ESOL****1 Credit – Grades 9 & 10****Prerequisites:** Language Assessment Scales Test qualifying score and LPAC Committee placement.**Category IV**

English for Speakers of Other Languages is an intensive program of language instruction designed to develop competence in English. Up to two credits toward the state required English credits for graduation on the minimum plan may be earned in this program.

**English II****1 Credit—Grade 10****Prerequisites:** English I**Category IV**

English II includes a survey of short stories, poetry and drama, the reading of a classic novel, a concentration on vocabulary, and the development of skills needed to succeed on STAAR. Independent reading is required.

**Advanced English II****1 Credit – Grade 10****Category II**

An extension of Advanced English I, this advanced-level class is designed to further enhance the analytical reading and writing skills of the college-bound student. The Standard English II curriculum is expanded through exposure to a wider variety of literature and more refined writing skills. Specific literary analysis skills will be introduced and reinforced in preparation for the Advanced Placement program. This is a fast-paced class which requires daily reading. Students who choose this course may need to purchase novels. Courses are designed to promote higher-level thinking skills, vocabulary expansions, and a transfer of knowledge for a successful progression into the AP program.

**English III****1 Credit—Grade****11****Category IV**

English III is designed to create an appreciation for and knowledge of American authors and their representative works. Reading, as well as writing, in response to selections is stressed. Students prepare intensively for STAAR. Independent reading is required.

**English 1301/1302, English Composition and Rhetoric (Dual Credit)****Prerequisites:** TVCC admittance—TSI**Category I**

English 1301/1302, aims to help the student acquire and/or improve skills in producing effective writing which observes the conventions of Edited American English - i.e., writing which is acceptable in the academic and professional world. The student will be guided through the composition process, encouraged to find and improve his/her own writing style, and guided in the analysis and evaluation of his own and others' writings. In addition to purchasing textbook(s), each student will be required to purchase software access to turn in assignments to TVCC

**AP Language & Composition****1 Credit—Grade 11****Prerequisites:** (1) 10th grade English teacher recommendation and (2) 70 or above in English II or (3) 90 or above in English II and (4) English II STAAR passing level II on both reading and writing.**Category I**

*Recommended for:* students interested in pursuing a career in Acting, Advertising, Broadcast Journalism, Business, Communication Sciences, Comparative Literature, Education, English, Film Studies, History, Hospitality Management and Tourism, Law, Linguistics, Nursing, Philosophy, Political Science and Government, Psychology, Religious Studies, Social Work, Sociology, Theatre Arts, or Tourism and Travel.

Advanced Placement Language and Composition is a challenging two-semester course that engages students in becoming skilled readers of prose written in a variety of periods, disciplines and rhetorical contexts, primarily through American Literature. It develops skilled writers who compose for a variety of purposes. Daily reading is required. Students who choose this course may need to purchase novels.

**English IV****1 Credit—Grade 12****Category IV**

English IV, a required course, surveys the language and works of our literary heritage from 450 AD to the present. Poetry, drama and novels will offer enriched reading and writing assignments as the class watches the maturity of English expression. Covering eight periods of designated time when history and literature met, the course will offer opportunity for a broadened vocabulary and more effective communication and timely excursions. A research paper is included among the studies of genres from the land that gave us "English."

**AP Literature and Composition****1 Credit—Grade 12****Prerequisites:** Eleventh grade teacher recommendation and 70 or above in AP English III or 90 or above in English III and English III STAAR passing level II on both reading and writing.**Category I**

*Recommended for:* students interested in pursuing a career in Anthropology, Art History/Criticism/Conservation, Classics, Communication Sciences, Comparative Literature, Education, English, Ethnic Studies, Film Studies, History, Journalism, Linguistics, Philosophy, Political Science and Government, Psychology, Religious Studies, Sociology, Studio Arts, or Theatre Arts. AP Literature and Composition is a two-semester course. The primary goal is to develop critical reading and writing abilities that will enable the student to perform at a college-level of proficiency. AP English is both demanding and intellectually stimulating as students read literature of various genres, periods, cultures and themes. Written assignments, both short- and long-term, will be an important feature of this two-semester course. Daily reading is required. Students who choose this course may need to purchase novels.

**English 2322 Survey of British Literature I (Dual Credit)****½ Credit – 12th Grade Prerequisite: English 1302****Prerequisites: TVCC admittance—TSI****Category I**

A survey of the development of British Literature from the Anglo-Saxon period to the Eighteenth Century. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

**English 2323 Survey of British Literature II (Dual Credit)****½ Credit – 12th Grade Prerequisite: English 1302****Prerequisites: TVCC admittance—TSI****Category I**

A survey of the development of British Literature from the Romantic period to current. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

**College Preparatory Course: English Language Arts and Reading****1 Credit-- 12th Grade****Prerequisites: TVCC admittance****Category IV**

**Description:** This course provides foundation work in the areas of reading and writing for the student who intends to advance to college level work. This course content includes three required assignments to develop and apply reading and writing skills deemed essential for potential college students. The goal of these three large assignments is to create a workshop environment in the classroom where students can participate in ongoing study of reading and writing. Students are encouraged to maintain a portfolio of these three assignments/artifacts throughout the college application process.

## Fine & Performing Arts

### ART

**Art Appreciation****1 Credit (one semester course) Grades 9-12**

This is a one semester course. It will introduce learners to the various forms of the visual arts, such as painting, sculpture and more. Students will learn how to look at a work of art, identify and compare key characteristics in artworks, and understand 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.

**Art I****1 Credit Start Semester One Grades 9-12**

This is an entry level course similar to a buffet at a restaurant. Students will sample, explore and create artwork using different two and three-dimensional art media. Students will study and produce work using the art elements, principles of design, composition, and perspective; while, being introduced to various techniques, in drawing, painting, printmaking, digital media and sculpture

**Art II 2D****1 Credit – Grades 9-12****Prerequisites: Completion of Art 1 Credit**

This course teaches students advance techniques and processes specific to drawing, painting, printmaking and digital media. This course will increase your artistic confidence and lay the groundwork for further study in other 2D art classes, or to help in your own artistic endeavors.

**Art III 2D****1 Credit- Grades 9-12****Prerequisites: Completion of Art 2 Credit**

Students must display innovative drawing, painting, printmaking and digital media techniques using a variety of art tools to generate art. Students create artworks for a personal portfolio based on evaluation of developmental progress, competency in problem-solving, and a variety of visual ideas.

**Art IV 2D****1 Credit – Grades 11-12****Prerequisites: Completion of Art 3 2D Credit**

Students will produce an original body of artwork that integrates information from a variety of sources and demonstrates sustained, self-directed investigations into specific themes. They develop and evaluate criteria for selecting artworks to include in a portfolio and senior exhibition that demonstrate a high level of creativity and expertise in one or more 2D art areas.

**Art II 3D****1 Credit – Grades 9-12****Prerequisites: Completion of Art 1**

Students produce low and high relief sculptures; as well as, sculptures in the round utilizing ceramics, plaster, wood, metal, glass, fibers/fabric, weaving, crochet, and jewelry making. This course will lay the groundwork for further study in other 3D art classes, or to help in your own artistic endeavors.

**Art III 3D****1 Credit – Grades 10-12****Prerequisites: Completion of Art 2 Sculpture**

In this course students select from ceramics, plaster, wood, metal, glass, fibers/fabric, weaving, crochet, and jewelry making to express their artistic intent and generate 3D art. Student artistic meanings must show innovation and provide examples of in-depth exploration of one or more themes/topics. Students create artworks for a personal portfolio based on evaluation of progress, competency in problem-solving, and a variety of visual ideas.

**Art IV 3D****1 Credit – Grades 11-12****Prerequisites: Completion of Art 3 Sculpture or 3D Credit**

Students will determine their focus depending on accessible materials creating a class syllabus with the instructor. This course will allow students further study in sculptural media, and aide in improving artistic endeavors while justifying design ideas, and concepts into completed compositions. Students produce an original body of artwork that integrates information from a variety of sources and demonstrates sustained, self-directed investigations into specific themes.

**Art Competitions and Commissions****1 Credit- Grades 11-12 (Teacher Approval)****Prerequisites: Two years of either 2D or 3D classes (may have entry fee)**

This course teaches students about working in the field of studio art. Students will learn to complete artworks at the request of others, while working on commissions for the high school and community. This course requires students to participate in an art competition, as well as a number of art shows.

**Studio Art****1 Credit – Grades 10-12 (Teacher Approval)****Prerequisites: Completion of Art 1 with teacher approval, or completion of Art 2 2D Credit or Art 2 3D Credit****Category III**

Students create artworks for a personal portfolio based on evaluation of developmental progress preparing to complete a successful AP Studio Portfolio during their Jr./Sr. year. Students will determine their focus depending on materials from a variety of art media and tools to express their artistic talents creating a class syllabus with the instructor determining their individual goals. Students must approach this course tenaciously problem-solving a variety of visual ideas and preparing to take AP Studio Art course next year.

**AP Art History****1 Credit Start Fall Semester-Grades 11-12****Prerequisites: Completion of World Geography, Can be taken simultaneously with World History if students are highly motivated individuals. (This class can serve as Fine Arts Credit without Art 1.)****Category I**

The AP Art History course explores such topics as the nature of art, its uses, its meanings, art making and responses to art. Through investigation of diverse artistic traditions of cultures from prehistory to present, the course fosters in-depth and holistic understanding of the history of art from a global perspective. Students learn and apply skills of visual, contextual, and comparative analysis to engage with a variety of art forms, constructing understanding of individual works and interconnections of art-making processes and products throughout history.

**AP Studio Art****1 Credit – Grades 11-1****Prerequisites: Completion of Art 2 2D/3D Credit with teacher approval or Pre-AP Studio Credit****Category I**

AP Studio Art is a college level course taught in high school.

Students will study drawing or 2-D design, thereby building a foundation for further study of visual art in higher education. Students will have the opportunity to compile a portfolio of their best work for submission to be submitted to College Board. Students will decide whether to submit a Drawing or 2-D Design portfolio, the finer distinction between the two portfolios will be discussed in class. Portfolios will include: *Breadth*: This section of twelve works in digital form shows a variety of drawing or design approaches using different techniques, compositions, and media. *Concentration*: This section of twelve works in digital form shows the development of a unifying theme or idea. *Quality*: This section consists of five actual "best" works.

**Music****Band I, II, III, IV****1 Credit—Grades 9-12****Prerequisites: Director's approval**

Band is an instrumental program designed to achieve excellence by students becoming proficient on their instrument, then working with the group as a whole. The year includes participation in marching, concert and sight-reading and solo and ensemble preparation. The fall semester may count as P.E. credit. Students will develop tone quality, sight reading and technique on their instruments to meet the minimum performance standards.

**Applied Instrumental Music Techniques****1 Credit—Grades 9-12****Prerequisites: Director's approval**

This course is designed for improvement of overall skills on wind instruments. It allows individuals preparation time for all region, area and state competition as well as solo and ensemble preparation.

