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

GRADUATION PLANS

Students entering high school in 2014-2015 and beyond.

DISCIPLINE	FOUNDATION	FOUNDATION + ENDORSEMENT	DISTINGUISHED LEVEL OF ACHIEVEMENT + ENDORSEMENT
ENGLISH	**4 Credits** English I English II English III An Advanced Course	**4 Credits** English I English II English III An Advanced English Course	**4 Credits** English I English II English III An Advanced English Course
MATH	**4 Credits** Algebra I Geometry Two additional math courses	**4 Credits** Algebra I & Geometry Algebra II An advanced math credits	**4 Credits** Algebra I Geometry Algebra II An advanced math course
SCIENCE	**4 Credits** Biology IPC an advanced science Two additional science courses	**4 Credits** Biology IPC, Chemistry or Physics Two advanced science credits	**4 Credits** Biology Chemistry Physics An advanced science course
SOCIAL STUDIES	**4 Credits** World Geography World History U.S. History Government/Economics	**4 Credits** World Geography World History U.S. History Government/Economics	**4 Credits** World Geography World History U.S. History Government/Economics
PHYSICAL EDUCATION	**1 Credit**	**1 Credit**	**1 Credit**
LANGUAGES OTHER THAN ENGLISH	**2 Credits in the same language** Spanish or Computer Science	**2 Credits in the same language** Spanish or Computer Science	**2 Credits in the same language** Spanish or Computer Science
FINE ARTS	**1 Credit**	**1 Credit**	**1 Credit**
SPEECH	**0.5 Credit**	**0.5 Credit**	**0.5 Credit**
TECHNOLOGY	**1 Credit**	**1 Credit**	**1 Credit**
ELECTIVES	**4.5 Credits**	**4.5 Credits**	**4.5 Credits**
TOTAL	**26**	**26**	**26**

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

GRADUATION REQUIREMENTS & INFORMATION

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:

1. Algebra I
2. English I
3. English II
4. Biology
5. U.S. History.

GRADE CLASSIFICATION

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

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

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

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

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

COURSE SELECTION SPECIFICS

AP COURSE SPECIFICS

What are Pre-AP and AP courses?

Pre-AP 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. Pre-AP courses are designed to better prepare students for Advanced Placement (AP), but are not a requirement for enrolling in Advanced Placement courses. Pre-AP and AP are not “all or nothing.” Students may take one to all of their core classes as Pre-AP/AP.

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

Are Pre-AP/AP courses right for my students?

A student successful in Pre-AP 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 Pre-AP and AP courses?

There are no specific testing prerequisites or criteria that must be met for placement in Pre-AP 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 Pre-AP/AP Course Contract

Pre-AP/AP English (recommend that students meet both criteria):

- STAAR Reading scores of at least “Meets”
- A final grade in the last English course of 85 or higher for Pre-AP courses or 90 or higher for regular courses.

Pre-AP/AP Math (recommend that students meet both criteria):

- STAAR Mathematics scores of at least “Meets”
- A final grade in the last Math course of 85 or higher for Pre-AP courses or 90 or higher for regular courses.

Pre-AP/AP Science (recommend that students meet both criteria):

- STAAR Science scores of at least “Meets”
- A final grade in the last Science course of 85 or higher for Pre-AP courses or 90 or higher for regular courses.

Pre-AP/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 85 or higher for Pre-AP courses or 90 or higher for regular courses.

While we expect students to be very successful in Pre-AP 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.

Pre-AP and Advanced Placement Exit Criteria:

Students will be exited from an Pre-AP/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 PRE-AP 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 Pre-AP 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 semes- ters. 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 62. 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

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 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 3rd 9 weeks grading period of the senior year with exception of Dual Credit Courses. Dual Credit GPA will end at the 1st Semester of their senior year. Dual Credit GPA 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	Pre-AP/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, AND 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.

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.

AND

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

OR

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

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

OR

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. The 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. The point system applies.

Practicum in Agriculture, Food, and Natural Resources (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. The 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.

OR

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.

dustry Based Certification Outcome: TBD

Advanced Plant and Soil Science
1 Credit Grades 11-12 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 Agricu , 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

Practicum in Agriculture, Food, and Natural Resour orticulture/Floral
OR
1 Credits Grade 12 Prerequisite: Horticulture S
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 Grades 11-12 (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.

.Entrepreneurship
1 Credit Grades 10-12
Prerequisite: Principles of Business
In this course, 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.

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

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 and spreadsheet manipulation.

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

Statistics & Business Decision Making
1 Credit Grade 11-12 Category lll 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 this course, 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.

Industry Based Certification Outcome:
Entrepreneurship & Small Business

AND

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.

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 11-12 Category lll 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.

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.

Entrepreneurship
1 Credit Grades 10-12
Prerequisite: Principles of Business
In this course, 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.

Industry Based Certification Outcome:
Entrepreneurship & Small Business

AND

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.

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 11-12 Category lll 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 student's 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 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 & Architectures, 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: PLTW 3
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.

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.

