



# **Mabank High School**

**18786 East Highway 175**

**Mabank, TX 75147**

**903.880.1600**

## **Administration**

Principal

Michael Rowland

Associate Principal

Amanda Planeta

Assistant Principal

Jimmy Tustin

Assistant Principal

Chris Johnson

Director of Career and Technical Education

Shela Koskelin

## **Guidance Department**

Counselor A-G

Erika Bettevy

Counselor H-O

Patricia Riley

Counselor P-Z

Elanna Hylander

Registrar

Shelah Bishop

# Table Of Contents

<b>GRADUATION PLANS</b>	<b>3</b>
<b>ALTERNATIVE METHODS OF EARNING CREDIT</b>	<b>3</b>
GPA CALCULATION & CLASS CATEGORY	3
GPA SCALE	4
<b>COURSE DESCRIPTIONS &amp; SEQUENCES</b>	<b>5</b>
CAREER & TECHNICAL EDUCATION	5
AGRICULTURE, FOOD, & NATURAL RESOURCES	5
ARCHITECTURE & CONSTRUCTION	8
ARTS, AUDIO/VISUAL TECHNOLOGY, AND COMMUNICATIONS	9
BUSINESS, MARKETING, & FINANCE	10
EDUCATION & TRAINING	14
ENGINEERING	15
HEALTH SCIENCE	16
HOSPITALITY & TOURISM	19
HUMAN SERVICES	20
INFORMATION TECHNOLOGY	23
LAW & PUBLIC SERVICE	28
TRANSPORTATION, DISTRIBUTION, & LOGISTICS	29
ENGLISH LANGUAGE ARTS	30
FINE & PERFORMING ARTS	32
ART	32
MUSIC	34
THEATRE	36
OTHER FINE ART ELECTIVES	36
LANGUAGES OTHER THAN ENGLISH	37
LIFE SKILLS	39
MATHEMATICS	41
MISCELLANEOUS ELECTIVES	43
PHYSICAL EDUCATION & ATHLETICS	45
SCIENCE	47
SOCIAL STUDIES	52
SPEECH	56
APPENDIX A - GRADUATION PLANS	57
APPENDIX B	58
DUAL CREDIT OFFERINGS & CROSSWALK	61
APPENDIX D-NCAA ELIGIBILITY	63
COLLEGE READINESS & OTHER TESTING INFORMATION	64

# GRADUATION PLANS

Students entering high school in 2014-2015 and beyond

DISCIPLINE	FOUNDATION	FOUNDATION + ENDORSEMENT	DISTINGUISHED LEVEL OF ACHIEVEMENT + ENDORSEMENT
ENGLISH	<b>4 Credits</b> English I English II English III An Advanced 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
MATH	<b>4 Credits</b> Algebra I Geometry Two additional math courses	<b>4 Credits</b> Algebra I & Geometry Algebra II An advanced math credits	<b>4 Credits</b> Algebra I Geometry Algebra II An advanced math course
SCIENCE	<b>4 Credits</b> Biology IPC an advanced science Two additional science courses	<b>4 Credits</b> Biology IPC, Chemistry or Physics Two advanced science credits	<b>4 Credits</b> Biology Chemistry Physics An advanced science course
SOCIAL STUDIES	<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
PHYSICAL EDUCATION	<b>1 Credit</b>	<b>1 Credit</b>	<b>1 Credit</b>
LANGUAGES OTHER THAN ENGLISH	<b>2 Credits in the same language</b> Spanish or Computer Science	<b>2 Credits in the same language</b> Spanish or Computer Science	<b>2 Credits in the same language</b> Spanish or Computer Science
FINE ARTS	<b>1 Credit</b>	<b>1 Credit</b>	<b>1 Credit</b>
SPEECH	<b>0.5 Credit</b>	<b>0.5 Credit</b>	<b>0.5 Credit</b>
TECHNOLOGY	<b>1 Credit</b>	<b>1 Credit</b>	<b>1 Credit</b>
ELECTIVES	<b>4.5 Credits</b>	<b>4.5 Credits</b>	<b>4.5 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

## END OF COURSE 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.**

<p><b>Grade Level Classification</b> Freshmen (9th): 0 - 5.5 credits Sophomores (10th): 6 - 11.5 credits Juniors (11th): 12 - 17.5 credits Seniors (12th): 18+ credits</p>
--

## 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 the 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 homepage of the MHS website under Student Organizations and Senior Class Sponsor web page.

## **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 coursework. 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.

## **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 email 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 email this information to [mlsanche@mabankisd.net](mailto:mlsanche@mabankisd.net)

## COURSE SELECTION SPECIFICS

### AP COURSE 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 highschool 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 students?

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 “Meets”
- 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 “Meets”
- 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 “Meets”
- 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 “Meets”
- 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 70 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

**Schedule Changes**

Mabank High School urges students and parents to consult with counselors for guidance in choosing courses that align with personal and graduation requirements. Careful planning is crucial for wise decisions in achieving future goals. Courses for the next school year are scheduled based on registration information. Selection should align with academic abilities and interests, considering time demands. Changes after May 1st, 2024, are allowed only for scheduling errors, class equalization, or 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. Due to factors beyond the school's control, the availability of a specific teacher for a particular class cannot be guaranteed.

# ALTERNATIVE METHODS OF EARNING CREDIT

## CREDIT BY EXAM SPECIFICS

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.
  - Students must have received a grade of at least 60-69 in the course.
  - Students must not have lost credit due to excessive absences.
  - Students must score at least a 70 on the exam. Grades earned will not be included in the student's GPA.
  - Only two attempts to earn credit through credit-by-exam are allowed. If a student fails two attempts for a specific exam, credit must be obtained by retaking the course. The NCAA does not accept credit-by-exams for course credit.
- Credit by Exam without prior instruction:
  - Students must receive a grade of 80. Grades 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

Students may fulfill up to three state-required credits through approved correspondence courses from Texas Tech University or the University of Texas at Austin, facilitated by the Extension Division. To enroll, students need counselor approval, with a limit of one correspondence course at a time. Approval is granted to students with twelve credits completed or under special circumstances. Students are responsible for the cost.

The Virtual School Network (TxVSN) offers supplementary high school courses for students with academic needs suitable for online learning. To assess readiness, students must take a pre-assessment, accessible with login details from their high school counselor. Course enrollment is managed by the counselor, with no set limit, but it's recommended not to exceed two due to rigor. Fees vary, and waivers may apply based on state funds. TxVSN courses follow the district's schedule and guidelines, occurring outside the regular school day and not affecting GPA or class rank. For details, consult your counselor or visit the provided resource. Website: [www.txvsn.org](http://www.txvsn.org)

### Credit Recovery

Edgenuity Courses are offered during the school day. If a student has failed 2 courses they may have the opportunity to take online credit recovery for free during the school day. Students should speak with their counselor.

The student must have taken the entire course face to face and have attempted the STAAR End Of Course Exam in order to take the following courses in Edgenuity.

- The student must have previously attempted the STAAR EOC. (Pass or Fail)
- The student must have taken the entire course face to face before taking the course in Edgenuity.

# GPA CALCULATION & 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 3.5 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 three category GPA scale.



# GPA SCALE

\*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	-	-	-

# COURSE DESCRIPTIONS & SEQUENCES

## CAREER & TECHNICAL EDUCATION

### AGRICULTURE, FOOD, & NATURAL RESOURCES

#### ANIMAL SCIENCE COURSE SEQUENCE

##### Principles of Agriculture, Food & Natural Resources

1 Credit Grades 9-12 Prerequisite: \*SAEP Required

Principles of Agriculture, Food, and Natural Resources develops students' knowledge and skills regarding career and educational opportunities, personal development, globalization and industry standards in agriculture. Topics of discussion will include: SAEP-Supervised Agricultural Experience Programs (Project Programs) and their requirements, the FFA Organization from the local to the national level, and the agriculture industry.

##### Livestock Production (AGAH 2313/AGAH 1353)

1 Credit Grades 10-12 Prerequisite: Principles of Ag, TVCC admittance

In Livestock Production, students will acquire knowledge and skills related to livestock and the livestock production industry. Livestock Production includes topics related to beef cattle, dairy cattle, swine, sheep, goats, and poultry.

##### Small Animal Management

0.5 Credit Grades 11-12

Small Animal Management is designed to provide a foundation in the field of animal science. In this course students will acquire knowledge and skills related to small animals and the small animal management industry including topics related to small mammals such as dogs and cats, amphibians, reptiles, and birds.

AND

##### Equine Science (AGEQ1411)

0.5 Credit Grades 11-12

In this course students will gain knowledge and skills in equine animal systems and the industry including horses, donkeys, and mules.

OR

##### Veterinary Medical Applications (AGAH 1447/AGRI 2321) Dual Credit Fees Apply, TSI

1 Credit Grades 11-12 Prerequisite: Livestock Production, TVCC Admittance

Veterinary Medical Applications covers topics relating to veterinary practices, including practices for large and small animals. Veterinary Medical Applications offers students the opportunity to become a certified Vet Assistant and includes instruction & exposure to skill sets required to pass the written exam certification. Three hundred (300) observation hours with a certified vet are required to complete the certification. These hours are completed outside of the normal school day. Coordinating and recording of hours is the student's responsibility. Clinic hours are intended to culminate during students' senior year. Students are encouraged to partner with a vet beginning their sophomore year.

Industry Based Certification Outcome: Elanco Veterinary Medical Applications

##### Advanced Animal Science (AGRI 1419/AGRI 1131) Dual Credit Fees Apply, TSI

1 Credit Grades 11-12 Category I

Prerequisites: Biology & Chemistry or IPC; Algebra I & Geometry and Small Animal Mgt./Equine Science or Livestock Production, TVCC Admittance

Recommended Prerequisite: Veterinary Medical Applications

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.

Note: This course satisfies the 4th science credit requirement for students in the Animal Science Program of Study Industry Based Certification Outcome: Elanco Fundamentals of Animal Science

OR

##### Practicum in Agriculture, Food, and Natural Resources- Vet Med

2 Credits Grade 12 Prerequisite: Vet Med Applications

This course is designed to give students supervised practical application of knowledge and skills in the field of veterinary medicine. The practicum course is an unpaid capstone experience for students participating in the Animal Science program of study.


Industry Based Certification Outcome: Certified Veterinary Assistant Level I

# AG TECHNOLOGY & MECHANICAL SYSTEMS COURSE SEQUENCE - WELDING

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

1 Credit Grades 9-12 Prerequisite: \*SAEP Required


Principles of Agriculture, Food, and Natural Resources develops students' knowledge and skills regarding career and educational opportunities, personal development, globalization and industry standards in agriculture. Topics of discussion will include: SAEP-Supervised Agricultural Experience Programs (Project Programs) and their requirements, the FFA Organization from the local to the national level, and the agriculture industry.



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

1 Credit Grades 10-12 Prerequisite: Principles of Ag, TVCC admittance


Agricultural Mechanics and Metal Technologies is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metalworking techniques. To prepare for 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.



## **Agricultural Structures Design and Fabrication (WLDG 1353 & 1428/WLDG 1407 & 1457)\***

1 Credit Grades 10-12 Prerequisite: Agriculture Mechanics and Metal Technology, TVCC admittance

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. Supervised student activities are required. Point system applies.