**Concert Band****1 Credit--Grades 9-12****Prerequisites: Director's Approval**

The course is designed as a separate class for students that do not participate in Marching Band or students who wish to learn a new instrument while participating in the regular band class. The goal of the class is to compete at UIL Concert and Sight-reading in the spring as well as improve the overall abilities of the individual student.

**Percussion Ensemble****1 Credit-- Grades 9-12****Prerequisite: Students must be concurrently enrolled in concert or marching band**

Percussion Ensemble provides an opportunity for all percussion students to attain further knowledge about the percussion instruments. Topics discussed in this class will be more in depth than the topics discussed in a standard band class. Students will receive advanced training in marching band skills and small percussion ensembles. Students will learn the concepts of rhythm, texture, balance, blend, and rudiments as they develop their role as ensemble members. 9th-12th grade students are eligible for this course.

**PANTHER SINGERS I, II, III, IV****1 Credit--Grades 9-12**

PANTHER SINGERS is a Fine Arts class for students who have advanced musical and vocal training and skill. The class will promote skills in artistic competence, music appreciation, music sight-reading, and choral competition. Students will perform and compete in Choral Concert and Sight Reading Competition and be encouraged to participate in the UIL Solo Competition. Students must be able to perform with the choir in evening concerts and are expected to be passing in all classes.

**CHORALE I, II, III, IV****1 Credit—Grades 9-12****Prerequisites: Audition, Director's approval, and previous private instruction or choral/band experience.**

CHORALE is a Fine Arts choral class for students who have excelled in vocal training and skill. The class will promote skills in artistic competence, music appreciation, music sight-reading, and choral competition. Students will perform and compete in Choral Concert and Sight Reading Competition at the Varsity level and be encouraged to participate in the UIL Solo Competition. Students must be able to perform with the choir in evening concerts and are expected to be passing in all classes.

**AP Music Theory****1 Credit—Grade 12****Prerequisites: Completion of two years of high school instrumental or vocal classes or private instruction.**

The AP Music Theory course is designed to be the equivalent of the music theory course usually taken during the first year of college by all music majors. Students will attain a depth of understanding of fundamentals and a reasonable competence in analyzing music as well as writing music in the tradition of western music.

**PANTHER EDITION SHOW CHOIR-- I, II, III, IV****1 Credit--Grades 9-12****Prerequisites: Singing audition, dancing audition, sight-reading audition, Director's approval, previous private instruction or choral/band experience, good grades (from the previous year), and minimal to no discipline infractions. Students in this class must also enroll in MHS CHORALE.**

Panther Edition is a Fine Arts show choir that sings and dances. This ensemble has high standards musically and performs in the community at many public functions. Panther Edition represents MHS and each member is expected to adhere to high moral, behavioral, educational, and musical standards. Students will learn to develop essential elements of musicianship, choreography, and positive public relationships in the community. Students must maintain passing grades and be able to perform at various civic functions during the day and evening. Students in this class must pass all courses to remain in the class and to compete in show choir competitions. Students in this class must also enroll in MHS Choir IV.

**THEATRE****Theatre Arts I****1 Credit—Grades 9-12**

This class is an introduction to the HS theatre program. Class members will develop characterization through improvisation and theatre games. Students will explore areas of theatre including basic acting techniques, technical theatre, and the fundamentals of play production including a "project runway" costume creation, along with career options and cross-curricular learning that focus how the arts enhance all of our lives. Students will be prepared to focus on acting or technical aspects of the art for the next level of theatre.

**Theatre Arts II****1 Credit—Grades 10-12****Prerequisite: Theatre I**

"Act well your part." Class members will develop characterization through improvisation, class plays, ensemble scenes and monologues. Class members become playwrights, puppeteers, and makeup artists, as well as directors and actors in their own music videos. It is a continuation of Theatre 1 stressing basic acting techniques and play production.

**Technical Theatre I****1 Credit—Grades 10-12**

"Lights come up." This is a continuation of the technical aspects of theatre introduced in TH 1. Members of this class explore all areas necessary to the success of a production of any kind by exploring plays and creating set, sound, and lighting plots. Class members will have hands on experiences with lighting and sound equipment. Students will develop qualities essential to stage crew members.

**Technical Theatre II****1 Credit—Grades 11-12****Prerequisites: Theatre Arts I and Technical Theatre I**

Class members will become proficient in set design, construction and utilizing lighting and sound equipment. Technicians will develop qualities essential to technical design, technical directing and stage management.



**Theatre Production I****1 Credit—Grades 11-12****Prerequisites: Theatre I and Theatre II or Technical Theatre**

Class members utilize and enhance knowledge and skills through performance and production as well as study methods and ideologies of theatre. Participation in departmental productions and competitions are requirements. Students will leave with audition-ready performance. Course can be done through independent study.

**Theatre Production II****1 Credit---Grades 12**

Class members participate in production and competitions as they focus on portfolios, skills, and resumes for subsequent opportunities in theatre. Students will leave class with resume, audition pieces, and knowledge of necessary audition materials. Course can be done through independent study.

**Other Courses for Fine Arts Credit****Floral Design****1 Credit – Grades 10-12****Pre-Requisites: Principles of Ag Food & Natural Resources Teacher Approval**

This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. This course will provide students the opportunity to analyze floral artistic styles and historical periods, respond to and analyze floral designs, and develop lifelong skills of making informed judgments evaluations. Lab fees may be required

**Dance****1 Credit—Grades 9-12**

Provides an overview of movement for the stage for students wishing to learn a wide variety of dance technique. Students will be exposed to basic technique in ballet, modern, jazz, and tap and develop anatomical awareness that is pervasive throughout their lives. Gaining movement skills and finding confidence and enjoyment through movement are a focus of this course with the intention that skills acquired are applied in a theatrical performance setting. No previous dance experience is necessary. This course may be used for Physical Education OR Fine Art credit.

**Dance II****1 Credit—Grades 10-12****Prerequisite: Dance I**

Provides an overview of movement for the stage for students wishing to learn a wide variety of dance technique. Students will be exposed to basic technique in ballet, modern, jazz, and tap and develop anatomical awareness that is pervasive throughout their lives. Gaining movement skills and finding confidence and enjoyment through movement are a focus of this course with the intention that skills acquired are applied in a theatrical performance setting. This course may be used for Physical Education OR Fine Art credit.

# Health Science

## Healthcare Diagnostics

**Level I** Principles of Health Science  
**Level II** Medical Terminology (MDCA1313/NURA1407)  
**Level III** Anatomy & Physiology  
 Health Science Theory/Lab (HPRS1105/MDCA1317)  
**Level IV** Medical Microbiology  
 Practicum in Health Science

## Healthcare Therapeutic

**Level I** Principles of Health Science  
**Level II** Medical Terminology (MDCA1313/NURA1407)  
**Level III** Anatomy & Physiology  
 Health Science Theory/Lab (HPRS1105/MDCA1317)  
**Level IV** Medical Microbiology  
 Practicum in Health Science

## Medical Therapy

**Level I** Principles of Health Science  
**Level II** Medical Terminology (MDCA1313/NURA1407)  
**Level III** Health Science Theory/Lab (HPRS1105/  
 MDCA1317)  
**Level IV** Practicum in Health Science

## Nursing

**Level I** Principles of Health Science  
**Level II** Medical Terminology (MDCA1313/  
 NURA1407)  
**Level III** Anatomy and Physiology  
 Practicum of Nursing I (NURA1401/NURA1160)  
**Level IV** Medical Microbiology  
 Practicum in Nursing II (HPRS1105-MDCA1317)

### Principles of Health Science

**1 Credit - Grades: 9-12**

The Principles of Health Science provides students an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the healthcare industry. This course includes an overview of career opportunities in the healthcare industry, patient rights, communication, safety, and ethical and legal issues.

### Medical Terminology (MDCA 1313/NURA1407)

**1 Credit - Grades 11-12 TVCC Admittance—TSI**

Medical Terminology provides the students a basic medical vocabulary used to communicate surgical procedures, medical specialties and diagnostic procedures.

### Health Science Theory & Clinical (HPRS1105/MDCA1317)

**2 Credits - Grades 11-12 \*Fee required\***

**Prerequisites:** Principles of Health Science, TVCC Admittance—TSI

#### Category IV

The Health Science Theory course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers including patients rights, blood borne pathogens, HIPPA communication, safety, and observations. Students will employ hands-on experiences for continued knowledge and skill development. Extended learning opportunities with partnering healthcare facilities are provided.

### Practicum in Health Science

**2 credits—Grade 12**

**Prerequisites:** Health Science Theory & Lab

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

### Practicum in Nursing I or II

Practicum I = NURA1401/NURA1160

Practicum II = HPRS1105/MDCA1419

**2 Credits - Grades 11-12 Fee required**

**Prerequisites:** Student data form required.

**Principles of Health Science and Medical Terminology, TVCC Admittance-TSI**

#### Category IV

Practicum in Nursing I provides students with the knowledge, skills, abilities, and certification necessary to provide basic care to residents of long-term care facilities and patients in the hospital setting. Topics include resident's rights, communication, safety, observation, and reporting and assisting residents in maintaining basic comfort and safety. The course includes detailed instruction, training, and non-paid work based experience in a long-term care facility. Practicum in Nursing II offers certifications in Medical Assistant and Patient Care Tech/ Assistant.

**Anatomy and Physiology****1 Credit—Grades 11-12****Prerequisites: Biology I with a grade of 85 or above & a 2nd science credit****Category III**

Anatomy and Physiology is an in-depth study of all major systems and the functions of these systems in humans. Also included are health related concepts, characteristics of cells, cell division, genetics, life cycles, and other life processes. Laboratory work is correlated with topics.

**Medical Microbiology****Prerequisites: Biology and Chemistry****1 Credit – Grade 12****Category IV**

The Medical Microbiology course is designed to explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases.

## Hospitality & Tourism – Culinary Arts

### Culinary Arts

**Level I Introduction to Culinary Arts**

**Level II Culinary Arts**

**Level III Practicum of Culinary Arts I**

**Level IV Practicum in Culinary Arts II**

**Introduction to Culinary Arts****1 Credit - Grades 9-12**

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

**Culinary Arts****1 Credit - Grades: 10 -12****Prerequisite: Introduction to Culinary Arts**

Culinary Arts provides the knowledge and skills necessary to prepare for a career in culinary arts. The course begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students will be encouraged to participate in extended learning experiences such as work based training experiences and career and technical student organizations. This class begins with safety and sanitation in the professional kitchen. Other major focuses will be fundamentals and principles of the art of cooking, science of baking, and includes management and production skills and techniques.

**Practicum in Culinary Arts I or II****2 or 3 Credits – Grades 11-12**

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

# Human Services

## Cosmetology and Personal Services

Level IV Introductions to Cosmetology (CSME1430/  
CSME1431) Cosmetology I/Lab (CSME1441/1443)

### Nail Technician/ Manicurist

Introduction to Cosmetology (CSME1430/CSME1431)  
Cosmetology I LAB (CSME1441/1443)

1 Credit – 12th Grade—Fee Required

**Prerequisite:** TVCC admittance, Lab Fee Required

The Nail Technology Certificate program, in partnership with TVCC, provides students the opportunity to learn the basic manipulation and theoretical skills necessary to become a licensed nail technician. Successful completion of 600 clock hours of instruction will provide students the theory and basic skills necessary to pass the State Board Examination for Manicure Certification and gain entry-level employment as a nail technician.