Advanced Medical Microbiology
1 Credit Grade 11-12
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.

AND

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

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.

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

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.

AND

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.

ndustry Based Certification Outcome:
Certified Nursing Assistant
*Required for TVCC's CNA Occupational Skills Award

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.

AND

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.

ndustry Based Certification Outcome:
Certified Clinical Medical Assistant
*Required for TVCC's CCMA Certificate

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

Microbiology and Safety for Cosmetology Careers
1 Credit Grade 11
In this course students will receive instruction in the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, identification of microorganisms, drug resistant organisms, and emerging diseases. Students will explore and apply concepts as they apply to the safety and health of individuals.

AND

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
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

Microbiology and Safety for Cosmetology Careers
1 Credit Grade 11
In this course students will receive instruction in the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, identification of microorganisms, drug resistant organisms, and emerging diseases. Students will explore and apply concepts as they apply to the safety and health of individuals.

AND

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

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.

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.

AND

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.

Industry Based Certification Outcome:
Cosmetology Esthetician 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 focus- ing on word processing, spreadsheets, databases, telecommunications, desktop publishing, presentation management, net- working, operating systems, and emerging technologies; and develops intermediate-level skills.

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 focus- ing on word processing, spreadsheets, databases, telecommunications, desktop publishing, presentation management, net- working, 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 focus- ing on word processing, spreadsheets, databases, telecommunications, desktop publishing, presentation management, net- working, 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.

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 fosters 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 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 this course, 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. 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 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

AP Computer Science Principles
1 Credits Grades 11 -12
Category I
Prerequisite: Computer Science II
In this course, students will learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. Students will incorporate abstraction into programs and use data to discover new knowledge. Students will also explain how computing innovations and computing systems, including the Internet, work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical. This course provides students with a broad introduction to computer science and how it relates to other fields.

OR

AP Computer Science A
1 Credits Grades 11 -12
Category I
Prerequisite: Computer Science II
AP Computer Science A introduces students to computer science through programming. Fundamental topics include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language.

OR

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. 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 8 -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 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

Web Design (ITSE 1311)
1 Credit Grades 10-12 Category II 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 prac- ticed 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.

AND

Practicum in Law, Public Safety, Corrections an… 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

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

OR

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

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

OR

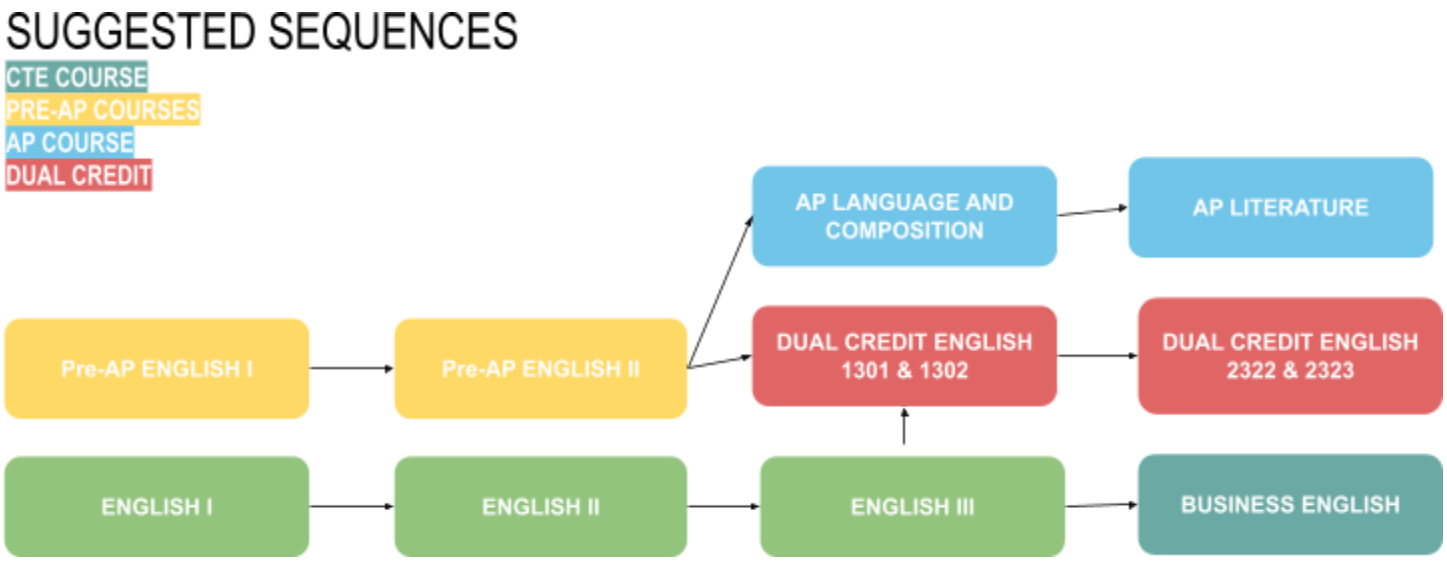
Collision Repair
2 Credits Grades 11-12
Prerequisite: Energy & Power or Small Engine
Collision repair and refinishing services includes knowledge of the processes, technologies, and materials used in the reconstruction and alteration of vehicles. This course is designed to teach the application of advanced technical skills and practices related to collision repair and refinishing.