## **Practicum in Agriculture, Food, and Natural Resources (Welding (WLDG 1202 & 1430/WLDG 1206 & 2443)**

2 Credits Grades 12 Prerequisite: Agricultural Structures Design and Fabrication, TVCC Admittance

This practicum course includes project based learning experiences developed by a student or group of students, teacher and/or 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 multiple real-world projects. Supervised student activities are required. Point system applies.

Industry Based Certification Outcome: American Welding Society D1.1 & D9.1 Sheet Metal Welding

\*Required to earn TVCC's Dual Credit Arc Welding Certificate

# PLANT SCIENCE COURSE SEQUENCE

## Principles of Agriculture, Food & Natural Resources

1 Credit Grades 9-12 Prerequisite: \*SAEP Required

Principles of Agriculture, Food, and Natural Resources develops students' knowledge and skills regarding career and educational opportunities, personal development, globalization and industry standards in agriculture. Topics of discussion will include: SAEP-Supervised Agricultural Experience Programs (Project Programs) and their requirements, the FFA Organization from the local to the national level, and the agriculture industry.

## Floral Design

1 Credit Grades 10-12 Prerequisite: Principles of Ag

Floral Design develops 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. The required end of course/certification exam will test student's knowledge of the floral industry, common terms associated with daily floral tasks and identify common tools and plants used in the floral industry.

Note: This course satisfies a fine arts credit requirement for students in the Plant Science Program of Study

Industry Based Certification Outcome: Texas State Floral Association Floral Skills Knowledge Based Certification

## Horticultural Science

1 Credit Grades 11-12

Prerequisite: Floral Design

Horticultural Science is designed to develop an understanding of common horticultural management practices as they relate to food and ornamental plant production. Students will learn classification and identification of horticultural plants, environmental requirements, use of media, propagation of plants and the growing of greenhouse plants, and nursery production.

## Floral Design II

1 Credit Grades 11-12

Prerequisite: Floral Design

Students will be introduced to advanced floral design concepts, with an emphasis on specialty designs and specific occasion planning. This course provides students with a thorough understanding of the design elements and planning techniques used to produce unique specialty floral designs. Students will explore the design needs and expectations of clients and propose and evaluate appropriate creations. From conception to evaluation, students will be challenged to create and design appropriate specialty floral designs that meet the needs of the client.

Industry Based Certification Outcome: TBD

OR

## Advanced Plant and Soil Science

1 Credit Grades 12 Category III (Category II starting with Class of 2028 and after)

Prerequisites: Biology and IPC, Chemistry or Physics and a minimum of two credits from courses in the Agriculture, Food, and Natural Resources Career Cluster, preferably from the Plant Science Program of Study

Advanced Plant and Soil Science provides an opportunity for students to learn about the natural world. Students learn how plant and soil science has influenced a vast body of knowledge, applications yet to be discovered, and that plant and soil science is the basis for many other science fields. The required end of course/certification exam verifies students have acquired the knowledge and skills necessary to excel in a variety of plant, natural and environmental science related fields and are prepared to play a vital role in ensuring agricultural productivity.

Note: This course satisfies the 4th science credit requirement for students in the Ag, Food, and Natural Resources Program of Study

Industry Based Certification Outcome: BASF Plant & Soil Science

OR

## Practicum in Agriculture, Food, and Natural Resources –Horticulture/Floral

1 Credits Grade 12 Prerequisite: Horticulture Science.

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 expand and apply their knowledge of classification and identification of horticultural plants, advanced floral designs, environmental requirements, use of media, propagation of plants and the growing of greenhouse plants, and nursery production.

Experiences with the production of vegetables, fruits and nuts, control of soil and plant diseases, insects, and weeds will be provided.


# ARCHITECTURE & CONSTRUCTION

## CARPENTRY COURSE SEQUENCE

### **Principles of Construction**

1 Credit      Grades 9-12

This course offers an overview of architecture, interior design, and construction management. It emphasizes decision-making and problem-solving skills crucial for career planning. Job-specific training, including safety, ethics, communication, and technical skills is provided. Topics cover health, environment, leadership, teamwork, and ethical responsibility, fostering skills like problem-solving, critical thinking, and reading technical drawings




### **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, construction math, building materials, codes, and framing. For safety and liability considerations, limited course enrollment to 15 students is recommended.


Industry Based Certification Outcome: NCCER Core I



### **Construction Technology II**

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.



### **Practicum in Construction Technology**

2 Credits      Grade 12      Prerequisite: Construction Technology II

In Practicum in Construction Technology, students will be challenged with the application of knowledge gained and skills learned from Construction Technology I and II. This practicum course includes project based learning experiences for an in depth study of construction.. The student, or group, demonstrates the ability to utilize a variety of resources, advanced technology, and communication skills in the development and presentation of multiple real-world projects.


# ARTS, AUDIO/VISUAL TECHNOLOGY, AND COMMUNICATIONS

## GRAPHIC DESIGN & INTERACTIVE MEDIA

### Digital Media (Yearbook I)

1 Credit Grade 8-12


In Digital Media students develop an understanding of basic photography, journalism, and design elements, while planning, developing, and creating an innovative yearbook that captures the moments of the school year. Throughout the course students will develop skills in page design, publishing techniques, copywriting, editing, and photography. Reading, writing, computing, communication, and critical thinking skills are required.



### Commercial Photography I (Yearbook II)

1 Credits Grades 9-12 Prerequisite: Digital Media


Commercial Photography I expands students' skills in page design, publishing techniques, copywriting, editing, and photography while producing a creative, innovative yearbook that captures the moments of the school year. A variety of technology, including digital cameras, lighting, design software, and editing tools will be used throughout the course. Specialized instruction for camera and equipment operation and maintenance, applications to commercial and industrial needs, and photography business operations will be provided.



### Commercial Photography II/Lab (Yearbook III)

2 Credits Grades 10-12 Prerequisite: Commercial Photography I

Commercial Photography II develops advanced skills and knowledge in commercial photography projects. Students' knowledge will increase in creating photographs for defined purposes, applying elements and principles of design to projects, choosing appropriate camera equipment for projects, and selecting appropriate production processes for the finished product.



### Practicum in Commercial Photography I (Yearbook III)

2 Credits Grades 11-12 Prerequisite: Commercial Photography II

Practicum in Commercial Photography I provides real-world, hands-on application of advanced knowledge and skills in commercial photography including page design, publishing techniques, copywriting, editing, and photography.

Industry Based Certification Outcome: TBD



### Practicum in Commercial Photography II (Yearbook IV)

2 Credits Grades 12 Prerequisite: Practicum in Commercial Photography I

Practicum in Commercial Photography II provides real-world, hands-on application of advanced knowledge and skills in commercial photography including page design, publishing techniques, copywriting, editing, and photography.

# BUSINESS, MARKETING, & FINANCE

## ACCOUNTING & FINANCIAL SERVICES COURSE SEQUENCE

### Principles of Business, Marketing & Finance

1 Credit Grades 9-12

This course provides students an opportunity to gain knowledge and skills in economies and private enterprise systems and learn about the impact of global business, the marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in business, marketing, and finance.

### Accounting I (ACNT 1303)

1 Credit Grades 10-12

Prerequisites: Principles of Business, TVCC Admittance  
In Accounting I, students 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 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 includes such activities as bookkeeping, systems design, analysis, and interpretation of accounting information.

Industry Based Certification Outcome:  
NOCTI Accounting Fundamentals

### Business Information Management I (BCIS 1305/POFI 2301)

**TSI Requirement Waived, Dual Credit Fees Apply**

1 Credit Grades 10-12

Prerequisites: Touch Systems Data Entry, TVCC Admittance  
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.

AND

### Accounting II (ACNT 1311/ACNT 1313)

1 Credit Grade 11 (Category I starting with Class of 2028 and after) Prerequisites: Accounting I, TVCC Admittance

In Accounting II, students continue the investigation of the field of accounting. 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.

Note: This course satisfies a math credit requirement for students in the Business, Marketing & Finance Career Cluster  
Industry Based Certification Outcome: Microsoft Office Specialist Excel Expert

OR

### Practicum in Business Management I

2 Credits Grade 11-12 Prerequisite: A minimum of 3 credits from courses in the Accounting & Financial Program of Study

This course provides opportunities for students to participate in learning experiences that combine classroom instruction with non- paid business and industry employment experiences. The goal of this course is to prepare students with a variety of skills for a fast- changing workplace. Practicum experiences occur in an unpaid arrangement and can include a variety of locations appropriate to the nature and level of experience.

Industry Based Certification Outcome: Microsoft Office Specialist Word Expert & Excel Expert

# BUSINESS MANAGEMENT COURSE SEQUENCE

## Principles of Business, Marketing & Finance

1 Credit Grades 9-12

This course provides students an opportunity to gain knowledge and skills in economies and private enterprise systems and learn about the impact of global business, the marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in business, marketing, and finance.



## Business Information Management I

**(BCIS 1305/POFI 2301) TSI Requirement Waived, Dual Credit Fees Apply**

1 Credit Grades 10-12 Prerequisites: Touch Systems Data Entry, TVCC Admittance

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 Law (BUSI 1300 & BUSI 2301)

**Dual Credit Fees Apply, TSI**

1 Credit Grades 11-12

Prerequisites: Principles of Business, TVCC Admittance  
Business Law provides opportunities 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.

## Business Information Management II

1 Credit Grades 10-12

Prerequisites: BIM I (BCIS 1305/POFI 2301)

Business Computer Information System II is a lab course that emphasizes the concepts and skills related to advanced computer applications in the business environment. Special emphasis is placed on computer operations, word processing, database management, spreadsheet manipulation and multimedia presentations.

**AND**

Industry Based Certification Outcome:  
Microsoft Office Specialist Word & Excel Expert



## Statistics & Business Decision Making

1 Credit Grade 12 Category III Prerequisite: Algebra II

This course introduces students to statistics and provides opportunities for the application of statistics to the business decision making process. The course includes life applicable math scenarios and concepts appropriate for business and personal financial decision making.

Note: This course satisfies a 4th math credit requirement for students on the Foundation High School Program.

**OR**

## Practicum in Business Management I

2 Credits Grade 11-12

Prerequisite: A minimum of 3 credits from courses in the Business Management Program of Study

This course provides opportunities for students to participate in learning experiences that combine classroom instruction with non- paid business and industry employment experiences. The goal of this course is to prepare students with a variety of skills for a fast- changing workplace. Practicum experiences occur in an unpaid arrangement and can include a variety of locations appropriate to the nature and level of experience.

Industry Based Certification Outcome: Microsoft Office Specialist Word Expert & Excel Expert



# ENTREPRENEURSHIP COURSE SEQUENCE

## Principles of Business, Marketing & Finance

1 Credit Grades 9-12

This course provides students an opportunity to gain knowledge and skills in economies and private enterprise systems and learn about the impact of global business, the marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in business, marketing, and finance.

## Entrepreneurship

1 Credit Grades 10-12

Prerequisite: Principles of Business

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. The required end of course/certification exam validates a students' understanding of core business principles, including the essentials needed to launch and maintain a successful business.