# Information Technology

## Information Technology Support and Services

Level I Principles of Information Technology

Level II Computer Maintenance/Lab (Online Hardware & Software: ITSC1325/ 1305)

Level III Practicum in Information Technology I (Online Fundamentals of Info Security & Info Tech Security: ITSY1300/ITSY1342)

Level IV Practicum of Information Technology II

### Principles of Information Tech

1 Credit Grades 9-12

In Principles of Information Technology, students will develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students will enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment.

## Networking Systems

Level I Principles of Information Technology

Level II Computer Maintenance/Lab (Online Hardware & Software: ITSC1325/1305)

Level III Networking/Lab (Online Fundamentals of Networking Technologies & Network +: IT-NW1325/1358)

Level IV Practicum of Information Technology I

### Web Technologies

1 Credit - Grades 10-12

**Prerequisites:** Principles of Info. Tech

In Web Technologies, students will learn to make informed decisions and apply the decisions to the field of IT. 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. Web tech offers Windows certified Web Design Certification

## Web Development

Level I Principles of Information Technology

Level II Web Technologies

Level III Computer Programing

Level IV Practicum of Information Technology I

### Computer Programming I

1 Credit – Grades 11 -12

**Prerequisite:** Principles of Info. Tech.

**Recommended Courses:** Algebra, Pre-Calculus or higher Math and/or Physics

In Computer Programming I, students will acquire knowledge of structured programming techniques and concepts appropriate to developing executable programs and creating appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics health, safety, and diversity in society and in the workplace as related to computer programming. Students will apply technical skills to address business applications of emerging technologies. Computer programming offers Microsoft Technology Associate (MTA) Introduction to programing certification.

**Practicum in Information Technology I or II****2 Credits – Grades 11 -12****Prerequisite: Web Tech, or Computer Programming I**

This course provides opportunities for students to participate in a learning experience that combines classroom instruction with non-paid business and industry employment experiences and supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. The Practicum is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in an unpaid arrangement and can include a variety of locations appropriate to the nature and level of experience. Microsoft Technology Associate (MTA) certification opportunities are available.

**Computer Maintenance****(Dual Credit ITSC 1325/1305- Online)****2 Credits – Grades 10th – 12th****Prerequisite: Principles of Information Tech. TVCC admittance—TSI**

Students acquire principles of computer maintenance, including electrical and electronic theory, computer hardware principles, and broad level components related to the installation, diagnosis, service, and repair of computer systems. Upon completion of the course, students can earn A+ Certification credentials.

**Networking & LAB****(Dual Credit ITNW 1358/1325 - Online)****2 Credits – Grades 11th – 12th****Prerequisite: Principles of Info. Tech, TVCC admittance**

Students develop knowledge of the concepts and skills related to telecommunications and data networking technologies and practices in order to apply them to personal or career development. Upon completion of the course, students can earn their Network+ Certification credentials.

**Practicum Info Technology & Security****(Dual Credit ITSY 1300/1342 - Online)****2 Credits – 12th****Prerequisite: Principles of Information Tech. TVCC admittance**

Students will learn, reinforce, apply, and transfer their knowledge, skills, and technologies as it relates to information security. Upon completion of the course, students can earn Security+ Certification credentials

## Languages Other Than English

Students are required to have 2 credits of the same language for the Foundation Academic Plan.

**Spanish I****1 Credit—Grades 9-11****Category IV**

Spanish I include basic objectives to help students attain proficiency in the four language skills of listening, speaking, reading and writing. This course provides a base knowledge to students of the contemporary Spanish speaking world and its culture.

**Advanced Spanish I****1 Credit—Grades 9-11****Category IV**

Spanish I include basic objectives to help students attain proficiency in the four language skills of listening, speaking, reading and writing. This course provides a base knowledge to students of the contemporary Spanish speaking world and its culture.

**Spanish II****1 Credit—Grades 9-12****Prerequisites: Completion of Spanish I****Category IV**

Spanish II continues to focus on the four language skills. Concepts from Spanish I are continued and expanded on, while new concepts are introduced. Conversational use of the language and guided composition are emphasized.

**Advanced Spanish II****1 Credit—Grades 9-12****Prerequisites: Completion of Spanish I with grade of 80 or higher.****Category III**

This Pre-Advanced Placement course is designed for college-bound students who desire a rigorous, advanced-level class. The course includes all objectives of Spanish II but extends higher-level critical thinking skills through an accelerated pace and a more challenging curriculum. Students completing Pre-AP Spanish II should be well prepared to enter Pre-AP Spanish III.

**Advanced Spanish III****1 Credit—Grades 10-12****Prerequisites:** Completion of Spanish II with grade of 80 or higher.**Category III**

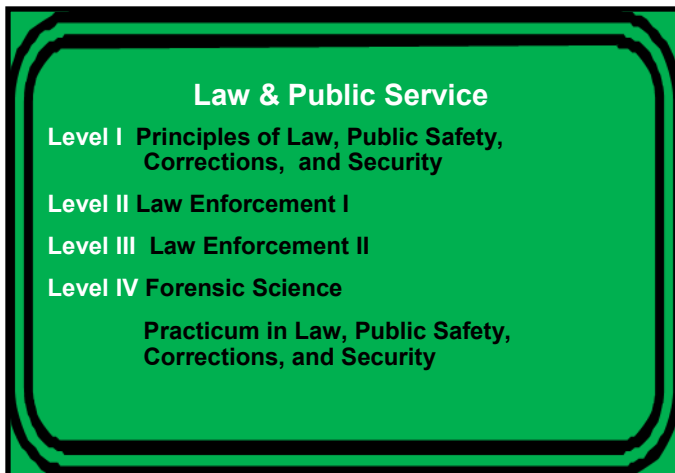
This Pre-Advanced Placement course is designed for college-bound students who desire a rigorous, advanced-level class. Pre-AP Spanish III focuses on mastery of the four language skills to reach fluency.

Students will begin to study Spanish literature and of the language skills to reach fluency. This Advanced Placement course is designed for college-bound students who desire a rigorous, advanced-level class. Students will use Spanish as the primary language for communication and to gain knowledge of the Spanish culture and history. Semester Projects are required. Students completing this course should be well-prepared to enter into a college level Spanish

**AP Spanish IV****1 Credit—Grades 11-12****Prerequisites:** Completion of Spanish III.**Category I**

Advanced Placement Spanish IV focuses on mastery of the language skills to reach fluency. This Advanced Placement course is designed for college-bound students who desire a rigorous, advanced-level class. Students will use Spanish as the primary language for communication and to gain knowledge of the Spanish culture and history. Semester Projects are required. Students completing this course should be well-prepared to enter into a college level Spanish classroom.

## Law & Public Service

**Principles of Law, Public Safety, Corrections and Security****1 Credit - Grades 9-12**

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

**Law Enforcement I****1 Credit – Grades 10-12****Prerequisite:** Principles of Law, Public Safety, Corrections and Security

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

**Law Enforcement II****1 Credit - Grades: 11 -12 Prerequisite: Law Enforcement I**

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

**Practicum in Law, Public Safety, Corrections and Security****2 Credits – Grade 12****Prerequisite: Law Enforcement I & II Recommended Course: Forensic Science**

This course provides opportunities for students to participate in a learning experience that combines classroom instruction with non-paid business and industry employment experiences and supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. The Practicum is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in an unpaid arrangement and can include a variety of locations appropriate to the nature and level of experience. Practicum in Law offers non-commissioned security officer Level II certification.

# Life Skills

Admission into Life Skills courses are based on evaluation and approval of an ARD committee and parent or guardian, with the recommendation of the teachers. IEP will be followed for all Life Skills course.

## LS Communications I-VIII

### 1 Credit—Grades 9-12

Communications is a course to develop appropriate social and personal communication, recognition of basic printed names and signs, writing name and simple sentences, and reading clocks and calendars. Employment situation: students will learn and apply basic knowledge of what is expected in the world of work.

## LS Reading I-VIII

### 1 Credit – Grades 9-12

Stresses the importance of reading for day-to-day living and independent career success. Vocabulary, decoding skills and comprehension are emphasized to assist the student in being independent in the community.

## LS Mathematics I-VIII

### 1 Credit—Grades 9-12

Applied Math teaches basic math skills: coin identification, counting change, purchasing skills, reading thermometers, telling time, using measuring equipment (cups, teaspoons, etc.) -and basic computation.

## Occupational Prep

### 1 Credit—Grades 9-12

**Prerequisites: ARD and parent or guardian, teacher recommendation**

Occupational Prep is a community-based program designed for students to learn how to work successfully. The students will be trained at different job sites, thus students will better understand the requirements of the job market. The students will learn money management, safety, and the ability to work with others.

## General Employability Skills (NExT Program 18+)

### 1 Credit – Grades 11

This course will provide instruction in general employability skills as well as the prerequisite skills for general employability. Employability skills are the skills and attitudes that allow employees to get along with their co-workers, make important work-related decisions and become strong members of the work team. Discovering job possibilities that link skills, abilities, interests, values, needs, and work environment preferences is an experiential learning process that takes place over time. This course is designed to guide students through learning these skills that can be transferable among a variety of jobs and careers.

## LS Personal Healthcare I-IV

### 1 Credit—Grades 9-12

Personal Health/Hygiene teaches appropriate table manners, health care, personal and home safety, proper use of medicine, and proper nutrition.

## LS Social Studies I-VIII

### 1 Credit—Grades 9-12

Social Studies addresses personal behavior, socialization, family life, transportation, money management, shopping, geography, maps, community involvement, and basic government.

## LS Science I-VIII

### 1 Credit—Grades 9-12

Science teaches practical skills related to daily living. This includes food preparation, clothing care, housekeeping, calendars and schedules, gardening, and needs of domestic animals.

## LS Vocational I-VIII

### 1 Credit—Grades 9-12

Vocational covers career awareness, work behavior and job procurement. Job skills will be developed in the areas of food service, basic tool use, horticulture, housekeeping, janitorial, and clerical.

## School to Work Connection

### 1 credit— Grade 12

The Student to Industry Connection course provides students with the opportunity to develop professional relationships with experienced individuals within the student's chosen program of study and to demonstrate necessary skills for online virtual work place. Students will learn acceptable virtual etiquette and professionalism for a teleworking environment. The central focus of this course is to prepare students to be 21st century career ready through interaction with a seasoned workplace mentor. The course may include a work-based learned component. Instruction will support students with marketable skills attainment. The course is recommended for students 16 years of age and older.

# Mathematics

The graduation requirement for Math are as follows: Algebra I, Geometry, Algebra II, and one additional Math course.

## Algebra I

**1 Credit – Grade 9 STAAR (EOC)**

### Category IV

Algebra I is the first course required for students participating in the regular high school math program. This is a comprehensive course beginning with the real numbers and Algebraic expressions, followed by solving linear equations and inequalities in one variable; polynomials and factoring, rational expressions; linear equations in two variables; relations and functions; systems of equations; radicals; quadratic equations, and probability.