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



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. Independent reading is required.

Pre-AP English I

1 Credit Grade 9 Category II

Secondary Prerequisites:

- Grade 8 ELAR Teacher Recommendation or a grade of 85 or above in Grade 8 ELAR , or a grade of 90 or above in Grade 8 ELAR
- Grade 8 ELAR STAAR passing at MEETS Level or above

This Pre-AP 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 Pre-AP 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. Independent reading is required.

Pre-AP English II

1 Credit Grade 10 Prerequisites: English I or Pre-AP English I Category II

Secondary Prerequisites:
- English I Teacher Recommendation, or a grade of 85 or above in Pre-AP English I, or a grade of 90 or above in English I
- English I STAAR passing at MEETS Level or above

An extension of Pre-AP English I, this Pre-AP 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 Pre-AP 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 Prerequisites: English II 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. Independent reading is required.

English Composition and Rhetoric (Dual Credit ENG 1302/1302))

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 II or Pre-AP English II Category I

Secondary Prerequisites:
- English II Teacher Recommendation, or a grade of 85 or above in Pre-AP 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. 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 or AP Language & Composition Category I

Recommended for students interested in pursuing a career in Anthropology, Art History/Criticism/Conservation, Classics, Communication Sciences, Comparative Literature, Education, English, Ethnic Studies, Film Studies, History, Journalism, Linguistics, Philosophy, Political Science and Government, Psychology, Religious Studies, Sociology, Studio Arts, or Theatre Arts. 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 course. Daily reading is required. Students who choose this course may need to purchase novels.

Survey of British Literature I (Dual Credit ENG 2322)

0.5 Credit Grade 12 Prerequisite: English 1302, TVCC Admittance & TSI Category I

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

Survey of British Literature II (Dual Credit ENG 2323)

0.5 Credit Grade 12 Prerequisite: English 1302, TVCC Admittance & TSI Category I

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

College Preparatory Course: English Language Arts and Reading

1 Credit Grade 12 Category lll

In this college-preparatory course, students will improve integrated critical reading, writing, and thinking skills through engagement with a variety of texts across content areas and genres. As a result, students will be able to develop and express ideas clearly and effectively to communicate with various audiences for different purposes and occasions.

FINE & PERFORMING ARTS

Art Appreciation

1 Credit Grades 9-12

This is a one semester course. It will introduce learners to the various forms of the visual arts, such as painting, sculpture and more. Students will learn how to look at a work of art, identify and compare key characteristics in artworks, and understand the role art has played throughout history. Through hands-on activities, discussion, and research, learners will develop an overall appreciation for the art they encounter in their daily lives.

*Note this course is only one semester.

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: 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: 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 2

1 Credit Grades 11-12 Prerequisites: Art lll 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 2D art areas.

Art II 3D

1 Credit Grades 9-12 Prerequisites: 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: 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. Students' 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: Art lll 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.

Pre-AP Visual Arts

1 Credit Grades 10-12 Prerequisites: Art 1

The Pre-AP Visual Arts focuses on vertically aligned to the practices embedded in high school and college arts courses, including AP. This gives students opportunities to prioritize and strengthen disciplinary skills throughout their course.

AP Art History

1 Credit Grades 11-12 Prerequisites: World Geography & 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 interconnections 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.

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 Corequisite: 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.

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 Prerequisite: Director's Approval Corequisite: 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 relation- ships 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

Theatre 1 is an introduction course to all aspects of theatre (acting, directing, set design, costume design, lights, sound, and stage management). Students will develop their personal resources through improvisation, characterization, and theater games. Students will explore areas of theater including basic acting techniques, technical theatre, and the fundamentals of play production, along with career options and cross-curricular learning that focus on 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. Students will be required to read plays and see live theatrical productions

Theatre Arts II

1 Credit Grades 10-12 Prerequisite: Theatre Arts I or 2 Years of JH Theatre

"Act well on your part." Students will develop characterization through improvisation, class plays, ensemble scenes and monologues. Class members become playwrights, puppeteers, and designers, as well as directors and actors in the varieties of projects created within class. It is a continuation of Theater 1 stressing basic acting techniques and play production. Students will be required to read plays and see live theatrical productions.

Theatre Arts III & IV

1 Credit Grades 10-12 Prerequisite: Theatre Arts II/Theatre Arts III

Students will continue to develop their acting skills, honing in on creating whole characters using characterization through improvisation, class plays, ensemble scenes, and monologues. Class members become playwrights, puppeteers, and designers, as well as directors and actors in the variety of projects created within class. It is a continuation of Theater II continuing the growth of the student director and actor. Students will be required to read plays and see live theatrical productions.