Industry Based Certification Outcome:  
Entrepreneurship & Small Business

## Business Information Management I (BCIS 1305/POFI 2301)

**TSI Requirement Waived, Dual Credit Fees Apply**

1 Credit Grades 10-12

Prerequisites: Touch Systems Data Entry, TVCC Admittance

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.

**AND**

## Practicum in Marketing I

2 Credits Grades 11-12

Practicum in Marketing is an occupational practicum course designed to focus on the marketing concepts and principles and their practical applications. Students will gain a working knowledge and application of marketing concepts. Classroom instruction includes a paid work-based component/employment in the business, marketing, or finance industry. Computer-based virtual business simulations will be used throughout the course. Employment in an approved paid work-based learning environment for a minimum average of 15 hours per week that spans the entire school year is required. Students must have transportation & are encouraged to join DECA.

## Practicum in Marketing II

2 Credits Grades 12 Prerequisite: Practicum in Marketing I

Practicum in Marketing is an occupational practicum course designed to focus on the marketing concepts and principles and their practical applications. Students will gain a working knowledge and application of marketing concepts. Classroom instruction includes a paid work-based component/employment in the business, marketing, or finance industry. Computer-based virtual business simulations will be used throughout the course. Employment in an approved paid work-based learning environment for a minimum average of 15 hours per week that spans the entire school year is required. Students must have transportation & are encouraged to join DECA

# MARKETING & SALES COURSE SEQUENCE

## Principles of Business, Marketing & Finance

1 Credit Grades 9-12

This course provides students an opportunity to gain knowledge and skills in economies and private enterprise systems and learn about the impact of global business, the marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in business, marketing, and finance.

## Sports and Entertainment Marketing

0.5 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.

## Business Information Management I (BCIS 1305/POFI 2301)

**TSI Requirement Waived, Dual Credit Fees Apply**

1 Credit Grades 10-12

Prerequisites: Touch Systems Data Entry, TVCC Admittance

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.

AND

## Practicum in Marketing I

2 Credits Grades 11-12

Practicum in Marketing is an occupational practicum course designed to focus on the marketing concepts and principles and their practical applications. Students will gain a working knowledge and application of marketing concepts. Classroom instruction includes a paid work-based component/employment in the business, marketing, or finance industry. Computer-based virtual business simulations will be used throughout the course. Employment in an approved paid work-based learning environment for a minimum average of 15 hours per week that spans the entire school year is required. Students must have transportation & are encouraged to join DECA.

## Statistics & Business Decision Making

1 Credit Grade 12 Category III Prerequisite: Algebra II

This course introduces students to statistics and provides opportunities for the application of statistics to the business decision making process. The course includes life applicable math scenarios and concepts appropriate for business and personal financial decision making.

Note: This course satisfies a 4th math credit requirement for students on the Foundation High School Program.

## Practicum in Marketing II

2 Credits Grades 12 Prerequisite: Practicum in Marketing I

Practicum in Marketing is an occupational practicum course designed to focus on the marketing concepts and principles and their practical applications. Students will gain a working knowledge and application of marketing concepts. Classroom instruction includes a paid work-based component/employment in the business, marketing, or finance industry. Computer-based virtual business simulations will be used throughout the course. Employment in an approved paid work-based learning environment for a minimum average of 15 hours per week that spans the entire school year is required. Students must have transportation & are encouraged to join DECA


# EDUCATION & TRAINING

## TEACHING & TRAINING COURSE SEQUENCE

### **Principles of Education & Training**

1 Credit      Grades 9-12


Principles of Education and Training is designed to introduce learners to the various careers available within the Education and Training Career Cluster. Students will use self- knowledge as well as educational and career information to analyze various careers within the Education and Training Career Cluster.



### **Human Growth & Development**

1 Credit - Grades 10-12

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

Prerequisite: Human Growth & Development

Instructional Practices 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**

2 Credits

Grade 12

Prerequisite: Instructional Practice

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. The end of course/certification measures a students ability to plan, manage, and provide education training and support services within an educational setting.

Industry Based Certification Outcome: Education Aide I


# ENGINEERING

## ENGINEERING FOUNDATIONS COURSE SEQUENCE

### **Principles of Applied Engineering**

1 Credit      Grade 8


Principles of Applied Engineering provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will develop engineering communication, computer graphics, modeling, and presentation skills by using a variety of computer hardware and software applications to complete assignments and projects, including group or team projects. Upon completing this course, students will understand the various fields of engineering and will be able to make informed career decisions.



### **Introduction to Engineering Design (PLTW1)**

1 Credit      Grades 9-12      Category I

Important engineering concepts, such as engineering mindset, systems thinking, and computational thinking will be introduced. Students will take a deep dive into the engineering design process, applying math, science, and engineering standards to hands-on projects. Students will work both individually and in teams to design solutions to a variety of problems using 3-D modeling software and use an engineering notebook to document their work




### **Engineering Science/Principles of Engineering (PLTW 2)**

1 Credit      Grades 10-12      Category I

Prerequisites: PLTW1 , 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.

Note: This course satisfies a science credit requirement for students in the Engineering Foundations Program of Study.



### **Civil Engineering & Architecture (PLTW3)**

1 Credit      Grades 11-12      Category I      Prerequisites: PLTW2, Algebra I, and Geometry

In Civil Engineering & Architecture, students learn important aspects of building and site design and development. Students apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architecture design software.

Industry Based Certification Outcome: NOCTI Engineering Technology Foundations



### **Engineering Design & Problem Solving**

1 Credit      Grades 12      Category III (Category II starting with Class of 2028 and after)

Prerequisite: PLTW3

Engineering Design is the creative process of solving problems by identifying needs and devising solutions, ranging from products to processes. It involves understanding limiting factors or "design under constraint." This course integrates skills from previous math and science courses, emphasizing problem-solving with real-world applications. Students apply critical thinking to justify solutions and explore career opportunities in engineering. The course stimulates ingenuity, intellectual talents, and practical skills in solving engineering design problems. Using the engineering design process cycle, students investigate, design, plan, create, and evaluate solutions while considering social and ethical implications of technological development.

Note: This course satisfies a science credit requirement for students in the Engineering Foundations Program of Study.



# HEALTH SCIENCE

## DIAGNOSTIC & THERAPEUTIC SERVICES COURSE SEQUENCE

### Principles of Health Science

1 Credit Grades 9-12

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/NURA1307)

1 Credit Grades 9 -12 Prerequisites: Principles of Health Science, TVCC Admittance

Medical Terminology is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

### Anatomy and Physiology

1 Credit Grades 11-12 Category III

Prerequisites: Biology & a 2nd science credit

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

Note: This course satisfies a science credit requirement for students on the Foundation High School Program.

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

2 Credits Grades 11-12

Prerequisites: Medical Terminology and Biology, TVCC Admittance

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, HIPAA communication, safety, and observations. Students will employ hands-on experiences for continued knowledge and skill development. Applicable fees apply.

AND

### Advanced Medical Microbiology

1 Credit Grade 12 Category III (Category II starting with Class of 2028 and after)

Prerequisites: Biology and Chemistry

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

Note: This course satisfies a science credit requirement for students on the Foundation High School Program.

### Practicum in Health Science

2 credits Grade 12

Prerequisite: Health Science Theory & Biology

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. Extended learning opportunities with partnering healthcare facilities and industry partners are provided. Applicable fees apply

Industry Based Certification Outcome: EKG Technician

AND

# EXERCISE SCIENCE, WELLNESS, & RESTORATION COURSE SEQUENCE

## Principles of Health Science

1 Credit Grades 9 - 12

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.

## Lifetime Wellness & Nutrition

.5 Credits Grades 10-12

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, education and training, human services, and health sciences.

## Medical Terminology (MDCA 1313/NURA1307)

1 Credit Grades 9 - 12

Prerequisites: Principles of Health Science, TVCC Admittance

Medical Terminology is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

AND

## Anatomy and Physiology

1 Credit Grades 11-12 Category III

Prerequisites: Biology & a 2nd science credit

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

Note: This course satisfies a science credit requirement for students on the Foundation High School Program.

AND

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

2 Credits Grades 11-12

Prerequisites: Medical Terminology and Biology, TVCC Admittance

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, HIPAA communication, safety, and observations. Students will employ hands-on experiences for continued knowledge and skill development. Applicable fees apply.

## Practicum in Health Science

2 credits Grade 12

Prerequisites: Health Science Theory & Biology

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. Extended learning opportunities with partnering healthcare facilities and industry partners are provided. Applicable fees apply

Industry Based Certification Outcome: EKG Technician

OR

## Practicum in Health Science - Sports Medicine

2 credits Grade 12

Prerequisites: Sports Med II, Health Science Theory & Biology

This course provides a logical progression for students who have advanced through the coherent sequence of Health Science courses and Sports Med I & II. This course prepares students for college level coursework and provides them with opportunities 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. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Work-based experiences outside of the normal school day are required.

# NURSING SCIENCE COURSE SEQUENCE

## Principles of Health Science

1 Credit Grades 9-12

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/NURA1307)\*

1 Credit Grades 9-12 Prerequisite: Principles of Health Science, TVCC Admittance

Medical Terminology is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

## Anatomy and Physiology

1 Credit Grades 11-12 Category III

Prerequisites: Biology & a 2nd science credit

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

Note: This course satisfies a science credit requirement for students on the Foundation High School Program.

## Practicum in Health Science CNA (HPRS1105,NURA1401/NURA1160)\*

2 Credits Grades 11-12

Prerequisites: Medical Terminology & Biology, TVCC Admittance

Practicum in Health Science CNA 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. Applicable fees apply.

Industry Based Certification Outcome:  
Certified Nursing Assistant

\*Required for TVCC's CNA Occupational Skills Award

AND

## Advanced Medical Microbiology

1 Credit Grade 12 Category III (Category II starting with Class of 2028 and after)

Prerequisites: Biology and Chemistry

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

Note: This course satisfies a science credit requirement for students on the Foundation High School Program.

## Practicum in Nursing I

(MDCA1348, MDCA1452/MDCA1160, MDCA1317, MDCA1254)\*  
2 Credits Grade 12

Prerequisites: Biology, Chemistry, and Practicum in Health Science CNA, TVCC Admittance

Practicum in Nursing is designed to give students practical applications of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience, including clinics. Applicable fees apply

Industry Based Certification Outcome:  
Certified Clinical Medical Assistant

\*Required for TVCC's CCMA Certificate

AND


# HOSPITALITY & TOURISM

## CULINARY ARTS COURSE SEQUENCE

### **Introduction to Culinary Arts**

1 Credit      Grades 9-12


Introduction to Culinary Arts emphasizes 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.



### **Culinary Arts**

2 Credits      Grades: 10-12      Prerequisite: Introduction to Culinary Arts


The lab based 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.



### **Practicum in Culinary Arts**

2 Credits      Grades: 11-12      Prerequisite: Culinary Arts

Practicum in Culinary Arts is a unique practicum that provides occupationally specific opportunities for students to participate in learning experiences that combine classroom instruction with business and industry career experiences. Practicum in Culinary Arts integrates academic and career and technical education with the goal of preparing students with a variety of skills in a fast-changing workplace.