## Geometry

**1 Credit - Grade 9-10 STAAR (EOC) Prerequisite: Algebra I**

### Category IV

Geometry is the study of the basic concepts of plane and space geometry, including the properties of polygons, perpendicular and parallel lines, area and volume, constructions, circles, coordinate geometry, and right triangles. A rigorous curriculum will incorporate the TEKS in preparation for the State assessments.

## Advanced Geometry

**1 Credit - Grade 9**

**Prerequisite: MSI procedural identification**

### Category II

Advanced Geometry exceeds the regular course in that it is a more comprehensive study of the concepts of the strategies in problem solving. Students will write formal proofs using theorems, postulates and definitions and will participate in the development of theorems. Beyond parallelism, congruent triangles, and circles, honors geometry delves into the origin and construction of figures and their relationship to each other. It covers coordinate geometry, trigonometric ratios, and transformational geometry. In this course, students will learn to use the calculator in graphing, trigonometric ratios, as well as roots and radical calculations. All MSI courses are designed to promote higher-level thinking skills, vocabulary expansions, and a transfer of knowledge for a successful progression into the AP program.

## Mathematical Models with Applications

**1 Credit – Grades 10-12**

**Prerequisites: Algebra I, Geometry Students not meeting the passing standards for the Algebra 1 EOC math exam are required to enroll in this course.**

### Category IV

Mathematical Models offers students a richer experience than traditional developmental mathematical courses. Mathematical Models is a true modeling course, engaging an interesting format by drawing on real life situations and applications. Students will explore relevant and newsworthy issues like drug testing in the Olympics, and resolving the fate of soldiers who are missing in action. This course actively demonstrates to students that mathematics is the most useful subject they will learn. Students use mathematical models from algebra, geometry, probability, and statistics and connections among these to solve problems from a wide variety of advanced applications in both mathematical and non-mathematical situations. Placement in this course is by committee.

## Algebra II

**1 Credit – Grades 10-12**

**Prerequisites: Algebra I**

### Category IV

Algebra II is required for students in the regular high school math program. It is a comprehensive course reviewing the fundamental Algebra skills and concepts, continuing with linear equations and inequalities; functions and graphs; systems of equations and inequalities; matrices; polynomials; rational expressions; irrational and complex numbers; quadratics; conic sections; exponential and logarithmic functions; basic trigonometry; sequences and series; probability and statistics. This course should be effective in preparing students for taking a basic College Algebra course and for preparing students for ACT, SAT, THEA, and other standardized exams.

## Advanced Algebra II

**1 Credit – Grades 10**

**Prerequisites: MSI procedural identification**

### Category III

Advanced Algebra II includes all objectives of Algebra II but extends higher level critical thinking skills through an accelerated pace and a more difficult, expanded curriculum. The student will be made aware of mathematical history and application, as well as career opportunities. Students completing Advanced Algebra II should be well-prepared to enter Pre-AP Pre-Calculus or AP Statistics. All MSI courses are designed to promote higher-level thinking skills, vocabulary expansions, and a transfer of knowledge for a successful progression into the AP program.



**Pre-Calculus****1 Credit – Grade 12****Prerequisites:** passed Algebra II, Geometry**Category IV**

Designed for students who have completed Algebra II. Students will extend their level of mathematical skills and reasoning beyond the topics covered in Algebra II. Some topics include functions (linear, quadratic, polynomial, exponential, logarithmic, etc.), and basic trigonometry. This course should be effective in preparing students for taking a basic College Algebra course and preparing students for ACT, SAT, THEA and other standardized exams.

**Dual Credit Math 2413, Calculus 1****1 Credit – Grade 12****Prerequisites:** Pre-AP Pre-Calculus, TVCC admittance**Category I**

The beginning of the integrated study of calculus and analytic geometry, topics normally covered include limits, continuity, differentiation and integration of algebraic and trigonometric functions, and applications of integration.

**Dual Credit Math 2414, Calculus II****1 Credit – Grade 12****Prerequisites:** Dual Credit Math 2413, Calculus II, TVCC admittance**Category I**

A continuation of Math 2413. Topics normally covered include differentiation and integration of logarithmic, exponential and hyperbolic functions, methods of integration, improper integrals, and infinite series.

**Dual Credit Math 1314, College Algebra****1 Credit – Grade 12****Prerequisites:** TVCC admittance**Category I**

Topics covered in this course may include a rapid review of exponents and radicals and rational expressions, linear and quadratic equations, complex numbers, graphing lines and curves, higher degree equations, logarithmic and exponential functions, matrices and systems of equations, etc

**AP Calculus AB****1 Credit – Grade 12****Prerequisites:** 85 or above in Pre-AP Pre-Calculus.**Category I**

Recommended for students interested in pursuing a career in Accounting, Anthropology, Architecture, Astronomy, Chemistry, Computer Science, Dentistry, Economics, Engineering, Environmental Science, Geology, Marketing, Mathematics, Medicine, Neuroscience, Nursing, Physics, or Statistics. This course is designed to prepare college-bound students for Calculus I in college. It will acquaint students with the fundamental concepts of differential calculus. The students will study limits, continuity, the derivative, differentials, applications of the derivative, indefinite and definite integrals, area under a curve, and volume in Algebra I

**Statistics & Business Decision Making****1 Credit – Grade 12****Prerequisites:** Algebra II**Category IV**

Statistics and Business Decision Making is an introduction to statistics and the application of statistics to business decision making. Students will use statistics to make business decisions.

**College Preparatory Course: Transition to College Mathematics****1 Credit---12th Grade****Category IV**

Topics in this two-semester course include real numbers, symbolic representation, graphing linear equations, basic Geometry, rational expressions and equations, and functions. Calculator use is not allowed during Module 1, calculator use is not allowed on the course final examination, and should be limited in use during Modules 2-6. Cumulative review should occur throughout the course. Successful completion of the course and the final examination will result in student readiness for entry-level college mathematics.

**Accounting II (ACNT 1303/1313)****1 Credits – Grades 11-12****Prerequisite:** Accounting I**TVCC Admittance—TSI**

In Accounting II, students will continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in various managerial, financial, and operational accounting activities. Students will formulate, interpret and communicate financial information for use in management decision making. Students will use equations, graphical representations, accounting tools, spreadsheet software and accounting systems in real-world situations to maintain, monitor, control and plan the use of financial resources.

# Miscellaneous Electives

Elective credits are required for graduation. These credits may be earned from CTE courses as well as the general elective courses listed below.

## Debate I, II, III, IV

### 1 Credit—Grades 9-12

Debate students will study argumentation techniques, research current event issues, and speaking techniques. Cross examination debate as well as extemporaneous speaking formats will be presented. Students will be expected to attend weekend tournaments. Participation in tournaments is required.

## Journalism

### 1 Credit-Grades 9-12

Students enrolled in Journalism will learn basic journalistic and storytelling skills including writing, history, ethics, copyright law, design, and editing for both print and broadcast news. Students will be expected to research self-selected topics and write news, feature, and opinion stories, learn publication design, and basic camera and video editing skills. Students will analyze both print, TV, and online news, along with other forms of media and technology to enhance their communication skills. Students will learn digital publication design using Adobe InDesign and will use Adobe Photoshop, Illustrator, and Premiere Pro for photo/video editing and graphic design.

## Advanced Journalism Yearbook I, II, III, IV

### 1 Credit- Grades 9-12

#### Prerequisites: Application, instructor approval

Yearbook is included in the framework of this course. Students will produce the Panther Yearbook. Students will gain skills in the following areas: page design, publishing techniques, copy writing, editing and photography while producing a creative, innovative yearbook which records school memories.

## Photojournalism

### 1/2 Credit-Grades 9-12

Photojournalism students will explore the art of communication through photography and videography. Students will learn basic camera and editing skills and learn how to “tell the story” through the lens of a camera. Students will shoot using a variety of still and video cameras including Canon DSLRs, high definition camcorders, and Flip video cameras. Student will learn to edit in with Adobe Photoshop and Premiere Pro. There is a strong emphasis on preparing students for joining the newspaper and/or broadcasting programs.

## Academic Support- Advanced

### 1 Credit- Grades 9-12

Academic Support provides a program of support so that students can successfully meet the challenges of work in high school, and beyond. This course is designed for students that are taking two or more honors, AP, or dual credit classes. Academic Support is taken as a scheduled class which meets during the academic day. Students work independently on note taking, textbook reading, test preparation, problem solving, and individual class assignments.

## Academic Support

### 1 Credit- Grades 9-12

#### Prerequisite: SPED/504 Committee recommendation

The purpose of Academic Support is to provide support for individual learning needs and learning strategies, as well as supporting core subjects. This course will supplement instruction and provide support for students' specific areas of need, provide strategies for study skills and organizational skills, and monitor student progress.

## Psychology

### 1/2 Credit-Grades 11-12

Students will consider the development of the individual and the personality. The study of psychology is based on an historical framework and relies on effective collection and analysis of data. Students study topics such as theories human development, personality, motivation, and learning.

## Sociology

### 1/2 Credit - Grades 11-12

This course includes the systematic, scientific study of human behavior, social groups, and society. Using case studies, current events, research and primary documents, students will study components of culture, history of socializing process, deviation and social control, and social movements.

## AP Psychology

### 1 Credit- Grades 11-12

#### Category I

Recommended for students interested in pursuing a career in Advertising, Business, Communication, Economics, Education, Family and Consumer Sciences, History, Human Development, Human Resources, Information Technology, Journalism, Law, Nursing, Political Science and Government, Psychology, Public Health, Religion, Social Work, Sociology, Statistics, or Theatre Arts. The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior 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.

**Read 180****1/2-1 Credits Per Year**

Reading offers students instruction in word recognition and comprehension strategies and vocabulary to ensure that high school students have an opportunity to read with competence, confidence and understanding. Students are given opportunities to locate information in varied sources, to read critically, to evaluate sources, and to draw supportable conclusions. Students learn how various texts are organized and how authors choose language for effect. All of these strategies are applied in texts that cross the subject fields.

**Student Leadership****1 Credit- Grades 9-12**

This course provides opportunities to study, to practice, and to develop group and individual leadership and organizational skills in decision-making, problem-solving, communication, leadership, human relations, and civic responsibility. Students enrolled in the course will apply these skills in dealing with peers, school administration, and the community. This is a project based class.

**Academic Decathlon****1 Credit- Grades 9-12****Prerequisite: Instructor approval**

The Academic Decathlon aims to promote learning and academic excellence among students of varying achievement levels by developing and providing academic competitions through a rigorous, in-depth, multi-disciplinary curriculum. . The Academic Decathlon is composed of ten core areas including art, economics, literature, mathematics, music, science, social science, prepared and impromptu speech, interview, and essay. The competition culminates in a Super Quiz. The team consists of members from all grade average categories. Freshman and sophomores who do not make the Decathlon team may compete in the Octathlon.