Technical Theatre I

1 Credit Grades 9-12

Students in Technical Theatre I will study theatre safety and the fundamentals of stage design, set, costume, and property construction, as well as the principals of sound and stage lighting. Members of this class explore all areas necessary to the success of a production of any kind by exploring plays and researching and creating set designs, costume designs, properties, sound designs, and lighting plots. Class members will have hands-on experiences with lighting and sound equipment. Students will develop qualities essential to stage crew members. Students will be required to read plays and see live theatrical productions.

Technical Theatre II

1 Credit Grades 10-12 Prerequisites: Technical Theatre I

Technical Theatre II expands on the concepts and skills learned in Technical Theatre I. Technical Theatre is a course that discusses ideas in a classroom setting. Those ideas are then put into practice for a variety of school productions. Areas of study include theatre safety, theatre history, set design and construction, costume design and construction, lighting design and light board operation, sound design and sound board operation, make-up design and application, and stage management. Students enrolled in Technical Theatre will be expected to work after school on productions. Students will be required to read plays and see live theatrical productions.

Technical Theatre III & IV

1 Credit Grades 11-12 Prerequisites: Technical Theatre II/Technical Theatre III

Technical Theatre III and IV expands on the concepts and skills learned in the previous year Technical Theatre. Technical Theatre is a course that discusses ideas in a classroom setting. Those ideas are then put into practice for a variety of school productions. Areas of study include theatre safety, theatre history, set design and construction, costume design and construction, lighting design and light board operation, sound design and sound board operation, make-up design and application, and stage management. Students enrolled in Technical Theatre will be expected to work after school on productions. Students will be required to read plays and see live theatrical productions.

Theatre Production I

1 Credit Grades 9-12 Prerequisites: Audition/Director Approval Required

This course is designed to meet during (and outside) regular school hours. Theatre Production provides practical hands-on experience in acting and stage craft (lights, sound, and stage management.) Students will gain a working knowledge of playwriting, directing, acting, and theatre management. Students may be expected to attend rehearsal before or after school and participate in a variety of theatre productions throughout the year. Participation in departmental productions and competitions are requirements. Students will leave with an audition-ready performance.

Theatre Production II

1 Credit Grades 10-12 Prerequisites: Theatre Production I & Audition/Director Approval Required

This course is designed to meet during (and outside) regular school hours. Theatre Production provides practical hands-on experience in acting and stage craft (lights, sound, and stage management.) Students will gain a working knowledge of playwriting, directing, acting, and theatre management. Students may be expected to attend rehearsal before or after school and participate in a variety of theatre productions throughout the year. Participation in departmental productions and competitions are requirements. Students will leave with an audition-ready performance.

Theatre Production III & IV

1 Credit Grades 10-12 Prerequisites: Theatre ProductionI II/III & Audition/Director Approval Required

This course is designed to meet during (and outside) regular school hours. Theatre Production provides practical hands-on experience in acting and stage craft (lights, sound, and stage management.) Students will gain a working knowledge of playwriting, directing, acting, and theatre management. Students may be expected to attend rehearsal before or after school and participate in a variety of theatre productions throughout the year. Participation in departmental productions and competitions are requirements. Students will leave with an audition-ready performance.

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 wish- ing 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.

LANGUAGES OTHER THAN ENGLISH

*Note students are required to have 2 credits of the same language for the Foundation Academic Plan.

Spanish I

1 Credit Grades 9-11 Category lll

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 ll

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

Spanish II

1 Credit Grades 9-12 Prerequisites: Spanish I Category lll

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

Advanced Spanish II

1 Credit Grades 9-12 Prerequisites: Advanced Spanish I or Spanish I Category II

Secondary Prerequisites:

- A grade of 85 or above in Advanced Spanish I, or a grade of 90 or above in Spanish I.

This advanced 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 Advanced Spanish II should be well prepared to enter Advanced Spanish III.

Advanced Spanish III

1 Credit Grades 10-12 Prerequisites: Advanced Spanish II or Spanish II Category II

Secondary Prerequisites:

- A grade of 85 or above in Advanced Spanish II, or a grade of 90 or above in Spanish II.

This Advanced course is designed for collegebound students who desire a rigorous, advanced level class. Advanced Spanish III focuses on mastery of the four language skills to reach fluency. Students will begin to study Spanish Literature and of the language stills to reach fluency. This Advanced 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

AP Spanish IV

1 Credit Grades 11-12 Prerequisites: Advanced Spanish III Category I

Advanced Placement Spanish IV focuses on mastery of the language stills 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.

Beginning Spanish (Dual Credit SPAN 1411)

0.5 Credit Grades 10-12 Prerequisites: Spanish I, TVCC Admittance & TSI Category I

Secondary Prerequisites:

- A grade of 85 or above in Advanced Spanish I, or a grade of 90 or above in Spanish I.

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.

Beginning Spanish II (Dual Credit SPAN 1412)

0.5 Credit Grades 10-12 Prerequisite: SPAN 1411, TVCC Admittance & TSI Category I

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 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 & 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

*Note 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, Parent/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.