### **Practicum in Culinary Arts II**

2 Credits      Grades: 12      Prerequisite: Practicum in Culinary Arts I

Practicum in Culinary Arts II 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 with the goal of preparing students with a variety of skills in a fast-changing workplace



# HUMAN SERVICES

## COSMETOLOGY & PERSONAL CARE SERVICES

2-Year Cosmetology Program Course Sequence

In partnership with Summit Salon Academy Mabank

Entry is limited to a student's junior year

Tuition & Fees Apply

### **Introduction to Cosmetology**

1 Credit      Grade 11

Intro to Cosmetology provides students with an overview of the fundamental skills and knowledge necessary for the field of Cosmetology. Students will demonstrate professional ethics, safety, sanitation and sterilization; and explain the laws and rules of the state licensing agency. Throughout this course students begin earning hours toward state licensing requirements.

**AND**

### **Cosmetology I/Lab**

3 Credits      Grade:11

Cosmetology I/Cosmetology I Lab provides students additional lab time to develop proficient and mastery level cosmetology skills and techniques as required by Texas Department of Licensing and Regulation licensing standards. Students will be expected to demonstrate mastery in conducting the skills and techniques learned in Cosmetology I with little to no guidance.

### **Principles of Cosmetology Design & Color Theory**

1 Credit      Grade 12

In Principles of Cosmetology Design and Color Theory, students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in Cosmetology. Students will attain academic skills and knowledge as well as technical knowledge and skills related to cosmetology design and color theory. Students will develop knowledge and skills regarding various cosmetology design elements such as form, lines, texture, structure and illusion or depth as they relate to the art of cosmetology. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the TDLR requirements for licensure upon passing the state examination. Analysis of career opportunities, license requirements, knowledge and skills expectations, and development of workplace skills are included.

**AND**

### **Cosmetology II/Lab**

3 Credits      Grade 12      Category I

Prerequisites: Cosmetology I/Cosmetology I Lab  
Cosmetology II /Cosmetology II Lab provides students additional lab time to develop proficient and mastery level cosmetology skills and techniques as required by Texas Department of Licensing and Regulation licensing standards. Students are expected to develop proficient and mastery level work samples and to expand their work experiences.

Industry Based Certification Outcome:  
Cosmetology Operator License

# COSMETOLOGY & PERSONAL CARE SERVICES

2-Year Esthetician Program Course Sequence

In partnership with Summit Salon Academy Mabank

Entry is limited to a student's junior year

Tuition & Fees Apply

## Introduction to Cosmetology

1 Credit      Grade 11

Intro to Cosmetology provides students with an overview of the fundamental skills and knowledge necessary for the field of Cosmetology. Students will demonstrate professional ethics, safety, sanitation and sterilization; and explain the laws and rules of the state licensing agency. Throughout this course students begin earning hours toward state licensing requirements.

## Cosmetology I/Lab

3 Credits      Grade:11

Cosmetology I/Cosmetology I Lab provides students additional lab time to develop proficient and mastery level cosmetology skills and techniques as required by Texas Department of Licensing and Regulation licensing standards. Students will be expected to demonstrate mastery in conducting the skills and techniques learned in Cosmetology I with little to no guidance.

AND

## Esthetics

2 Credits      Grade 12

Prerequisites: Intro to Cosmetology and Cosmetology I/Lab

Students enrolled in Esthetics will explore the practical skills of a skin care professional, including introduction to the treatment environment, basic facial treatments, hair removal, corrective skin care treatments, makeup application, special effects makeup application and the technology likely to be utilized in a salon, spa, or clinical setting. Analysis of career opportunities, license requirements, knowledge and skills expectations, and development of workplace skills are included.

## Cosmetology II/Lab

3 Credits      Grade 12

Prerequisites: Intro to Cosmetology and Cosmetology I/ Lab

Cosmetology II /Cosmetology II Lab provides students additional lab time to develop proficient and mastery level cosmetology skills and techniques as required by Texas Department of Licensing and Regulation licensing standards. Students are expected to develop proficient and mastery level work samples and to expand their work experiences.

AND

Industry Based Certification Outcome:  
Cosmetology Esthetician License



# COSMETOLOGY & PERSONAL CARE SERVICES

Fall Semester Nail Technician Program Course Sequence

In partnership with Trinity Valley Community College

Entry is limited to a student's senior year

Tuition & Fees Apply

## **CSME 1430 Orientation to Nail Technology**

Grade 12

Orientation to Nail Technology provides students with an overview of the fundamental skills and knowledge necessary for the field of nail technology. Students will demonstrate professional ethics, safety, sanitation and sterilization; and explain the laws and rules of the state licensing agency

**AND**

## **CSME 1431 Principles of Nail Technology I**

Grade 12

Topics include anatomy, physiology, theory, and skills related to nail technology. Students will identify and explain the basic anatomy and physiology of the hands, arms, and feet. Students will practice the related skills of manicuring, pedicuring, and nail enhancement.

**AND**

## **CSME 1441. Principles of Nail Technology II**

Principles of Nail Technology II includes advanced concepts and principles of nail technology. Topics include advanced instruction in anatomy, physiology, theory, and related skills of nail technology.

**AND**

## **CSME 1443. Manicuring and Related Theory**

This course is the presentation of the theory and practice of nail technology. Topics include terminology, application, and workplace competencies related to nail technology. Identify terminology related to nail technology; demonstrate the proper application of nail technology; and exhibit workplace competencies in nail technology.

Industry Based Certification Outcome: Cosmetology Manicurist License


# INFORMATION TECHNOLOGY

## CYBERSECURITY COURSE SEQUENCE

### 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.



### Business Information Management I (BCIS 1305\*/POFI 2301)

**TSI Requirement Waived, Dual Credit Fees Apply**

1 Credit Grades 10-12

Prerequisites: Touch Systems Data Entry, TVCC Admittance

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


**AND**

### Computer Maintenance/Lab (ITSC 1325/ITSC 1305)\*

2 Credits Grades 10-12

Prerequisite: Principles of Info Tech, TVCC Admittance


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.



### Networking (ITNW 1358/ITNW 1325)\*

1 Credit Grades 11-12 Prerequisite: Computer Maintenance/Lab, 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. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.



### Practicum in Information Technology I (ITSY1300/ITSY1342)\*

2 Credits Grades 11-12 Prerequisite: Networking, TVCC Admittance

This course provides opportunities for students to participate in learning experiences that combine 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.

Industry Based Certification Outcome: CompTIA A+, CompTIA IT Fundamentals

\*Required for TVCC's Computer Science Network & Security OSA


# INFORMATION TECHNOLOGY SUPPORT & SERVICES

## COURSE SEQUENCE

### **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.



### **Business Information Management I (BCIS 1305\*/POFI 2301)**

**TSI Requirement Waived, Dual Credit Fees Apply**

1 Credit Grades 10-12

Prerequisites: Touch Systems Data Entry, TVCC Admittance


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

**AND**

### **Computer Maintenance/Lab (ITSC 1325/ITSC 1305)\***

2 Credits Grades 10-12


Prerequisite: Principles of Info Tech, TVCC Admittance  
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.



### **IT Troubleshooting**

1 Credit Grades 11-12 Prerequisite: Computer Maintenance/Lab

The IT Troubleshooting course provides students the opportunity to identify and resolve problems with technology components and equipment. The course focuses on developing a methodical approach in IT troubleshooting and leveraging those skills in a workplace environment. In this course, students will learn and use proven troubleshooting methods and apply those in a collaborative workplace setting. Students will develop personal success skills, including time management and personal accountability measures, strategies for collaboration and teamwork, and effective written and verbal communication skills. The knowledge and skills acquired in the course will allow students to use information technology (IT) resources, information, and data safely, ethically, and following legal guidelines. Students will work within a service level model that helps them to interpret, clarify, and diagnose issues with hardware, software, and networking.



### **Practicum in Information Technology I (ITSY1300/ITSY1342)\***

2 Credits Grades 12 Prerequisite: IT Troubleshooting, TVCC Admittance

This course provides opportunities for students to participate in learning experiences that combine 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.

Industry Based Certification Outcome: CompTIA A+, CompTIA IT Fundamentals, Google IT Support Professional


\*Required for TVCC's PC Support OSA

# NETWORKING SYSTEMS COURSE SEQUENCE

## 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.



## Business Information Management I (BCIS 1305\*/POFI 2301)

**TSI Requirement Waived, Dual Credit Fees Apply**

1 Credit Grades 10-12

Prerequisites: Touch Systems Data Entry, TVCC Admittance

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

**AND**

## Computer Maintenance/Lab (ITSC 1325/ITSC 1305)\*


2 Credits Grades 10-12

Prerequisite: Principles of Info Tech, TVCC Admittance  
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.

## Networking (ITNW 1358/ITNW 1325)\*

1 Credit Grades 11-12 Prerequisite: Computer Maintenance/Lab, 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. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems



## Practicum in Information Technology I (ITSY1300/ITSY1342)\*

2 Credits Grades 11-12 Prerequisite: Networking, TVCC Admittance

This course provides opportunities for students to participate in learning experiences that combine 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.

Industry Based Certification Outcome: CompTIA A+ Certification, CompTIA IT Fundamentals, Google IT Support Professional

\*Required for TVCC's Computer Science Network & Security OSA




# PROGRAMMING & SOFTWARE COURSE SEQUENCE

## **Fundamentals of Computer Science**

1 Credit      Grades 8-12

Fundamentals of Computer Science is the first course for students beginning the study of computer science. Students will learn about computing tools and will be provided opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results.



## **Advanced Computer Science I**

1 Credit      Grades 9 -12      (Category II starting with Class of 2028 and after)

Prerequisites: Principles of Info Tech or Fundamentals of Computer Science/Pre or Corequisite: Algebra I  
Advanced Computer Science I will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve problems. Students will apply computer science concepts, knowledge, and skills to select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. By using computer science knowledge and skills, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will gain an understanding of the six strands of computer science including creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.

Note: This course satisfies a LOTE credit requirement.  
Industry Based Certification Outcome: TBD




## **Advanced Computer Science II**

1 Credit      Grades 10-12      (Category II starting with Class of 2028 and after)

Prerequisites: Algebra I and Computer Science I

In Advanced Computer Science II, students will be introduced to advanced computer science skills and will continue to apply creativity and innovation to design, implement, and present meaningful programs through a variety of media. Students will continue collaborating with peers, their instructor, and various electronic communities to solve problems. Through data analysis, students will continue to identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will apply computer science concepts, knowledge, and skills to select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will expand their understanding and application of the six strands of computer science.


Note: This course satisfies a LOTE credit requirement.  
Industry Based Certification Outcome: TBD



## **Practicum in Information Technology – Programming**

2 Credits      Grades 11 -12      Prerequisite: Computer Science II

This course provides opportunities for students to participate in learning experiences that combine 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.