**AP Seminar Course****1 credit- Grade 10****Prerequisite: None**

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Students practice reading and analyzing articles, research studies, and foundational literary and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in research based written essays, and design and deliver oral and visual presentations, individually and as part of a team. Students will complete various assessments throughout the year to earn an Advanced Placement Exam score. Students who earn scores of 3 or higher in AP Seminar and AP Research will receive the AP Seminar and Research Certificate© signifying their attainment of college-level academic and research skills. In addition, students who earn a 3 or higher in four additional AP Courses will receive the AP Capstone Diploma©. Note: This course cannot be dropped until semester. For further information, please consult the College Board Website: <https://lp.collegeboard.org/ap-capstone>

**AP Research Course****1 Credit--Grade 11****Prerequisite: AP Seminar**

AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Students design, plan, and conduct a year-long research based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of approximately 4000–5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense. Students will complete various performance or exhibition of product where they receive the AP Seminar and Research Certificate© signifying their attainment of college-level academic and research skills. In addition, students who earn a 3 or higher in four additional AP Courses will receive the AP Capstone Diploma©.

**Student Aides****1 Credit—Grade 12 (Local Credit)****Prerequisites: Approval from teachers, administrators or school personnel.**

Student aides assist the secretaries, attendance clerk, registrar, librarians, counselors, assistant principals and principal. The duties involve filing, answering phones, delivering messages and other office-related activities.

**Dollars and Sense****½ Credit—Grade 9-12**

Using Dave Ramsey's financial literacy curriculum, dollars and Sense focuses on consumer practices and responsibilities, money-management processes, including budgeting, decision-making skills and the impact of technology.

**Lifetime Nutrition and Wellness****½ Credit - Grades 9-12**

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

**Professional Communication****1/2 Credit– Grade 9 – 12**

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

# Science

The graduation requirements for Science can be met through the following sequence: Biology, Chemistry, Physics, or an additional science, and a fourth year science course.

## Integrated Physics and Chemistry (IPC)

**1 Credit—Grade 10-12**

### Category IV

Integrated Physics and Chemistry gives students an understanding of physical, chemical and natural laws of Science. The scope includes principles of measurement, force and motion, chemistry of matter and forms of energy. This course may not be taken after passing chemistry.

## Biology

**1 Credit—Grade 9-12 STAAR (EOC)**

### Category IV

Biology I is a science devoted to living organisms. Investigations are directed toward an understanding of the working of biological systems at all levels of organization. The course is ideal for the students who plan to study Chemistry and Physics.

## Advanced Biology

**1 Credit—Grade 9-11**

### Category III

Pre-AP Biology is a course designed for college-bound students who plan to take AP Biology as a science elective. This course provides more in-depth coverage of three main topics: Molecule and Cells, Heredity, and Organisms and Populations. The main goals are to provide a conceptual framework for modern biology and to help students gain an appreciation of science as a process. Students will be asked to develop an understanding of concepts rather than simply memorizing terms, to recognize themes that integrate the major topics of biology and to apply biological knowledge and critical thinking to environmental and social concerns. All Pre-AP courses are designed to promote higher-level thinking skills, vocabulary expansions, and a transfer of knowledge for a successful progression into the AP program.

## Biology 1406/1407

**2 Credits —Grade 11-12**

### Prerequisites: TVCC Admittance (TSI)

Fundamental principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation and classification. Concepts and cytology, reproduction, genetics and scientific reasoning are included. A laboratory component is included that gives practical experience to material covered in class.

## Advanced Chemistry

**1 Credit—Grades 9**

### Prerequisites: Advanced Biology

### Category II

Chemistry is the study of matter including the physical and chemical changes matter undergoes. Also included are bonding of atoms, energy involved in bonding, chemical formulas, chemical equations, organic chemistry, and nuclear chemistry. Laboratory work is correlated with topics. All MSI courses are designed to promote higher-level thinking skills, vocabulary expansions, and a transfer of knowledge for a successful progression into the AP program.

## Chemistry

**1 Credit—Grades 10-12**

### Prerequisites: Algebra I and Biology

### Category IV

Chemistry is the study of matter including the physical changes that matter undergoes. Also included are bonding of atoms, energy involved in bonding, chemical formulas, chemical equations, organic chemistry, and nuclear chemistry. Laboratory work is correlated with topics.

## Physics

**1 Credit—Grades 11-12**

### Prerequisites: two previous science courses and completion of Algebra II or concurrent enrollment in Algebra II

### Category IV

In Physics students study various forms of energy and how to measure different forms of energy. The different forms of energy to be studied include forces, motion, work, mechanics and heat. Other topics include sound, light, electricity and magnetism. How the principles of physics are used in practical applications will also be studied.

## Advanced Physics

**1 Credit—Grades 11-12**

### Prerequisites: Advanced Biology, Advanced Chemistry and completion of or concurrent enrollment in Pre-Calculus.

### Category III

Physics is the study of matter and energy emphasizing energy. Topics covered include mechanics, heat, sound, light, electricity, magnetism and structure of the atom. Laboratory work will accompany topics covered in this course. All Pre-AP courses are designed to promote higher-level thinking skills, vocabulary expansions, and a transfer of knowledge for a successful progression into the AP program.

**Environmental Systems****1 Credit—Grades 10-12****Prerequisites: One year of science****Category IV**

Science is a way of learning about the natural world. Students in Environmental Science will study a variety of topics that include: biotic and abiotic factors in habitats; ecosystems and biomes; sources and flow of energy through an environmental system. Laboratory work is correlated with topics.

**Aquatic Science****1 Credit—Grades 11-12****Category IV**

Students study the interactions of biotic and abiotic components in aquatic environments, including impacts on aquatic systems. Investigations and field work in this course may emphasize freshwater or marine aspects of aquatic science depending primarily upon the natural resources available for study near the school. Students will acquire knowledge about a variety of aquatic systems, conduct investigations and observations of aquatic environments, work collaboratively with peers, and develop critical-thinking and problem-solving skills.

**Earth and Space Science****1 Credit—Grades 11-12****Category IV**

Earth and Space Science is a course that builds on prior scientific knowledge and skills to provide high school students an understanding of the Earth Systems and cycles in space and time. The Earth and Space Science course will apply and integrate the science concepts and principles learned in previous grades; examine authentic situations that extend beyond the boundaries of the classroom; engage in acquiring, processing, and analyzing scientific data; build upon reading, writing, research, and quantitative skills and serve as a culminating science course in a student's high school experience.

**Forensic Science****Credit: 1 - Grade: 11-12****Prerequisites: Biology, Chemistry, and Law Enforcement I****Category IV**

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

**Anatomy and Physiology****1 Credit—Grades 11-12****Prerequisites: Biology I with a grade of 85 or above & a 2nd science credit****Category III**

Anatomy and Physiology is an in-depth study of all major systems and the functions of these systems in humans. Also included are health related concepts, characteristics of cells, cell division, genetics, life cycles, and other life processes. Laboratory work is correlated with topics.

**AP Chemistry****1 Credit—Grades 11-12****Prerequisites: Pre-AP Chemistry, (1) 80 or above in Advanced Chemistry, (2) 85 or above in chemistry. It is recommended that students complete Algebra II and a first year course in chemistry.****Category I**

*Recommended for:* students interested in pursuing a career in Agriculture, Animal Sciences, Chemical Engineering, Chemistry, Environmental Science, Genetics, Geology, Natural Resource Conservation, Nutrition Science, Pharmaceuticals, Medicine, Nursing, Wildlife and Park Management, Zoology.

The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. Students will attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. The course, as a component of the AP program, will contribute to the development of the students' abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic. Quantitative differences appear from the normal high school chemistry class in the number of topics treated, the time spent on the course by students, and the nature and variety of experiments done in the laboratory.

**AP Biology****1 Credit – Grades 11-12 or MSI Grade 10****Prerequisites: 80 or above in Pre-AP Biology, 85 or above in Biology****Category I**

*Recommended for:* students interested in pursuing a career in Agricultural, Animal Science, Anthropology, Athletic Training, Biomedical Engineering, Botany, Chemistry, Dentistry, Ecology, Environmental Science, General Science, Health Science, Horticulture, Forensics, Geology, Genetics, Geology, Marine Sciences, Meteorology, Neuroscience, Nursing, Physical Therapy, Pharmaceuticals, Psychology, Public Health, Statistics, Rehabilitation, Veterinary Medicine, or Wildlife Management, or Zoology. AP Biology is designed to be the equivalent of the general biology course usually taken during the first college year. The course, as a component of the AP program will contribute to the development of the students' abilities to think clearly and express their ideas, orally, and in writing, with clarity and logic. Quantitative differences appear from the normal high school biology class in the number of topics treated, the time spent on the course by students and the nature and variety of experiments done in the laboratory.

**AP Physics I****1 Credit—Grades 11-12****Prerequisites:** Geometry or concurrent enrollment in Algebra II or an equivalent course.**Category I**

*Recommended for:* students interested in pursuing a career in Aerospace Engineering, Architecture, Astronomy, Bio-medical Engineering, Chemical Engineering, Chemistry, Civil Engineering, Computer Science, Electrical Engineering, Geology, Industrial Engineering, Mathematics, Mechanical Engineering, Nuclear Engineering, or Physics.

This course is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits.

**AP Environmental Science****1 Credit – Grades 11-12****Prerequisites:** Biology and Chemistry**Category I**

The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science. The goal of the AP Environmental Science course 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 the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them.

**Medical Microbiology****Prerequisites:** Biology and Chemistry**1 Credit – Grade 12****Category IV**

The Medical Microbiology course is designed to explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases.

**Animal Science****1 Credit - Grades 11-12****Prerequisites:** \*SAEP Required\* Biology and Chemistry or IPC and Chemistry; Algebra I & Geometry; and either Small Animal Management, Equine Science or Live-stock Production**Category IV**

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

**Plant and Soil Science****1 Credit - Grades 11-12****Prerequisites:** Biology, IPC, Chemistry or Physics and one course from Ag, Food & Natural Resources preferably from the Horticulture/Floral Design Career Cluster**Category IV**

Advanced Plant and Soil Science provides a way of learning about the natural world. Students learn how plant and soil science has influenced a vast body of knowledge, applications are yet to be discovered, and that plant and soil science is the basis for many other science fields. 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.

**Engineering Science (PLTW2)****1 Credit – Grades 10-12****Prerequisite:** PLTWI, Algebra I & Biology, IPC & Chemistry, or Physics**Category IV**

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.