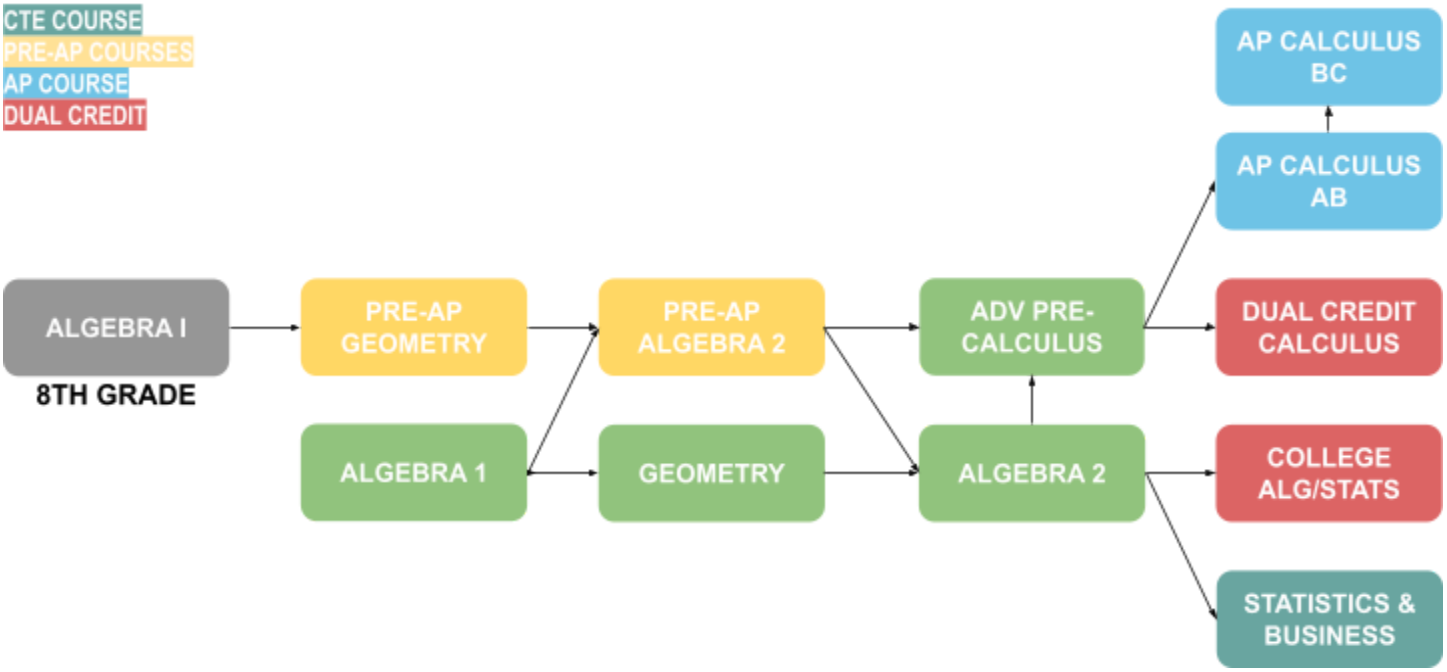
School to Work Connection

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



Algebra I

1 Credit Grades 8-9 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 Grades 9-11 Prerequisite: Algebra I Category III

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.

Pre-AP Geometry

1 Credit Grades 9-11 Prerequisite: Algebra I Category II

Secondary Prerequisites:

- Algebra I Teacher Recommendation, or a grade of 90 or above in Algebra I
- Algebra I STAAR passing at MEETS Level or above

Pre-AP 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 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.

Algebra II

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

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 pre- paring students for taking a basic College Algebra course and for preparing students for ACT, SAT, THEA, and other standardized exams.

Pre-AP Algebra II

1 Credit Grades 10-12 Prerequisites: Algebra I Category II

Secondary Prerequisites:

- Geometry Teacher Recommendation, or a grade of 85 or higher in Pre-AP Geometry or 90 or above in Geometry

Pre-AP 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 Pre-AP Algebra II should be well-prepared to enter Pre-AP Precalculus or AP Statistics. 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.

Precalculus

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

Precalculus is 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 Grades 11-12 Prerequisites: Pre-AP Algebra ll & Pre-AP Geometry Category ll

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 Prerequisites: Advanced Pre-Calculus, TVCC Admittance & TSI Category I

The beginning of the integrated study of calculus and ana- lytic 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 Prerequisites: Math 2413, Calculus II, TVCC Admittance & TSI Category I

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

College Algebra (Dual Credit Math 1314)

1 Credit Grade 12 Prerequisites: TVCC Admittance & TSI Category I

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

AP Calculus AB

1 Credit Grade 12 Prerequisites: 85 or above in Advanced Pre-Calculus Category I

Recommended for students interested in pursuing a career in Accounting, Anthropology, Architecture, Astronomy, Chemistry, Computer Science, Dentistry, Economics, Engineering, Environmental Science, Geology, Marketing, Mathematics, Medicine, Neuroscience, Nursing, Physics, or Statistics. This course is designed to prepare college-bound students for Calculus I in college. It will acquaint students with the funda- mental 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

AP Calculus BC

1 Credit Grade 12 Prerequisites: 85 or above in AP Calculus AB Category I

AP Calculus BC is an extension of AP Calculus AB. The topics of the AB class are covered plus the BC topics. The BC topics include: infinite series, polar functions, parametric functions, integration by parts and integration by partial fraction. The material taught in this class is the equivalent of two semesters of college calculus. The topics covered in this course are the focus of the AP exam questions, and the rigor is in line with college board expectation.