# WEB DEVELOPMENT COURSE SEQUENCE

## **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.



## **Advanced Computer Science I**


1 Credit      Grades 10 -12      (Category II starting with Class of 2028 and after)

Prerequisites: Principles of Info Tech or Fundamentals of Computer Science/Pre or Corequisite: Algebra I

Advanced Computer Science I will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve problems. Students will apply computer science concepts, knowledge, and skills to select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. By using computer science knowledge and skills, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will gain an understanding of the six strands of computer science including creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.

Note: This course satisfies a LOTE credit requirement.


Industry Based Certification Outcome: TBD



## **Web Design (ITSE 1311)      Category II**

1 Credit      Grades 10-12      Prerequisites: Computer Science I

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



## **Practicum in Information Technology I ( ITSY1300/ITSY1342)\***

2 Credits      Grades 11 -12      Prerequisite: Web Design, TVCC Admittance

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.

Industry Based Certification Outcome: Information Technology Specialist: HTML and CSS



# LAW & PUBLIC SERVICE

## LAW ENFORCEMENT COURSE SEQUENCE

### 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 10-11 Prerequisite: Principles of Law

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.

### Forensic Science

Credit: 1 Grade: 12 Category III

Prerequisites: Biology & Chemistry

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.

Note: This course satisfies a science credit requirement for students on the Foundation High School Program.

### Practicum in Law, Public Safety, Corrections and Security

2 Credits Grade 12

Prerequisite: Law Enforcement II

This course provides opportunities for students to participate in learning experiences that combine classroom instruction with unpaid 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 course 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. A student who successfully completes the end of course/certification exam could work in a variety of occupations, including security guard and personal security agent.

Industry Based Certification Outcome:  
Non-Commissioned Security Officer Level II

AND

# TRANSPORTATION, DISTRIBUTION, & LOGISTICS

## AUTOMOTIVE & COLLISION REPAIR COURSE SEQUENCE

### Principles of Transportation Systems

1 Credit Grades 9-12

In Principles of Transportation Systems, students gain knowledge and skills in the safe application, design, production, and assessment of products, services, and systems. This includes the history, laws and regulations, and common practices used in the transportation industry. This course includes applicable safety and environmental rules and regulations.

### Energy & Power of Transportation Systems

1 Credit Grades 10-12 Prerequisite: Principles of Transportation

This course provides opportunities for students to learn the interactions between various vehicle systems, including engines, transmissions, brakes, fuel, cooling, and electrical. Students will be exposed to logistics concepts including those used to move goods and services to consumers, as well as the components of transportation infrastructure.

Industry Based Certification Outcome:  
ASE 609 Refrigerant & Recovery

### Small Engine Technology I

1 Credit Grades 10-12 Prerequisite: Principles of 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 employment training in the small engine technology industry. Instruction includes the repair and service of cooling, air, fuel, lubricating, electrical, ignition, and mechanical systems. In addition, students will receive instruction in safety, academic, and leadership skills as well as career opportunities.

Industry Based Certification Outcome:  
EETC Principles of Small Engine

OR

### Automotive Technology I

2 Credits Grades 11-12

Prerequisite: Energy & Power or Small Engine

Automotive Technology I includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. Students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. The focus of this course is to teach safety, tool identification, proper tool use, and employability skills..

Industry Based Certification Outcome: NASE Maintenance & Light Repair

### Collision Repair

2 Credits Grades 11-12

Prerequisite: Energy & Power or Small Engine

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 advanced technical skills and practices related to collision repair and refinishing.

OR

### Automotive Technology II

2 Credits Grade 12

Prerequisites: Automotive Technician I .

Automotive Tech II includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. 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..

Industry Based Certification Outcome:  
ASE Brakes, Electrical Systems, Engine Performance, Engine Repair, and Suspension & Steering

### Paint & Refinishing

2 Credits Grades 12

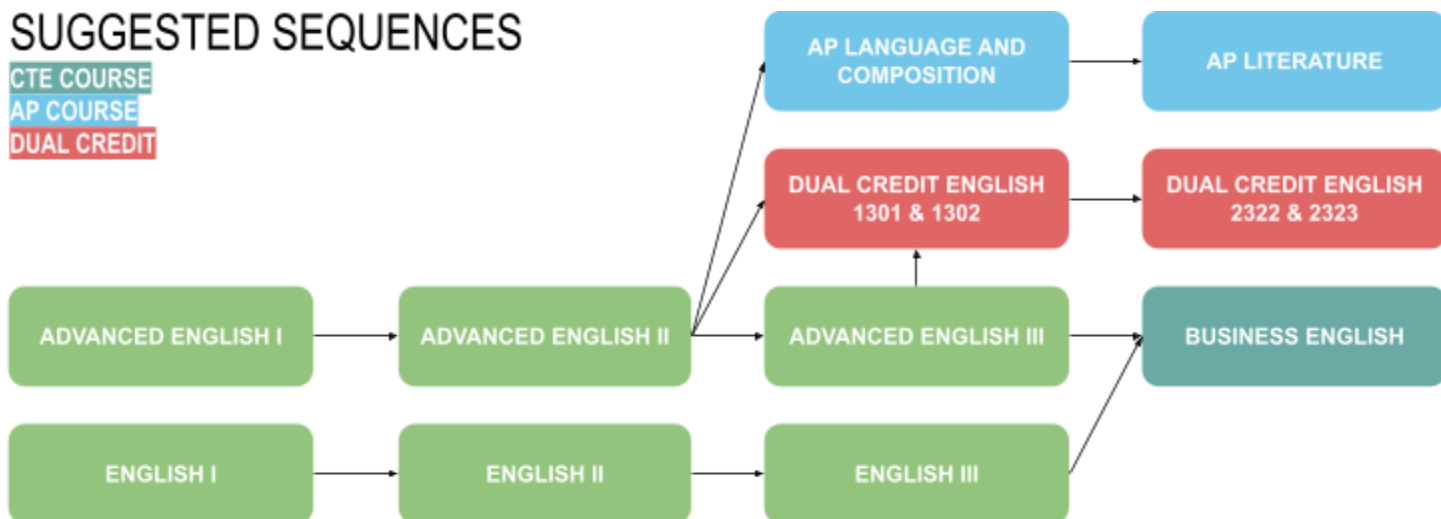
Prerequisite: Collision Repair

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.

# ENGLISH LANGUAGE ARTS

## SUGGESTED SEQUENCES

CTE COURSE  
AP COURSE  
DUAL CREDIT



### English I

1 Credit      Grade 9      Category III

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 II

1 Credit      Grade 10      Prerequisites: English I      Category III

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      Prerequisites: English I      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 III

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)

1 Credit      Grade 11      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: English I, English II      Category I

Prerequisites:

- 10th-grade English teacher recommendation, or a grade of 80 or above in Advanced English II, or a grade of 90 or above in English II,
- English II STAAR passing at MEETS Level or above

Recommended for students interested in careers such as 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.

Semester course: an introductory college-level composition course. Students cultivate their understanding of writing and rhetorical arguments through reading, analyzing, and writing texts as they explore topics like rhetorical situations, claims and evidence, reasoning and organization, and style.

## Business English IV

1 Credit      Grade 12      Prerequisites: English III      Category III

Business English is designed to enhance a student's communication and research skills by applying them to the business environment and includes exchanging information and producing properly formatted business documents using emerging technology.

## AP Literature and Composition

1 Credit      Grade 12      Prerequisites: English III      Category I

Prerequisites:

- 10th-grade English teacher recommendation, or a grade of 80 or above in Advanced English II, or a grade of 90 or above in English II,
- English II STAAR passing at MEETS Level or above

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      Grade 12      Prerequisite: English 1302      Category I

Prerequisites: TVCC admittance TSI

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      Grade 12      Category I

Prerequisite: English 1302 Prerequisites: TVCC admittance TSI

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      Grade 12      Prerequisites: TVCC admittance      Category III

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      Grades 9-12

(one semester course)

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      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 I or Art Appreciation

This course teaches students advanced 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 II

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 III 2D

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 evaluative 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 I or Art Appreciation

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 II 3D

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 III 3D

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 aid 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.

**Studio Art**

1 Credit            Grades 10-12            Prerequisites: Art 1; Art 2 2D or Art 2 3D

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 the AP Studio Art course next year.

## **AP Art History**

1 Credit      Grades 11-12      Prerequisites: W. Geo, World History      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 inter-connections of art-making processes and products throughout history.

## **AP Drawing**

1 Credit      Grades 10-12      Prerequisites: Art 1      Category I

AP Drawing is a college level course taught in high school.

In AP Drawing you'll experiment with a variety of materials and processes as you develop your drawing skills. At the end of the course you'll submit a portfolio that demonstrates the different drawing abilities taught in the course, which include mark-making, line, surface, space, light and shade, and composition. As the course concludes you'll submit a portfolio that demonstrates your ability to practice, experiment, and revise your own work while communicating your ideas about art and design.

## **AP 2-D Art and Design**

1 Credit      Grades 10-12      Prerequisites: Art 1      Category I

In AP 2-D Art and Design you'll develop skills using materials and processes such as graphic design, painting, collage, printmaking, illustration, and others. As the course concludes you'll submit a portfolio that demonstrates your ability to practice, experiment, and revise your own work while communicating your ideas about art and design.

## **AP 3-D Art and Design**

1 Credit      Grades 10-12      Prerequisites: Art 1      Category I

In AP 3-D Art and Design you'll learn how to create art in different disciplines such as sculpture, architectural rendering, metal work, ceramics, and others. At the end of the course you'll submit a portfolio that demonstrates your knowledge of art skills using three-dimensional materials.

# **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: Concurrently enrolled Concert/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      Prerequisites: Director's Approval

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, 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: 2 years Instrumental/Vocal classes      Category I

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 SHOW CHOIR-- I, II, III, IV**

1 Credit      Grades 9-12      Prerequisites: Director's approval, Concurrently enrolled 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 8-12      Prerequisite:

This class is an introduction to the HS theater program. Class members will develop characterization through improvisation and theater games. Students will explore areas of theater including basic acting techniques, technical theater, 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 theater.

## Theatre Arts II

1 Credit      Grades 10-12      Prerequisite: Theater I

"Act well on 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 Theater 1 stressing basic acting techniques and play production.

## Technical Theatre I

1 Credit      Grades 10-12      Prerequisite:

"Lights come up." This is a continuation of the technical aspects of theater 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.

## Theater Production I

1 Credit      Grades 11-12      Prerequisites: Theater 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 theater. Participation in departmental productions and competitions are requirements. Students will leave with an 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 theater. Students will leave class with a resume, audition pieces, and knowledge of necessary audition materials. Course can be done through independent study.

# OTHER FINE ART ELECTIVES

## Floral Design

1 Credit      Grades 10-12      Prerequisites: Principles of Ag

Floral Design develops 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. The required end of course/certification exam will test students' knowledge of the floral industry, common terms associated with daily floral tasks and identify common tools and plants used in the floral industry.

## **Dance**

1 Credit      Grades 9-12

Provides an overview of movement for the stage for students wishing to learn a wide variety of dance techniques. 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 techniques. 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

# **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 III

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 8-11      Category II

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      Category III      Prerequisites: Completion of Spanish I

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      Category II      Prerequisites: Completion of Spanish I with grade of 80 or higher.