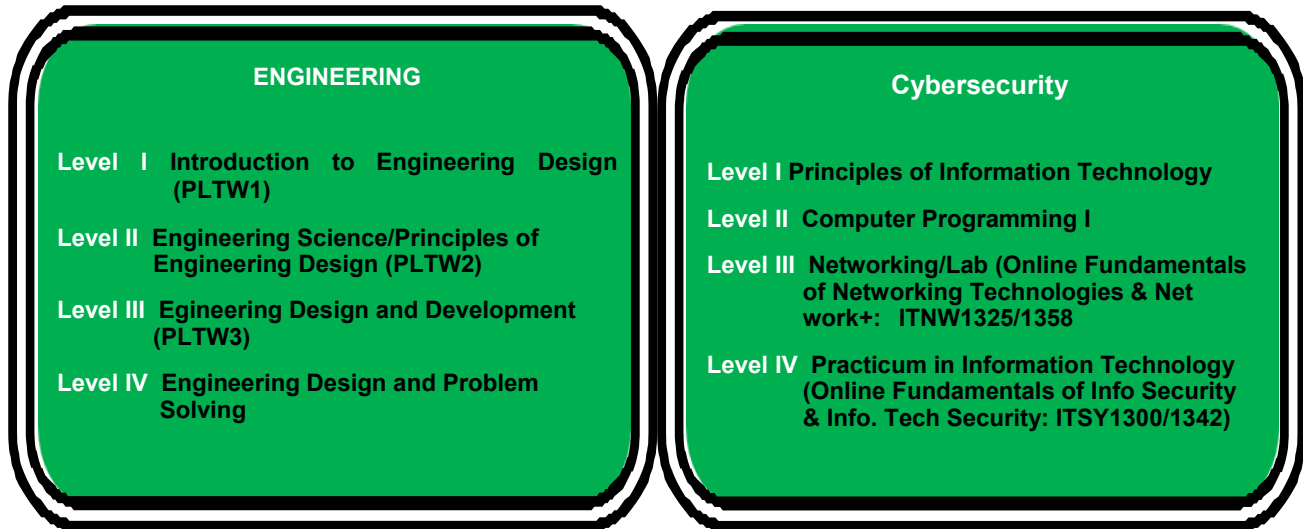
**Engineering Design & Problem Solving****1 Credit – Grade 12****Prerequisites:** PLTW3**Category IV**

Engineering design is the creative process of solving problems by identifying needs and then devising solutions. This solution may be a product, technique, structure, process, or many other things depending on the problem. Science aims to understand the natural world, while engineering seeks to shape this world to meet human needs and wants. Engineering design takes into consideration limiting factors or "design under constraint." Various engineering disciplines address a broad spectrum of design problems using specific concepts from the sciences and mathematics to derive a solution. The design process and problem solving are inherent to all engineering disciplines.

Engineering Design and Problem Solving reinforces and integrates skills learned in previous mathematics and science courses. This course emphasizes solving problems, moving from well-defined toward more open ended, with real-world application. Students apply critical-thinking skills to justify a solution from multiple design options. Additionally, the course promotes interest in and understanding of career opportunities in engineering.

This course is intended to stimulate students' ingenuity, intellectual talents, and practical skills in devising solutions to engineering design problems. Students use the engineering design process cycle to investigate, design, plan, create, and evaluate solutions. At the same time, this course fosters awareness of the social and ethical implications of technological development.

# Science, Technology, Engineering & Mathematics



## Introduction to Engineering Design (PLTW1) 1 Credit – Grades 9th – 12th

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/Principles of Engineering (PLTW 2)

1 Credit—Grades 10-12

**Prerequisites:** PLTWI, Algebra I, and Biology, IPC and Chemistry or Physics

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.

## Engineering Design & Development (PLTW 3)

1 Credit – Grade 11-12

**Prerequisites:** PLTW2

Engineering design is the creative process of solving problems by identifying needs and then devising solutions. This solution may be a product, technique, structure, process, or many other things depending on the problem. Science aims to understand the natural world, while engineering seeks to shape this world to meet human needs and wants. Engineering design takes into consideration limiting factors or "design under constraint." Various engineering disciplines address a broad spectrum of design problems using specific concepts from the sciences and mathematics to derive a solution. The design process and problem solving are inherent to all engineering disciplines. Engineering Design and Development reinforces and integrates skills learned in previous mathematics and science courses. This course emphasizes solving problems, moving from well-defined toward more open ended, with real-world application. Students apply critical-thinking skills to justify a solution from multiple design options. Additionally, the course promotes interest in and understanding of career opportunities in engineering.

**Engineering Design & Problem Solving (PLTW4)****1 Credit — Grade 12****Prerequisites: PLTW3**

Engineering design is the creative process of solving problems by identifying needs and then devising solutions. This solution may be a product, technique, structure, process, or many other things depending on the problem. Science aims to understand the natural world, while engineering seeks to shape this world to meet human needs and wants.

Engineering design takes into consideration limiting factors or "design under constraint." Various engineering disciplines address a broad spectrum of design problems using specific concepts from the sciences and mathematics to derive a solution. The design process and problem solving are inherent to all engineering disciplines. Engineering Design and Problem Solving reinforces and integrates skills learned in previous mathematics and science courses. This course emphasizes solving problems, moving from well-defined toward more open ended, with real-world application. Students apply critical-thinking skills to justify a solution from multiple design options. Additionally, the course promotes interest in and understanding of career opportunities in engineering. This course is intended to stimulate students' ingenuity, intellectual talents, and practical skills in devising solutions to engineering design problems. Students use the engineering design process cycle to investigate, design, plan, create, and evaluate solutions. At the same time, this course fosters awareness of the social and ethical implications of technological development.

**Principles of Information Tech****1 Credit Grades 9-12**

In Principles of Information Technology, students will develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students will enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment.

**Computer Programming I****1 Credit – Grades 10-12****Prerequisite: Principles of Info. Tech.****Recommended Courses: Algebra, Pre-Calculus or higher Math and/or Physics**

In Computer Programming I, students will acquire knowledge of structured programming techniques and concepts appropriate to developing executable programs and creating appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics health, safety, and diversity in society and in the workplace as related to computer programming. Students will apply technical skills to address business applications of emerging technologies. Computer programming officer Microsoft Technology Associate (MTA) Introduction to programming certification.

**Networking & LAB****(Dual Credit ITNW 1358/1325 - Online)****1 Credits– Grades 11th – 12th****Prerequisite: Principles of Info. Tech. TVCC admittance—TSI**

Students develop knowledge of the concepts and skills related to telecommunications and data networking technologies and practices in order to apply them to personal or career development. Upon completion of the course, students can earn their Network+ Certification credentials.

**Practicum of Info Technology & Security****(Dual Credit ITSY 1300/1342 - Online)****2 Credits– 12th****Prerequisite: Principles of Info. Tech. TVCC Admittance-TSI**

Students will learn, reinforce, apply, and transfer their knowledge, skills, and technologies as it relates to information security. Upon completion of the course, students can earn Security + Certification credentials

## Social Studies

The graduation requirements for Social Studies can be met through the following sequence: World Geography, World History, US History

**World Geography****1 Credit—Grade 9****Category IV**

In World Geography Studies, students examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Students describe the influence of geography on events of the past and present. The course centers around the physical processes that shape patterns in the physical environment; the characteristics of major landforms, climates, and ecosystems and their interrelationships; the political, economic, and social processes that shape cultural patterns of regions; types and patterns of settlement; the distribution and movement of world population; relationships among people, places, and environments; and the concept of region.

**AP Human Geography****1 Credit – Grade 9****Category I**

The purpose of the AP course in Human Geography is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice.



**Advanced World Geography****1 Credit—Grade 9****Category III**

Pre-AP World Geography encompasses an in-depth examination of the five themes of geography along with a thorough discernment of physical geography. In addition, historical, cultural, economic, and political elements are examined to explain human living patterns. Students learn to compare and contrast living patterns of the United States with those of other countries and cultures, gain insight to technological advancements and their influence on all living organisms on a global scale. All Pre-AP courses are designed to promote higher-level thinking skills, vocabulary expansions, and a transfer of knowledge for a successful progression into the AP program.

**World History****1 Credit—Grade 10****Category IV**

World History Studies offers students an overview of the entire history of humankind. Emphasis is on the study of significant people, events, and issues from the earliest times to the present; to analyze important events and issues in civilizations around the world, evaluate the causes and effects of political and economic imperialism and of major political revolutions since the 17th century, examine the impact of geographic factors on major historic events and identify the historic origins of contemporary economic systems and analyze the process by which modern governments evolved. Students trace the development of important legal and political concepts, examine the history and impact of major religious and philosophical traditions, analyze the connections between major developments in science and technology and the growth of industrial economies.

**Advanced World History****1 Credit—Grade 10****Category III**

The purpose of the Pre-AP World History course is to develop greater understanding of the evolution of global processes and contacts in different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in global frameworks and their causes and consequences, as well as comparisons among major societies. It emphasizes relevant factual knowledge, leading interpretive issues, and skills in analyzing types of historical evidence. Periodization, explicitly discussed, forms an organizing principle to address change and continuity throughout the course. Specific themes provide further organization to the course, along with consistent attention to contacts among societies that form the core of world history as a field of study. All Pre-AP courses are designed to promote higher-level thinking skills, vocabulary expansions, and a transfer of knowledge for a successful progression into the AP program.

**AP World History****1 Credit—Grade 10****Prerequisite: AP Human Geography****Category I**

The AP World History course is structured around the investigation of five course themes and 19 key concepts in six different chronological periods, from approximately 8000 B.C.E. to the present. This course covers the following themes: Interaction between Humans and the Environment, Development and Interaction of Cultures, State Building, Expansion, and Conflict. Creation, Expansion, and Interaction of Economic Systems, and the Development and Transformation of Social Structures.

**United States History****1 Credit—Grade 11 STAAR (EOC)****Category IV**

In this course, which is the second part of a two-year study of U.S. history that begins in Grade 8, students study the history of the United States since Reconstruction to the present. Historical content focuses on the political, economic, and social events and issues related to industrialization and urbanization, major wars, domestic and foreign policies of the Cold War and post-Cold War eras, and reform movements including civil rights. Students examine the impacts of geographic factors on major events and analyze causes and effects of the Great Depression, constitutional issues on American society, evaluate the dynamic relationship of the three branches of the federal government, and analyze efforts to expand the democratic process, technological innovations on the American labor movement. They will describe the relationship between the arts and the times during which they were created and use critical-thinking skills to explain and apply different methods that historians use to interpret the past, including points of view and historical context.

**AP United States History****1 Credit—Grade 11-12****Category I**

*Recommended* for students interested in pursuing a career in American Studies, Art History/Criticism/Conservation, Comparative Literature, Economics, Ethnic Studies, Geography, History, International Relations, Mass Communication, Political Science and Law, Religious Studies, Sociology, or Law.

The AP U.S. History course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. history from Pre-Columbian Societies to present. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials—their relevance to a given interpretive problem, reliability, and importance—and to weigh the evidence and interpretations presented in historical scholarship. An AP U.S. History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format.

**Dual Credit History 1301, United States History to 1877****1/2 Credit – Grade 11****Prerequisites:** TVCC admittance—TSI**Category I**

A survey is made of the American colonies, their struggle for independence, the development of a political structure and the formative years, the westward movement, the growth of sectionalism, and the Civil War. The social, economic, and political trends are shown.

**Dual Credit History 1302, United States History from 1877****1/2 Credit – Grade 11****Prerequisites:** TVCC admittance**Category I**

This is a continuation of the history course surveying American growth, world conflicts, and the emergence of America as a world power. The social, economic, and political trends are shown.