Accounting II (Dual Credit ACNT 1303/1313)

1 Credit Grade 11 (Category I starting with Class of 2028)

Prerequisites: Accounting I, TVCC Admittance & TSI

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 include real numbers, basic geometry, polynomials, factoring, linear equations, inequalities, quadratic equations, rational expressions, factoring techniques, radicals, algebraic fractions, complex numbers, graphing linear equations and inequalities, quadratic equations, systems of equations, graphing quadratic equations and an introduction to functions. Emphasis is placed on algebraic techniques, in order to successfully complete an entry-level college mathematics course. Calculator use is allowed in this course when indicated, including the departmental semester examination.

MISCELLANEOUS ELECTIVES

* Note that 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 re- search 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 can 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 Intervention

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 Prerequisites: Principal Approval Required (Local Credit)

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 completed. At that time it will be the decision of the second sport coach to allow the athlete to participate. If the student is allowed to participate, he/she must run a total of 10 miles in five days for quitting the first sport.

Physical Education- Adventure/Outdoor Education/Archery

1 Credit Grades 9-12

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

Physical Education- Adventure/Outdoor Education: Competition Archery

1 Credit Grades 9-12 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: Tryouts

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 organiza- tion. 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.

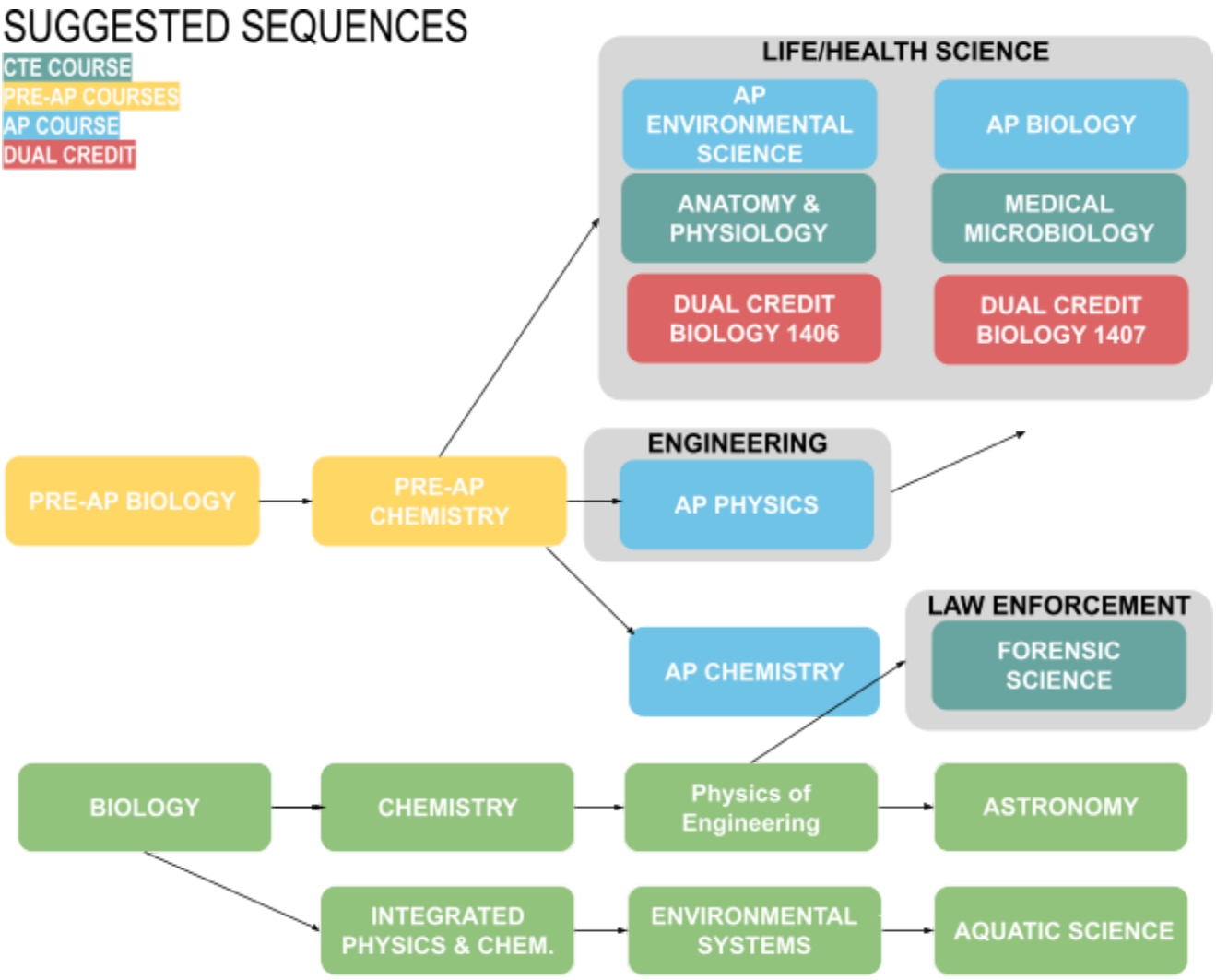
Dance I, II, III, IV

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. credit requirement

SCIENCE



Integrated Physics and Chemistry

1 Credit Grades 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 Grades 9-12 Category III

Biology 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.

Pre-AP Biology

1 Credit Grades 9-12 Category II

Secondary Prerequisites:

- Grade 8 Science Teacher Recommendation or a grade of 85 or above in Grade 8 Science , or a grade of 90 or above in Grade 8 Science
- Grade 8 Science STAAR passing at MEETS Level or above

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

Biology (Dual Credit BIOL1406/1407)

2 Credits Grades 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.

Pre-AP Chemistry