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    Category II      Prerequisites: Completion of Spanish II with grade of 80 or higher.

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 Spanish culture and history. Semester Projects are required. Students completing this course should be well-prepared to enter into a college level Spanish

### **SPAN 1411 Beginning Spanish (Dual Credit)**

0.5 Credit      Grades 10-12    Category 1      Prerequisites: Completion of Spanish I with grade of 80 or higher. Lab fee.

Basic Spanish language skills in listening, speaking, reading and writing within a cultural framework. Students will acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the beginner level.

### **AP Spanish IV**

1 Credit      Grades 11-12    Category I      Prerequisites: Completion of Spanish III.

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 Spanish culture and history. Semester Projects are required. Students completing this course should be well-prepared to enter into a college level Spanish classroom.

### **SPAN 1412 Beginning Spanish II (Dual Credit)**

0.5 Credit      Grades 10-12    Category 1      Prerequisite: Completion of Span1411

Continued development of basic Spanish language skills in listening, speaking, reading and writing within a cultural framework. Students acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the high beginner to low intermediate level.

### **Advanced Computer Science I**

1 Credit      Grades 9 -12      (Category II starting with Class of 2028 and after)

Prerequisites: Principles of Info Tech or Fundamentals of Computer Science/Pre or Corequisite: Algebra I

Advanced Computer Science I will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve problems. Students will apply computer science concepts, knowledge, and skills to select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. By using computer science knowledge and skills, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will gain an understanding of the six strands of computer science including creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.

### **Advanced Computer Science II**

1 Credit      Grades 10-12      (Category II starting with Class of 2028 and after)

Prerequisites: Algebra I and Computer Science I

In Advanced Computer Science II, students will be introduced to advanced computer science skills and will continue to apply creativity and innovation to design, implement, and present meaningful programs through a variety of media. Students will continue collaborating with peers, their instructor, and various electronic communities to solve problems. Through data analysis, students will continue to identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will apply computer science concepts, knowledge, and skills to select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will expand their understanding and application of the six strands of computer science.

# 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 courses.

## **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 names 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**

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 coworkers, 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**

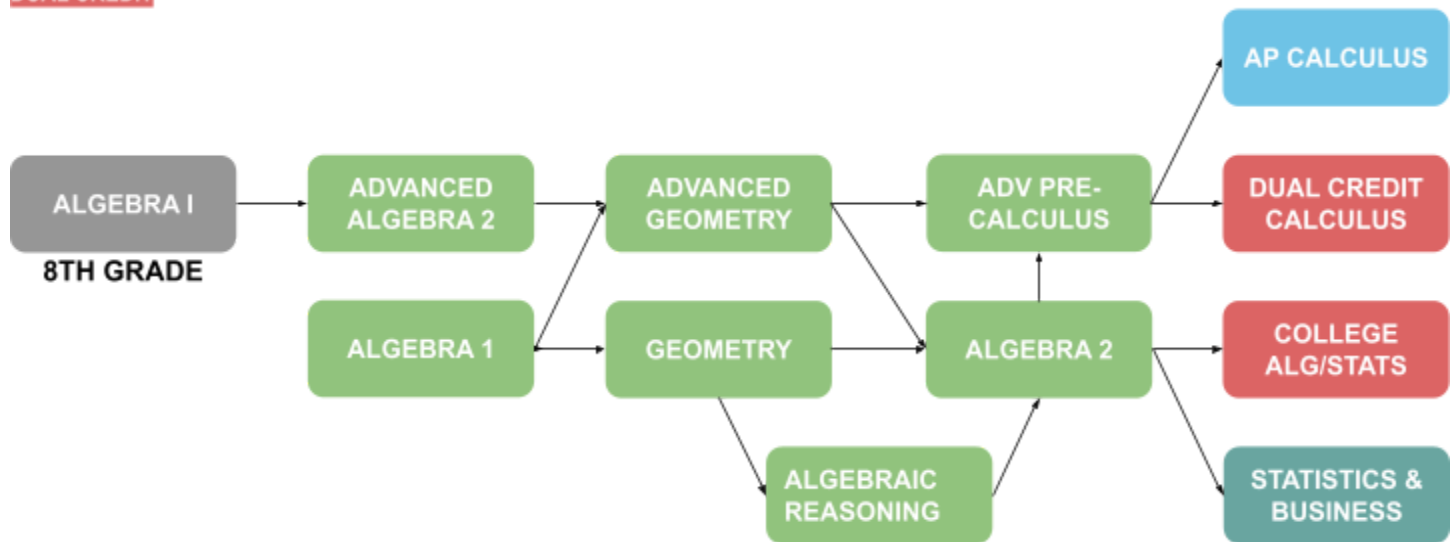
1 credit          Grade 12

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 learning component. Instruction will support students with marketable skills attainment. The course is recommended for students 16 years of age and older.

# MATHEMATICS

## SUGGESTED SEQUENCES

CTE COURSE  
AP COURSE  
DUAL CREDIT



### Algebra I

1 Credit – Grade 8-9 STAAR (EOC)

Grade 9 Category III

Grade 8 Category II

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)

Category III

Prerequisite: Algebra I

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

Category II

Prerequisite: Algebra I

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    Category III      Prereqs: Algebra I, Geometry. Students failing the Algebra 1 EOC math exam must take this course.

Mathematical Models offer 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 nonmathematical situations. Placement in this course is by committee.

## Algebra II

1 Credit      Grades 10-12    Category III      Prerequisites: Algebra I.

Algebra II required for students in 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      Category II      Prerequisites: Advance Algebra I

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 Advanced Precalculus or AP Statistics. All Advanced courses are designed to promote higher-level thinking skills, vocabulary expansions, and a transfer of knowledge for a successful progression into the AP program.

## Algebraic Reasoning

1 Credit      Grade 10-12      Category III      Prerequisites: Algebra I and Geometry

In Algebraic Reasoning, students will build on the knowledge and skills for mathematics from Algebra I, continue with the development of mathematical reasoning related to algebraic understandings and processes, and deepen a foundation for studies in subsequent mathematics courses. Students will broaden their knowledge of functions and relationships, including linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value, and logarithmic functions. Students will study these functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build workforce and college readiness such as probes, measurement tools, and software tools, including spreadsheets.

## Precalculus

1 Credit      Grade 11-12    Category III      Prerequisites: Algebra II & Geometry

Precalculus includes all objectives in Precalculus but extends higher level critical thinking skills through an accelerated pace and a more difficult, expanded curriculum. 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.

## Advanced Precalculus

1 Credit      Grade 11-12    Category II      Prerequisites: Advanced Algebra II & Advanced Geometry

Advanced Precalculus includes all objectives in Precalculus but extends higher level critical thinking skills through an accelerated pace and a more difficult, expanded curriculum. Designed for students who have completed Advanced Algebra II. Students will extend their level of mathematical skills and reasoning beyond the topics covered in Precalculus. Some topics include functions (linear, quadratic, polynomial, exponential, logarithmic, etc.), and basic trigonometry. This course should be effective in preparing students for taking AP Calculus or College Algebra and preparing students for ACT, SAT, THEA and other standardized exams.

**Calculus 1 (Dual Credit Math 2413)**

1 Credit      Grade 12      Category I      Prerequisites: Pre-AP Pre-Calculus, TVCC admittance

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.

**Calculus II (Dual Credit Math 2414)**

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

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.

**College Algebra (Dual Credit Math 1314)**

1 Credit      Grade 12      Category I      Prerequisites: TVCC admittance

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      Category I      Prerequisites: 85 or above in Advanced Pre-Calculus.

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

**Accounting II (Dual Credit ACNT 1303/1313)**

1 Credit      Grade 11      Prerequisites: Accounting I, TVCC Admittance  
(Category 1 starting with Class of 2028 and after)

In Accounting II, students 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.

**Statistics & Business Decision Making**

1 Credit      Grade 12      Prerequisites: Algebra II      Category III

This course introduces students to statistics and provides opportunities for the application of statistics to the business decision making process. The course includes life applicable math scenarios and concepts appropriate for business and personal financial decision making.

**College Preparatory Course: Transition to College Mathematics**

1 Credit      12th Grade      Category III

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.

# 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.



## **AP Research Course**

1 Credit      Grade 11      Prerequisite: AP Seminar      Category I

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 performances or exhibitions of products 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©.

## **Digital Design and Media Production**

1 Credit      Grades 7 & 8

In Digital Design and Media Production students demonstrate creative thinking, develop innovative strategies, and use communication tools in order to work effectively with others as well as independently to produce and broadcast announcements. Students will gather information, problem solve, and make informed decisions regarding scripts, filming, editing, and broadcasting.

## **Dollar and Sense**

0.5 Credit      Grade 9-12

Using Dave Ramsey’s Financial Literacy curriculum, Dollars and Sense focuses on consumer practices and responsibilities, money- management processes, and financial decision-making skills.

## **Lifetime Nutrition and Wellness**

0.5 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, education and training, human services, and health sciences.

## **Photojournalism**

0.5 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. Students will learn to edit in Adobe Photoshop and Premiere Pro. There is a strong emphasis on preparing students for joining the newspaper and/or broadcasting programs

## **Reading Invention**

1 Credit      Grades 9-12

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 Aides**

1 Credit      Grade 12      (Local Credit)      Prerequisites: Principal approval required

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.

## **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.

### **Touch System Data Entry**

0.5 Credit      Grade 7

In Touch System Data Entry students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment.

### **Wildlife, Fisheries, & Ecology Management**

1 Credit      Grades 7 & 8

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.

## **PHYSICAL EDUCATION & ATHLETICS**

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**

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 Credit      Grades 9-12      Prerequisites: 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, power- lifting, and soccer. A student who quits a sport will not be allowed in another sport until the sport they quit is complet- ed. 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    Prerequisite: 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.

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

1 Credit            Grade 9-12       Prerequisites: Try-outs

Cheerleaders are expected to perform at athletic events and functions throughout the school year. Tryouts are held during the spring term of the preceding year. Uniforms are required and summer cheerleading camp is mandatory. The first year a student successfully completes cheerleading they will receive one PE credit substitution. Each subsequent year they will receive local credit.