**United States Government****1/2 Credit—Grade 12****Prerequisites:** US History, World Geography and World History**Category IV**

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

**Economics****1/2 Credit—Grade 12****Prerequisites:** US History, W. History and World Geography**Category IV**

Economics with Emphasis on the Free Enterprise System and Its Benefits is the culmination of the economic content and concepts studied from Kindergarten through required secondary courses. The focus is on the basic principles concerning production, consumption, and distribution of goods and services in the United States and a comparison with those in other countries around the world. Students examine the rights and responsibilities of consumers and businesses. Students analyze the interaction of supply, demand, and price and study the role of financial institutions in a free enterprise system. Types of business ownership and market structures are discussed, as are basic concepts of consumer economics. The impact of a variety of factors including geography, the federal government, economic ideas from important philosophers and historic documents, societal values, and scientific discoveries and technological innovations on the national economy and economic policy is an integral part of the course. Students apply critical-thinking skills to create economic models and to evaluate economic-activity patterns. Economics with Emphasis on the Free Enterprise System and Its Benefits builds upon the foundation in citizenship; economics; geography; government; history; culture; social studies skills; and science, technology, and society laid by the social studies essential knowledge and skills in Kindergarten-Grade 12. The content enables students to understand the importance of patriotism, function in a free enterprise society, and appreciate the basic democratic values of our state and nation as referenced in the Texas Education Code, §28.002(h).

**AP United States Government****1/2 Credit—Grade 12****Category I**

*Recommended for:* students interested in pursuing careers in American Studies, Broadcast Journalism, Economics, Environmental Studies, Ethnic Studies, Geography, History, International Relations, Labor and Industrial Relations, Natural Resources and Conservation, Paralegal Studies, Political Science and Government, Law, Public Administration, Social Work, or Sociology. The AP Government & Politics United States course provides an analytical perspective on government and politics in the United States. This course involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. political reality. While there is no single approach that an AP Government & Politics: United States course must follow, certain topics are generally covered in college courses. Topics include Constitutional Underpinnings of United States Government, Political Beliefs and Behaviors, Political Parties, Interest Groups, and Mass Media, Institutions of National Government: The Congress, the Presidency, the Bureaucracy, and the Federal Courts, Public Policy, Civil Rights and Civil Liberties. Upon successful completion of the course, the student should be able to earn college credit by taking the Government Advanced Placement Exam

**AP Macroeconomics****1/2 Credit—Grade 12****Category I**

The purpose of the AP Macroeconomics course is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. First, a foundation in basic economic concepts is developed. After the basics are covered, the course places particular emphasis on the study of national income and price-level determination, and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, international trade and international finance. It should be noted that the course promotes the understanding of aggregate economic activity; the utilization of resources within and across countries; and the critical evaluation of determinants of economic progress and economic decisions made by policy makers. Upon successful completion of the course, the student should be able to earn college credit by taking the Macroeconomics Advanced Placement Exam.

**Dual Credit Government 2305, American and Texas Constitutions****1/2 Credit—Grade 12****Prerequisites: TVCC admittance—TSI****Category I**

Study of the United States and Texas Constitutions, civil liberties, federalism, interest groups, public opinion, political parties, voting and elections (satisfies requirements for Tex-

**Dual Credit Government 2306, American and Texas Government****1/2 Credit – Grade 12****Prerequisites: TVCC admittance—TSI****Category I**

Emphasizes the executive, legislative and judicial branches; bureaucracy; economics and taxation; foreign policy and local government.

**Dual Credit Econ 2301, Principles of Macroeconomics****1/2 Credit – Grade 12****Prerequisites: TVCC admittance—TSI****Category I**

This course will include a study of economic problems such as inflation, unemployment, and economic stabilization by monetary and fiscal policy. Macroeconomic concepts of total spending, total output and income, money and banking, and the Keynesian and monetary approaches to national income analysis are discussed.

**Psychology****1/2 Credit-Grades 11-12**

Students will consider the development of the individual and the personality. The study of psychology is based on an historical framework and relies on effective collection and analysis of data. Students study topics such as theories human development, personality, motivation, and learning.

**Sociology****1/2 Credit - Grades 11-12**

This course includes the systematic, scientific study of human behavior, social groups, and society. Using case studies, current events, research and primary documents, students will study components of culture, history of socializing process, deviation and social control, and social movements.

**AP Psychology:****1 Credit - Grades 11-12****Category I**

*Recommended for:* students interested in pursuing a career in Advertising, Business, Communication, Economics, Education, Family and Consumer Sciences, History, Human Development, Human Resources, Information Technology, Journalism, Law, Nursing, Political Science and Government, Psychology, Public Health, Religion, Social Work, Sociology, Statistics, or Theatre Arts. The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior 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. They also learn about the ethics and methods psychologists use in their science and practice.

**World Religions****1 Credit - Grades 11 - 12****Prerequisite-World History**

The purpose of the course is to study the impact of various religious concerns of humanity, and the ways in which religions have developed throughout history, giving intellectual, moral, and institutional expression to the meaning of human existence. The course will also study the impact of religion on contemporary society, art, culture and public policy without endorsing or disparaging any particular religion or culture. Religions studied will include (but not be limited to) Animism, Hinduism, Buddhism, Islam, Shinto, Sikhism, and Taoism.

**AP European History****1 Credit - Grades 11-12**

Develops an understanding of the main themes in modern European history including political and diplomatic, intellectual and cultural and social and economic history. Analyzing historical evidence and reading critical literary narratives is integrated into the chronologically ordered whole picture of the modern history of Europe. Using a college-level textbook, this course begins with the Renaissance and concludes with the demise of communism in Eastern Europe, the reunification of Germany and the crisis of global terrorism. Emphasis will be placed on: (1) the growth in power of the state and competition among nation-states; (2) individualism as a force for progress and its conflict with the demands of society, (3) the impact of economic innovation on the standard of living and traditional ways of life, (4) the struggle by women, workers, peasants, and ethnic minorities for emancipation and power and (5) the dynamism and destructiveness resulting from Europe's quest for master of its natural and human environments.

# Transportation, Distribution, & Logistics

## Automotive

**Level I Principles of Transportation Systems**

**Level II Energy and Power of Transportation  
Small Engine Technology I**

**Level III Automotive Technology I  
Collision Repair/Lab**

**Level IV Automotive Technology II  
Paint and Refinishing/Lab  
Practicum in Transportation**

### Principles of Transportation Systems

**1 Credit - Grades 9-12**

In Principles of Transportation Systems, students will gain knowledge and skills in the safe application, design, production, and assessment of products, services, and systems. This knowledge includes the history, laws and regulations, and common practices used in the transportation industry. Students should apply knowledge and skills in the application, design, and production of technology as it relates to the transportation industries. This course allows students to reinforce, apply, and transfer their academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings.

### Energy, Power, and Transportation Systems

**1 Credit - Grades 10-12**

**Prerequisite: Principles of Transportation**

Energy and Power of Transportation Systems will prepare students to meet the expectations of employers in this industry and to interact and relate to others. Students will learn the technologies used to provide products and services in a timely manner. The businesses and industries of the Transportation, Distribution, and Logistics Career Cluster are rapidly expanding to provide new career and career advancement opportunities. Performance requirements will include academic and technical skills. Students will need to understand the interaction between various vehicle systems, including engines, transmissions, brakes, fuel, cooling, and electrical. Students will also need to understand the logistics used to move goods and services to consumers, as well as the components of transportation infrastructure.

### Automotive Technology I

**2 Credits - Grades 11-12**

**Prerequisite: Energy, Power, and Trans. Systems**

Automotive Technology I includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. This course includes applicable safety and environmental rules and regulations. Students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability. Auto Tech offers ASE certifications.

### Automotive Technology II

**2 Credits - Grade 12**

**Prerequisites: Automotive Technician I.**

Automotive Service includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. This course includes applicable safety and environmental rules and regulations. In this course, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability. Auto Tech II offers ASE certifications.

### Practicum in Transportation Systems

**2 Credits – Grade 12**

**Prerequisite: Completion of at least 3 credits in a coherent sequence of courses in the Transportation Career Cluster.**

Practicum in Transportation Systems is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience such as internships, mentorships, independent study, or laboratories. The Practicum can be either school lab based or worked based.

### Small Engine Technology I

**1 Credit – 10th – 12 Grade**

**Prerequisite: Principles of Transportation**

**Recommended Prerequisite: Energy, Power and Transportation**

Small Engine Technology I includes knowledge of the function and maintenance of the systems and components of all types of small engines such as outdoor power equipment, motorcycles, generators, and irrigation engines. This course is designed to provide training for employment in the small engine technology industry. Instruction includes the repair and service of cooling, air, fuel, lubricating, electrical, ignition, and mechanical systems. In addition, the student will receive instruction in safety, academic, and leadership skills as well as career opportunities.

### Collision Repair

**2 Credits - Grades 11-12**

**Prerequisite: Principles of Transportation**

**Recommended Prerequisite: Energy, Power and Transportation**

Collision repair and refinishing services includes knowledge of the processes, technologies, and materials used in the reconstruction and alteration of vehicles. This course is designed to teach the application of advance technical skills and practices related to collision repair and

### Paint & Refinishing

**2 Credits - Grades 12**

**Prerequisite: Collision Repair**

Paint and Refinishing includes knowledge of the processes, technologies, and materials used in the reconstruction of vehicles. This course is designed to teach the concepts and theory of systems related to automotive paint and refinishing.

# Appendix A

## GRADUATION PLANS

House Bill 5 allows local school boards some discretion regarding which endorsements and supporting courses to offer. While some courses are still required by the state, there is flexibility at the local level. The MISD Board of Trustees approved a MISD graduation plan, effective with all incoming freshmen beginning with the 2014-15 school year.

### **Q: How many different options are available under this new graduation plan?**

A: There are three options available:

- Foundation
- Foundation + Endorsement (state distinguished)
- Distinguished Level of Achievement

### **Q: If students complete only the Foundation program, can they apply to a four-year college?**

A: Yes, students may apply to four-year colleges upon successful completion of the Foundation High School Program. MISD encourages students to research college and university entrance criteria. Students who graduate on the Foundation program without an endorsement may not meet entrance requirements for some colleges and universities.

### **Q: Must students declare an endorsement?**

A: Yes, students must declare their preferred endorsement areas during 8th grade student registration, by the beginning of their ninth-grade year. An endorsement is a targeted area of study.

### **Q: What endorsements must MISD students select?**

A: There are five endorsements available:

- Arts and Humanities
- Business and Industry
- Multidisciplinary
- Public Service
- Science, Technology, Engineering and Mathematics (STEM)

### **Q: Can students graduate with more than one endorsement?**

A: Yes, students who successfully complete the Foundation High School Program and a fourth English, science, social studies, and mathematics course will have completed the courses necessary to achieve the Multidisciplinary Endorsement and may also pursue additional endorsements.

### **Q: Will students be able to change their endorsement?**

A: Yes, students will be able to work with their counselor to change their endorsement while in high school.