1 Credit Grade 10 Prerequisites: Pre-AP 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. 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.

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 involved in bonding, chemical formulas, chemical equations, organic chemistry, and nuclear chemistry. Laboratory work is correlated with topics.

Physics

1 Credit Grades 10-12 Prerequisites: Algebra II & 2 Science Courses Category III

* Note that Algebra II can be taken concurrently.

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

Environmental Systems

1 Credit Grades 10-12 Prerequisites: 1 Science Course 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.

Astronomy

1 Credit Grades 11-12 Category III

In Astronomy, students conduct laboratory and field investigations, use scientific methods, and make informed decisions using critical thinking and scientific problem solving. Students study the following topics: astronomy in civilization, patterns and objects in the sky, our place in space, the moon, reasons for the seasons, planets, the sun, stars, galaxies, cosmology, and space exploration. Students who successfully complete Astronomy will acquire knowledge within a conceptual framework, conduct observations of the sky, work collaboratively, and develop critical-thinking skills.

Forensic Science

1 Credit Grades 11-12 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 Grades 11-12 Prerequisites: Biology & a 2nd Science Course 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: Pre-AP Chemistry or Chemistry Category I

Secondary Prerequisites:
- 85 or above in Pre-AP Chemistry or 90 or above in Chemistry
- It is recommended that students complete Algebra II and a first year course in Chemistry

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: Pre-AP Biology or Biology Category I

Secondary Prerequisites:
- 85 or above in Pre-AP Biology or 90 or above in Biology

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 Algebra II Category I

* Note that Algebra II can be taken concurrently.

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 & 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 Prerequisites: Biology & Chemistry Category I (Category II starting with Class of 2028 and after)

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 (Dual Credit AGRI 1419/1131)

1 Credit Grades 11-12 Category I

Prerequisites: Biology & Chemistry or IPC & Chemistry, Algebra I & Geometry, Either Small Animal Management, Equine Science or Livestock Production, TVCC Admittance & TSI

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

Prerequisites: Biology & IPC, 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