### **Varsity Drill Team I, II, III, IV**

1 Credit            Grades 9-12       Prerequisites: Tryouts

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

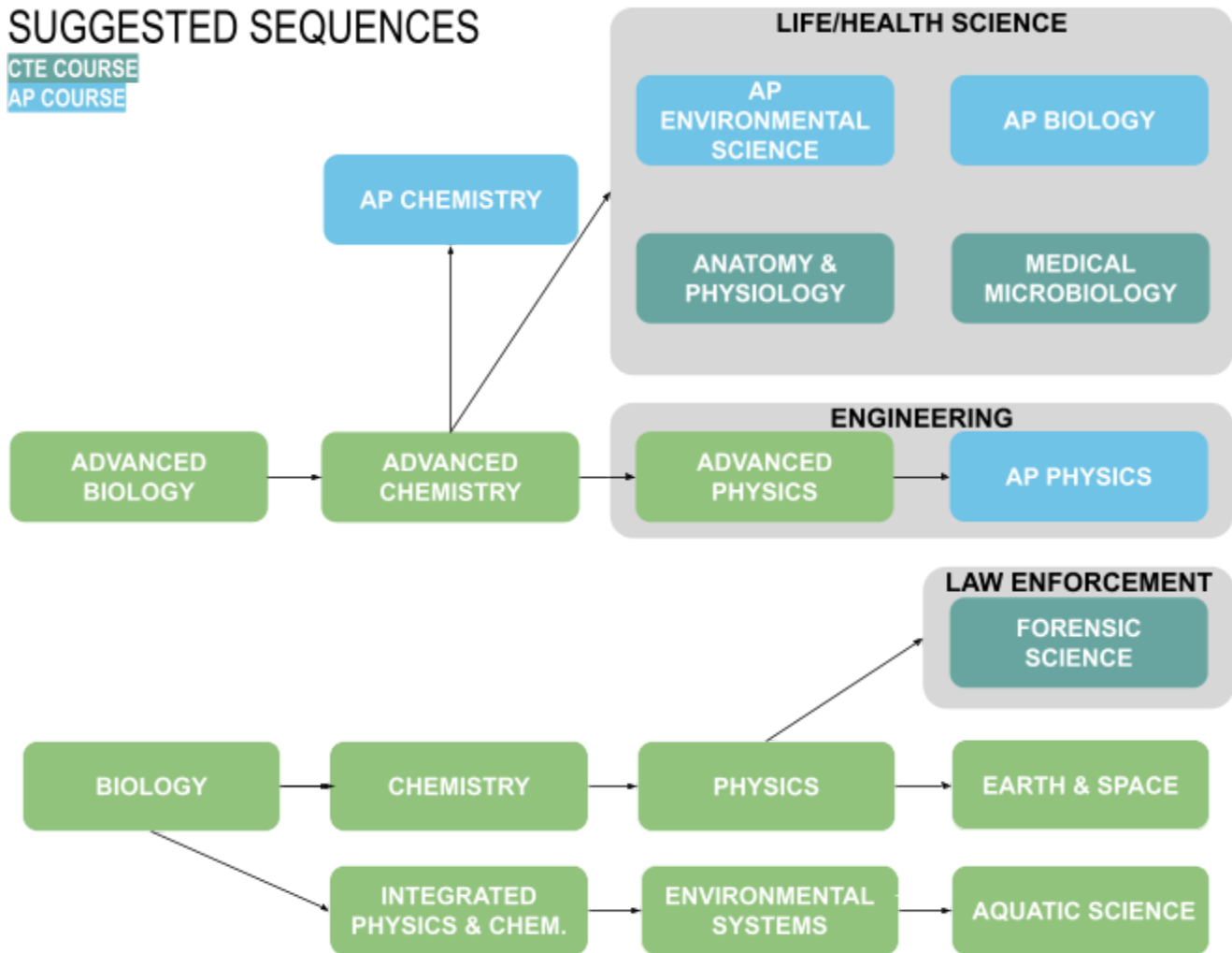
Provides an overview of movement for the stage for students wishing to learn a wide variety of dance techniques. Students will be exposed to basic technique in ballet, modern, jazz, and tap and develop anatomical awareness that is pervasive throughout their lives. Gaining movement skills and finding 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 satisfies a Physical Education or Fine Art credit requirement

# SCIENCE

## SUGGESTED SEQUENCES

CTE COURSE  
AP COURSE



### Integrated Physics and Chemistry (IPC)

1 Credit

Grade 10-12

Category III

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 III

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 9-12      Category II

Advanced 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 (Dual Credit: BIOL-1406/1407)**

2 Credits    Grade 11-12      Prerequisites: TVCC Admittance (TSI)      Category I

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 10      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. Advance 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 III

Chemistry is the study of matter including the physical changes that matter undergoes. Also included are bonding of atoms, energy in- volved 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 III

In Physics students study various forms of energy and how to meas- ure 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 II

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 III

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 III

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 III

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: 12      Prerequisites: Biology & Chemistry      Category III

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      Grade: 11-12    Prerequisites: Biology I & a 2nd science.      Category III

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

## **AP Chemistry**

1 Credit      Grades 11-12    Prerequisites: Advance 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    Prerequisites: 80 or above in Advanced Biology, 90 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, Biomedical 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.

## **Advanced Medical Microbiology**

1 Credit      Grade 12      Category I (Category II starting with Class of 2028 and after)

Prerequisites: Biology and Chemistry

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

## **Advanced Animal Science (AGRI 1419/AGRI 1131) Dual Credit Fees Apply, TSI**

1 Credit      Grades 11-12    Category I

Prerequisites: Biology and Chemistry or IPC and Chemistry; Algebra I & Geometry; and either Small Animal Management, Equine Science or Livestock Production

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.

## **Advanced Plant and Soil Science**

1 Credit      Grades 12      Category II      Prerequisites: Biology, IPC and Chemistry, Chemistry, or Physics and a minimum of one credit from courses in the Agriculture, Food, and Natural Resources Career Cluster

Advanced Plant and Soil Science provides an opportunity for students to learn about the natural world. Students learn how plant and soil science has influenced a vast body of knowledge, applications yet to be discovered, and that plant and soil science is the basis for many other science fields. The end of course/certification exam verifies students have acquired the knowledge and skills necessary to excel in a variety of plant, natural and environmental science related fields and are prepared to play a vital role in ensuring agricultural productivity.

## **Engineering Science (PLTW2)**

1 Credit      Grades 10-12      Category I      Prerequisite: PLTW1, Algebra I & Biology, IPC & 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 & Problem Solving**

1 Credit      Grade 12      Category I      Prerequisites: PLTW3

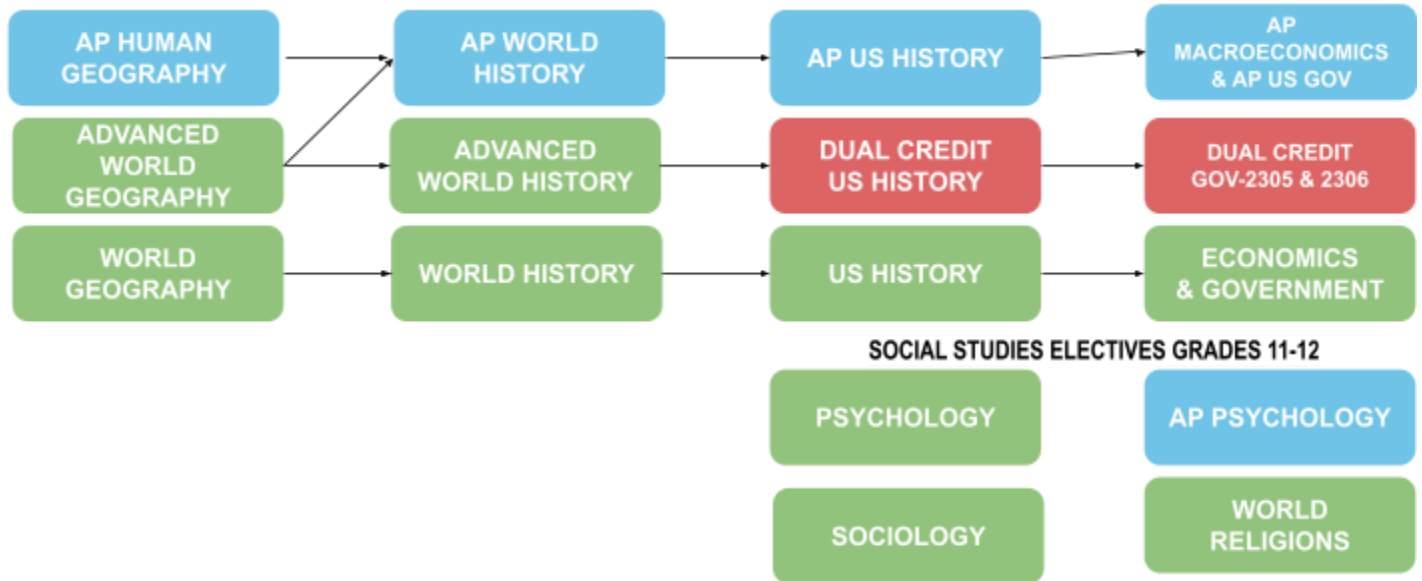
Engineering Design is the creative process of solving problems by identifying needs and devising solutions, ranging from products to processes. It involves understanding limiting factors or "design under constraint." This course integrates skills from previous math and science courses, emphasizing problem-solving with real-world applications. Students apply critical thinking to justify solutions and explore career opportunities in engineering. The course stimulates ingenuity, intellectual talents, and practical skills in solving engineering design problems. Using the engineering design process cycle, students investigate, design, plan, create, and evaluate solutions while considering social and ethical implications of technological development.



# SOCIAL STUDIES

## SUGGESTED SEQUENCES

CTE COURSE  
 AP COURSE  
 TVCC DUAL CREDIT



### World Geography

1 Credit      Grade 9      Category III

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.

### Advanced World Geography

1 Credit      Grade 9      Category II

Advanced 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 advanced 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 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.

## **World History**

1 Credit      Grade 10      Category III

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 II

The purpose of the Advance 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 Advance 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      Category I      Prerequisite: AP Human Geography

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 (STAAR EOC)**

1 Credit      Grade 11      Category III      STAAR (EOC)

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 (STAAR EOC)**

1 Credit      Grade 11      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.

### **United States History to 1877 (Dual Credit US HIS-1301)**

0.5 Credit      Grade 11      Category I      Prerequisites: TVCC admittance & TSI

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.

### **United States History from 1877 (Dual Credit US HIS-1302) (STAAR EOC)**

0.5 Credit      Grade 11      Category I      Prerequisites: TVCC admittance & TSI

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**

0.5 Credit    Grade 12      Category IV      Prerequisites: US History, World Geography and World History

In the US Government, the focus is on the principles, beliefs, and structure of the U.S. government at national, state, and local levels. This course builds on civic concepts studied from Kindergarten through secondary courses, exploring major political ideas, the U.S. Constitution, and key concepts like republicanism and federalism. Students compare the U.S. system with others, analyze the role of government in the free enterprise system, and assess the impact of individuals, parties, and media on politics. The course emphasizes the importance of voluntary participation in a democratic society and examines the link between government policies and U.S. culture.

### **Economics**

0.5 Credit      Grade 12      Category III      Prerequisites: US History, W. History and World Geography

Economics with Emphasis on the Free Enterprise System explores principles of production, consumption, and distribution in the U.S. and globally. Students analyze consumer and business rights, study supply and demand dynamics, and examine the role of financial institutions. The course covers business ownership, market structures, and consumer economics. Factors impacting the national economy are explored, including geography, government, philosophical ideas, societal values, and technological innovations. Students apply critical thinking skills to create economic models and understand economic patterns. This course builds on foundations in citizenship, economics, and other social studies areas, fostering an understanding of patriotism, functioning in a free enterprise society, and appreciating democratic values of our state and nation as referenced in the Texas Education Code, §28.002(h).