### **Q: Will students be able to take courses under different endorsement areas?**

A: Yes, students will be allowed to take courses from each endorsement area.

**Q: Can students be undecided as to which endorsement they want to pursue?**

A: No, every student must choose an endorsement.

**Q: How will students know what courses to take?**

A: Counselors will meet with students to map their four-year plan/Personal Graduation Plan (PGP). During these meetings, counselors and students will discuss the order that a student must successfully complete specific classes to meet requirements for the Foundation, the Foundation + Endorsement and the Distinguished Level of Achievement programs.

**Q: Are students required to take Algebra II?**

A: Algebra II is a requirement for MHS students.

# Appendix B

Mabank Independent School District

Career & Technical Education

Pathways for Career and College Success

**AGRICULTURE, FOOD & NATURAL RESOURCES**

Animal Science  
Applied Agriculture Engineering – Welding  
Environmental Natural Resources  
Plant Science

**ARCHITECTURE & CONSTRUCTION**

Carpentry

**BUSINESS, MARKETING & FINANCE**

Accounting and Financial Service  
Business Management  
Entrepreneurship  
Marketing Sales

**EDUCATION & TRAINING**

Teaching & Training

**HEALTH SCIENCE**

Healthcare Diagnostic  
Healthcare Therapeutic  
Medical Therapy  
Nursing Science

**HOSPITALITY**

Culinary Arts

**HUMAN SERVICES**

Cosmetology and Personal Care Services

**INFORMATION TECHNOLOGY**

Information Technology Support and Services  
Networking Security  
Web Development

**LAW & PUBLIC SERVICE**

Law Enforcement

**SCIENCE, TECHNOLOGY, ENGINEERING & MATH**

Cybersecurity  
STEM Engineering

**TRANSPORTATION, DISTRIBUTION AND LOGISTICS**

Automotive

# Appendix C

## DUAL CREDIT OFFERINGS

Students in the 11th or 12th grades may wish to take courses that are on the college level at Trinity Valley Community College that would also receive high school credit. Some courses are approved for 9th and 10th grade students. See counselor for details. Each student must have permission one week prior to TVCC registration deadlines from his/her high school counselor before enrolling in a course for dual credit. Courses are offered each fall, spring, and summer I and summer II semesters. In most cases, these hours are transferable to other colleges; however, you should check with the college of your choice for its policy.

Students must pay for books and fees that are required each semester for dual credit course(s). Certain CTE/workforce courses are free. See counselor for additional information. Students must also meet and comply with the colleges' rules, regulations and requirements. High school students must either be exempt from the TSI or take the TSI, or other approved placement test, prior to enrollment in a Texas public college or university. Additional courses not listed below can be approved by counseling center.

Mabank High School will accept the college courses on the following page for dual credit toward high school graduation requirements.

**Courses indicated with (\*) are offered during the school day with MHS teachers/professors.**

# Dual Credit Course Offerings

<u>Course No.</u>	<u>High School Credit Earned</u>	<u>Course No.</u>	<u>High School Credit Earned</u>	<u>Course No.</u>	<u>High School Credit Earned</u>
*ACNT 1303	Accounting I (S1)	*ENGL2322	British Literature I	SPAN 1411	Spanish II Sem. 1
*ACNT 1304	Accounting I (S2)	*ENGL2323	British Literature II	SPAN 1412	Spanish II Sem. 2
*ACNT 1311	Accounting II (S1)	*HPRS 1105	Health Science Theory & Lab (S1)	*WLDG 1323	Agricultural Mechanics & Metal Technologies (S1)
*ACNT 1313	Accounting II (S2)	*MDCA 1317	Health Science Theory & Lab (S2)	*WLDG 1317	Agricultural Mechanics & Metal Technologies (S2)
*AGAH1401	Animal Science (S1)	*HPRS 1105 - Nursing	Practicum of Nursing II (S1)	*WLDG 1353	Agricultural Structures Design & Fabrications (S1)
*AGAH1447	Vet Med Applications (S1)	*MDCA 1317 - Nursing	Practicum of Nursing II (S2)	*WLDG 1428	Agricultural Structures Design & Fabrications (S1)
*AGRI 2321	Vet Med Applications (S2)	ITSC 1305	Computer Maintenance & Lab (S1)	*WLDG 1407	Agricultural Structures Design & Fabrications (S2)
*AGAH2313	Livestock Production (S1)	ITSC 1325	Computer Maintenance & Lab (S2)	*WLDG 1457	Agricultural Structures Design & Fabrications (S2)
*AGAH1353	Livestock Production (S2)	ITNW 1358	Networking & Lab (S1)	*WLDG 1202 (2021-22)	Practicum in Agricultural, Food & Natural Resources (S1)
*AGEQ 1411	Equine Science (S1)	ITNW 1325	Networking & Lab (S2)	*WLDG 1430 (2021-22)	Practicum in Agricultural, Food & Natural Resources (S1)
BCIS 1305	Business Info. Management	ITSY 1300	Practicum in Information Technology (S1)	*WLDG 1206 (2021-22)	Practicum in Agricultural, Food & Natural Resources (S2)
*BIOL 1406	Biology I	ITSY 1342	Practicum in Information Technology (S2)	*WLDG 2443 (2021-22)	Practicum in Agricultural, Food & Natural Resources (S2)
*BIOL 1407	Biology II	*MATH 1314	College Algebra		
*BMGT1341	Business Law (S1)	*MDCA 1313	Medical Terminology (S1)		
*BMGT1327	Business Law (S2)	*NURA 1407	Medical Terminology (S2)		
*CSME 1430	Intro. to Cosmetology(S1)	*MATH 2413	Calculus I		
*CSME 1431	Intro. to Cosmetology(S2)	*MATH 2414	Calculus II		
*CSME 1441	Cosmetology I & Lab (S1)	*MATH 1342	Elementary Statistics		
*CSME 1443	Cosmetology I & Lab (S2)	*NURA 1401	Practicum of Nursing I (S1)		
*ECON 2301	Macroeconomics	*NURA 1160	Practicum of Nursing I (S2)		
*ENGL 1301	English Composition I	PSYC 2301	General Psychology		
*ENGL 1302	English Composition II	PSYC 2314	Lifespan Growth & Dev.		



# Appendix D

## NCAA ELIGIBILITY

Do you want to play college sports? If so, you must register with the NCAA. Read below to learn more about NCAA eligibility and how to register. Students must be cleared by the Eligibility Center before they can receive athletic scholarships or compete at a [Division I or II institution](#).

It is the intent of the NCAA that all perspective student-athletes be academically prepared to enter college. Therefore, the NCAA has developed the NCAA Initial-Eligibility Clearinghouse that each potential student-athlete must register with prior to collegiate participation.

The NCAA recommends that student athletes register at the beginning of their junior year in high school, but many students register after their junior year.

Along with a transcript, students must also submit SAT or ACT scores directly to the Eligibility Center. You can do this easily by using code "9999" when you register to take either exam. Once scores are released, your score report will go directly to the NCAA Eligibility Center.

To play sports at an NCAA Division I or Division II institution, the student must:

- Complete a certain number of high school core courses (defined below)
- Earn a certain minimum grade point average in these core courses
- Earn a certain minimum score on the SAT or ACT (for Division I, this is scaled according to the student's core-course GPA)
- Graduate from high school

For more information, see the NCAA's Guide for the College-Bound Student-Athlete, available at the Publications section of the NCAA website.

Beginning August 2016, you must have a 2.3 high school GPA to be a college athlete but your GPA isn't the only challenge. If you don't have the core GPA (GPA from only your core courses), the test scores or the right core courses in high school, you cannot play in college. Don't let academics hold you back. To learn more about these requirements see your school counselor, coach, or visit [www.ncaaeligibilitycenter.org](http://www.ncaaeligibilitycenter.org)

You can register with the NCAA at [www.ncaaeligibilitycenter.org](http://www.ncaaeligibilitycenter.org). There is a required registration fee. Waivers are available for qualifying students.

## 2021-2022 College Prep Testing Dates

SAT \$47.50 or \$64.50 w/ essay Regis- ter:Sat. College board.org	<u>Test Date</u>	<u>Registration Deadline</u>	<u>Late Reg. Deadline (late fee applied)</u>
	<b>August 28, 2021</b>	<b>July 30, 2021</b>	<b>August 17, 2021</b>
	<b><u>*October 2, 2021</u></b>	<b>September 3, 2021</b>	<b>September 21, 2021</b>
	<b>November 6, 2021</b>	<b>October 6, 2021</b>	<b>October 26, 2021</b>
	<b>December 4, 2021</b>	<b>November 4, 2021</b>	<b>November 23, 2021</b>
	<b>March 12, 2022</b>	<b>February 11, 2022</b>	<b>March 1, 2022</b>
	<b><u>*May 7, 2022</u></b>	<b>April 7, 2022</b>	<b>April 26, 2022</b>
	<b>June 4, 2022</b>	<b>May 5, 2022</b>	<b>May 25, 2022</b>

***\*testing available at MHS***

ACT \$50.50 or \$67.00 w/ essay Register: ACT.org	<u>Test Date</u>	<u>Registration Deadline</u>	<u>Late Reg. Deadline (late fee applied)</u>
	<b>September 11, 2021</b>	<b>August 6, 2021</b>	<b>August 01, 2021</b>
	<b>October 23, 2021</b>	<b>September 17, 2021</b>	<b>October 1, 2021</b>
	<b><u>*December 11, 2021</u></b>	<b>November 5, 2021</b>	<b>November 19, 2021</b>
	<b>February 12, 2022</b>	<b>January 7, 2022</b>	<b>January 21, 2022</b>
	<b><u>*April 2, 2022</u></b>	<b>February 25, 2022</b>	<b>March 11, 2022</b>
	<b><u>*June 11, 2022</u></b>	<b>May 6, 2022</b>	<b>May 20, 2022</b>
	<b>July 16, 2022*</b>	<b>June 24, 2022</b>	<b>June 24, 2022</b>

*Fee waivers are available for eligible students*

<b><u>TSI</u></b>	<b><u>ASVAB</u></b>	<b><u>PSAT</u></b>	<b><u>AP Exams</u></b>	<b><u>SAT School Day</u></b>
When: March 2022  Where: @MHS  Why: Students must take the TSI to be eligible to take any dual credit classes.  *Students may be TSI exempt with PSAT/SAT/ACT qualifying scores  SAT: Reading/writing = 480 Math = 530  ACT: English = 19 Math = 19 23 composite  PSAT: EBRW = 460 MATH = 510	October 2021 Vocational Aptitude Battery  Open to 10 <sup>th</sup> , 11 <sup>th</sup> , and 12 <sup>th</sup> graders interested in possible enlistment OR career interest assessment  <b><u>FREE</u></b>	October 13th, 2021  Pre-SAT  9 <sup>th</sup> -11 <sup>th</sup> grades	May 2 <sup>th</sup> -May 13 <sup>th</sup> , 2022  For all students enrolled in AP Courses \$20.00	March 23 <sup>th</sup> , 2022  11 <sup>th</sup> and 12 <sup>th</sup> graders who need to take the SAT