Prerequisites: Algebra I & Biology, IPC & Chemistry, or Physics & PLTWI

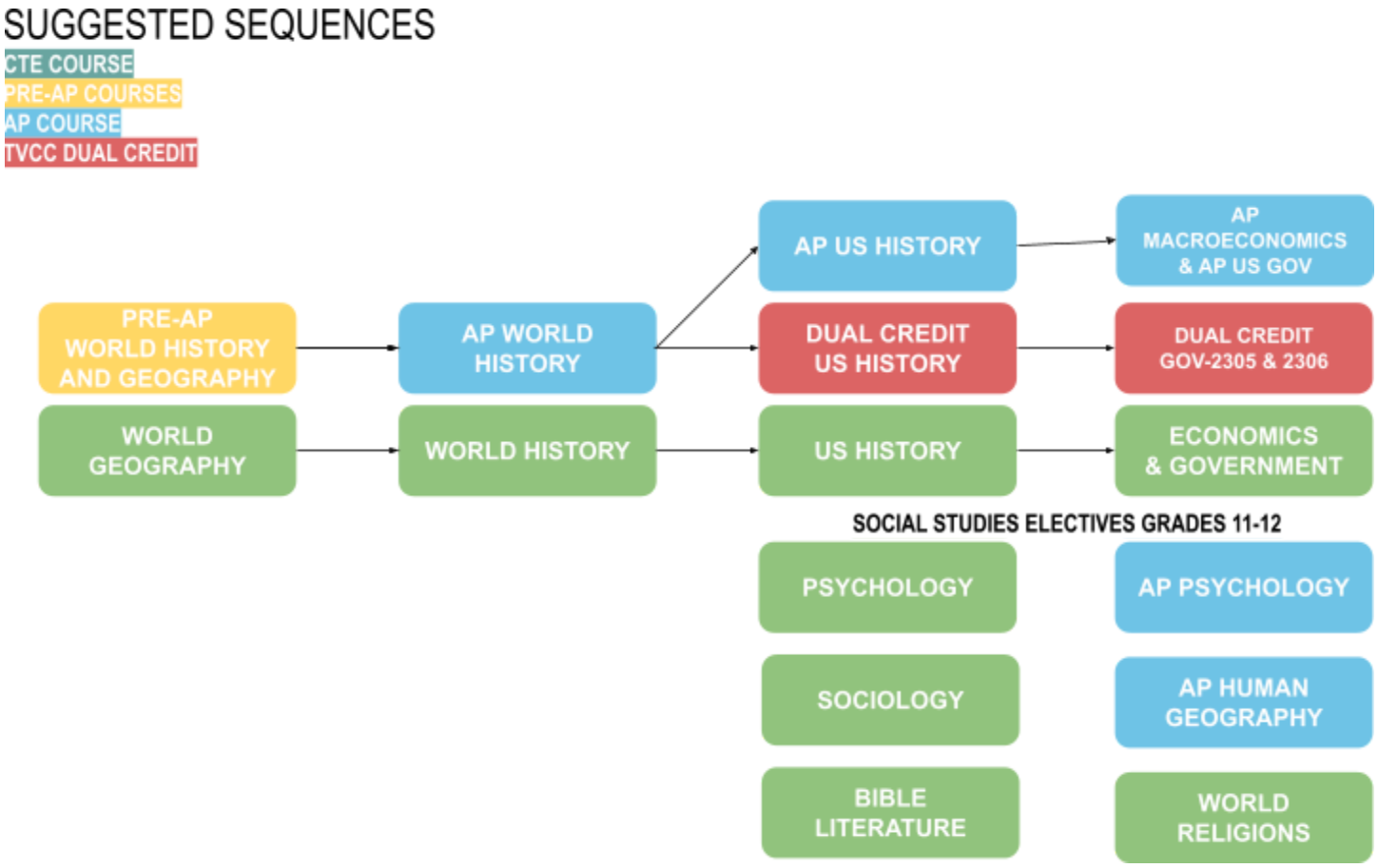
Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

Engineering Design & Problem Solving

1 Credit Grade 12 Prerequisites: PLTW3 Category III (Category !! starting with Class of 2028 and after)

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



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.

Pre-AP World History and Geography

1 Credit Grade 9 Category II

Pre-AP World History and Geography focuses deeply on the concepts and skills that have maximum value for high school, college, careers, and civic life. The course builds students' essential skills and helps to prepare them for a range of AP history and social science coursework during high school, including AP Human Geography and all three AP history courses. The learning model is that of an apprenticeship. Primary and secondary sources take center stage in the classroom, and students use the tools of the historian and geographer to examine questions and build arguments.

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.

AP World History

1 Credit Grade 10 Prerequisite: AP Human Geography Category I

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

United States History

1 Credit Grade 11 Category III

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

AP United States History

1 Credit Grade 11 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 Prerequisites: TVCC Admittance & TSI Category I

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

United States History from 1877 (Dual Credit US HIS 1302)

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

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

United States Government

0.5 Credit Grade 12 Prerequisites: US History, World Geography & World History Category III

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 Prerequisites: US History, W. History & World Geography Category III

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, Inter- national 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 Prerequisites: TVCC Admittance & TSI Category I

Study of the United States and Texas Constitutions, civil liberties, federalism, interest groups, public opinion, political parties, voting and elections (satisfies requirements for 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 Prerequisites: TVCC Admittance & TSI Category I

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

Psychology

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.

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 land- scape 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 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.

Bible Literature

1 credit Grades 11-12

A study of the rich literary heritage found in both Hebrew and Christian scripture. The course focuses on such types as: saga, short story, poetry, gospel narrative and apocalyptic writings. Themes include the human struggle to understand the Divine and the nature of good and evil.

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 Grades 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 - CTE PROGRAMS

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

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		
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	S1	Advanced Animal Science	AGRI-1401	Introductory Animal Science	4	030 - Life and Physical Sciences or 090 - Component Area Option
10+	S1	Business Info. Management	BCIS-1305	Business Computer Information System	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	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 I	3	060 - American History
11	S2	United States History	HIST-1302	United States History II	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	
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	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		
12	S1	Medical Assistance Law Pro	MDCA-1352	Practicum in Nursing		
12	S2	Medical Law Ethics	HPRS-1105	Practicum in Nursing		
12	S1	Pharmacy & Admin of Medicine	MDCA-1348	Practicum in Nursing		
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-1307			
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 (GMAW)	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

You can register with the NCAA at www.ncaaeligibilitycenter.org. There is a required registration fee. Waivers are available for qualifying students.

APPENDIX E - 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 ACT/SAT qualifying scores
- Fees may apply

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

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