### **AP United States Government & Politics**

0.5 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 U.S. government and politics. It covers general concepts and specific case studies, requiring familiarity with institutions, groups, beliefs, and ideas shaping U.S. political reality. Topics include Constitutional Underpinnings, Political Beliefs, Parties, Interest Groups, Mass Media, National Government Institutions, Public Policy, and Civil Rights. Successful completion may lead to college credit through the Government Advanced Placement Exam.

### **AP Macroeconomics**

0.5 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.

**Texas Government (Dual Credit: GOVT-2305)**

0.5 Credit      Grade 12      Category I      Prerequisites: TVCC admittance TSI

Study of the United States and Texas Constitutions, civil liberties, federalism, interest groups, public opinion, political parties, voting and elections (satisfies requirements for Texas State Teacher Certification.)

**Texas Government (Dual Credit GOVT-2306)**

0.5 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.

**Economics (Dual Credit ECON-2301)**

0.5 Credit      Grade 12      Category I      Prerequisites: TVCC admittance TSI

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**

0.5 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 of human development, personality, motivation, and learning.

**Sociology**

0.5 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.

**World Religions**

1 Credit      Grades 11-12      Prerequisite-World History      Category III

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. Transportation, Distribution, & Logistics

# SPEECH

## AP Seminar

1 credit      Grade 10      Category I

AP Seminar is a foundational cross-curricular course where students explore academic and real-world topics by analyzing diverse perspectives. They practice reading, analyzing texts, listening to speeches, and experiencing artistic works. Students synthesize information, develop research-based essays, and deliver presentations individually and as a team. Various assessments contribute to earning an Advanced Placement Exam score. A score of 3 or higher in AP Seminar and AP Research grants the AP Seminar and Research Certificate©, signifying college-level academic and research skills. Additionally, a score of 3 or higher in four more AP Courses leads to the AP Capstone Diploma©. Note: This course cannot be dropped until semester.

## Professional Communication

0.5 Credit      Grade 9-12

This class is designed to prepare students for effective communication practices in the professional environment by developing interpersonal and intrapersonal skills. Students will prepare and present various oral and written assignments to fulfill the requirements outlined by the Texas State Board of Education. The course covers verbal, written, and electronic communication used in various situations, but especially in a professional setting. As rapidly as corporate systems are evolving, they continue to demand strong leadership skills, verbal and non-verbal skills, listening skills and critical thinking; this course will facilitate the beginning of a life-long ability to serve as a competent communicator in the ever-changing professional environment.

## 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

# 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

PROGRAMS FOR CAREER AND COLLEGE SUCCESS

## **AGRICULTURE, FOOD & NATURAL RESOURCES**

Agriculture Technology & Mechanical Systems - Welding

Animal Science

Plant Science

## **ARCHITECTURE & CONSTRUCTION**

Carpentry

## **BUSINESS, MARKETING & FINANCE**

Accounting and Financial Service

Business Management

Entrepreneurship

Marketing Sales

## **EDUCATION & TRAINING**

Teaching & Training

## **ENGINEERING**

Engineering Foundations

## **HEALTH SCIENCE**

Diagnostic & Therapeutic Services

Exercise Science, Wellness, & Restoration

Nursing Science

## **HOSPITALITY**

Culinary Arts

## **HUMAN SERVICES**

Cosmetology

Esthetician

Nail Tech

## **INFORMATION TECHNOLOGY**

Cybersecurity

Information Technology Support and Services

Networking Systems

Programming and Software

Web Development

**LAW & PUBLIC SERVICE**

Law Enforcement

**TRANSPORTATION, DISTRIBUTION AND LOGISTICS**

Automotive and Collision Repair



# 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 the 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 OFFERINGS & CROSSWALK

Grade	Semester	High School Course	Course-No.	College Course	College Credit	Core Complete Component
10+	S1	Accounting I	ACNT-1303	Introduction to Accounting I.		
10+	S2	Accounting I	ACNT-1304	Introduction to Accounting II.		
11+	S1	Accounting II	ACNT-1311	Introduction to Computerized Accounting.		
11+	S2	Accounting II	ACNT-1313	Computerized Accounting Applications.		
10+	S2	Livestock Production	AGAH-1353	Beef Cattle Production.		
11	S1	Vet Med Applications	AGAH-1447	Animal Reproduction.		
10+	S1	Livestock Production	AGAH-2313	Principles of Feeds and Feeding.		
11+	S1	Equine Science	AGEQ-1411	Equine Science I.		
12	S2	Advanced Animal Science	AGRI-1131	The Agricultural Industry.		
12	S1	Advanced Animal Science	AGRI-1419	Introductory Animal Science.	4	030 - Life and Physical Sciences or 090 - Component Area Option
11+	S2	Vet Med Applications	AGRI-2321	Livestock Evaluation.		
10+	S1	Business Info. Management	BCIS-1305	Business Computer Information Systems	3	090 - Component Area Option
11+	S1	Biology	BIOL-1406	Biology for Science Majors I.	4	030 - Life and Physical Sciences or 090 - Component Area Option
11+	S2	Biology	BIOL-1407	Biology for Science Majors II.	4	030 - Life & Physical Sciences or 090 - Component Area Option
11+	S1	Business Law	BUSI-1301	Business Principle.		
11+	S2	Business Law	BUSI-2301	Business Law.		
12	S2	Nail Care Enhance.	CSME-1430	Orientation to Nail Technology.		
12	S2	Cosmetology II & Lab	CSME-1443	Manicuring and Related Theory.		
12	S2	Economics	ECON-2301	Principles of Macroeconomics.	3	080 - Social & Behavioral Sciences
11+	S1	English III	ENGL-1301	Composition I.	3	010 - Communication
11+	S2	English III	ENGL-1302	Composition II.	3	010 - Communication
12	S1	English IV	ENGL-2322	British Literature I.	3	040 - Language, Philosophy & Culture
12	S2	English IV	ENGL-2323	British Literature II.	3	040 - Language, Philosophy & Culture
12	S1	United States Government	GOVT-2305	Federal Government	3	070 - Government/Political Science
12	S2	Texas Government (Local)	GOVT-2306	Texas Government	3	070 - Government/Political Science
11	S1	United States History	HIST-1301	United States History II	3	060 - American History
11	S2	United States History	HIST-1302	United States History I	3	060 - American History
11+	S1	Health Science Theory & Lab	HPRS-1105	Essentials of Medical Law/Ethics for Health Professionals		
11+	S1	Practicum of Nursing II	HPRS-1105	Essentials of Medical Law/Ethics for Health Professionals		
10+	S2	Networking & Lab	ITNW-1325	Fundamentals of Networking Technologies		
11+	S1	Networking & Lab	ITNW-1358	Network+		
10+	S1	Computer Maintenance & Lab	ITSC-1305	Introduction to PC Operating Systems	3	
10+	S2	Computer Maintenance & Lab	ITSC-1325	Personal Computer Hardware	3	
		Web Design	ITSE-1311	Beginning Web Programming.		
12	S1	Practicum in Information Tech	ITSY-1300	Fundamentals of Information Security		
12	S2	Practicum in Information Tech	ITSY-1342	Information Technology Security		
11+	S1	Algebra 1	MATH-1314	College Algebra.	3	020 - Mathematics or 090 - Component Area Option
12	S2	Statistics	MATH-1342	Elementary Statistical Methods.	3	020 - Mathematics or 090 - Component Area Option
12	S1	Calculus I	MATH-2413	Calculus I.	4	020 - Mathematics or 090 - Component Area Option
12	S2	Calculus II	MATH-2414	Calculus II.	4	020 - Mathematics or 090 - Component Area Option
10+	S1	Medical Terminology	MDCA-1313	Medical Terminology		
11+	S2	Practicum of Nursing II	MDCA-1317	Essentials of Medical Law/Ethics for Health Professionals		
11+	S2	Health Science Theory & Lab	MDCA-1317	Procedures in a Clinical Setting		
11+	S2	Practicum of Nursing I	NURA-1160	Clinical, Nursing Assistant/Aide & Patient Care Asst/Aide.		
11+	S1	Practicum of Nursing I	NURA-1401	Nurse Aide for Health Care		

12	S2	Medical Terminology	NURA-1407			
10+	S2	Business Info. Management	POFI-2301	Word Processing.		
10+	S1	Spanish II	SPAN-1411	Beginning Spanish I.		
10+	S2	Spanish II	SPAN-1412	Beginning Spanish II.		
12	S1	Practicum in Agricultural, Food & Natural Resources	WLDG-1202	Fundamentals of Gas Metal Arc Welding (gmaw)	2	
12	S2	Practicum in Agricultural, Food & Natural Resources	WLDG-1206	Fundamentals of Gas Tungsten Arc Welding (gtaw)	2	
10+	S2	Agricultural Mechanics & Metal Technologies	WLDG-1317	Introduction to Layout and Fabrication.		
10+	S1	Agricultural Mechanics & Metal Technologies	WLDG-1323	Welding, Safety, Tools, and Equipment.		
11+	S1	Agricultural Structures Design & Fabrications	WLDG-1353	Intermediate Layout and Fabrication.		
12	S2	Agricultural Structures Design & Fabrications	WLDG-1407	Introduction to Welding Using Multiple Processes.		
11+	S1	Agricultural Structures Design & Fabrications	WLDG-1428	Introduction to Shielded Metal Arc Welding (smaw).		
12	S1	Practicum in Agricultural, Food & Natural Resources	WLDG-1430	Introduction to Gas Metal Arc Welding (gmaw).		
11+	S2	Agricultural Structures Design & Fabrications	WLDG-1457	Intermediate Shielded Metal Arc Welding (smaw).		
12	S2	Practicum in Agricultural, Food & Natural Resources	WLDG-2443	Advanced Shielded Metal Arc Welding (smaw).		

This crosswalk serves as a guide for identifying dual credit courses that align with the Texas Higher Education Coordinating Board's Texas Core Curriculum (TCC). The TCC, comprising 42 Semester Credit Hours (SCH), forms the foundational curriculum for undergraduate students across Texas public higher education institutions. Its aim is to equip students with the necessary knowledge and skills for success in college, career, community, and life. The TCC consists of nine Foundational Component Areas (FCA), with an additional Component Area Option (CAO) that allows students to select supplementary courses from the other FCAs. Presented below are Mabank ISD's course offerings tailored to support students in fulfilling the TCC requirements through coursework available at any of the TVCC Campuses.

# 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 prospective 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 the 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.

# COLLEGE READINESS & OTHER TESTING INFORMATION

## **TSIA2 - Texas Success Initiative**

- Students must take the TSI to be eligible to take any core subject dual credit classes.
- Students may be TSI exempt with PSAT/SAT qualifying scores
- Fees may apply
- Offered at MHS
  - November 2024 &
  - March 2025

## **SAT- Scholastic Aptitude Test**

- Recommended grades 11-12
- Use Test Center Code: 44661 to register at <https://satsuite.collegeboard.org/sat/registration>
- Fees may apply
- Offered at MHS October & March

## **ACT - American College Testing**

- Use Center Code 220190 to register at <https://www.act.org>
- Fees may apply

## **PSAT - Pre Scholastic Aptitude Test**

## **ASVAB - Vocational Aptitude Battery**

- Open to Grades 10-12
- Suggest for students interested in possible enlistment OR career interest assessment
- Offered at MHS in October