

MANSFIELD ISD
A DESTINATION DISTRICT



VISION  **2030**



LIFE, COLLEGE, AND CAREER READY

2020 - 2021

ACADEMIC PLANNING GUIDE

SCHEDULING, GRADING POLICIES & COURSE
INFORMATION

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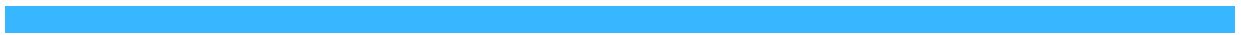
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I.

A small globe with blue oceans and green continents is balanced on top of an open book. The book is open to two pages, and the globe is centered over the gutter. The background is a plain, light-colored surface.

PLANNING OVERVIEW



I. ACADEMIC PLANNING - OVERVIEW

ACADEMIC PLANNING OVERVIEW



Please read this guide carefully. Contact your campus counselor for additional information regarding scheduling, course prerequisites, dual credit, testing, and/or graduation requirements. **It is important to know that this course description guide includes all courses that are offered in the Mansfield ISD. However, due to enrollment and teacher availability, not every class will be offered every year at all campuses.**

PLANNING GUIDE HIGHLIGHTS

- Credit is awarded at the end of each **semester** with a grade of 70 or better.
- There are many factors to consider in selecting courses that will meet individual needs for next year.
- Remember to select courses to fit overall planning which projects beyond the high school years.
- Interest and ability should determine choices.
- Experience shows that those who plan an entire high school program early and frequently review the plan will be able to graduate without difficulty.

COURSE PLANNING

Although students will receive specific instructions during course planning time from high school personnel, the responsibility for appropriate graduation and career choices rests with students and parents. The campus counseling staff is available to assist in making decisions related to course selections.

One of the most critical functions performed by a school counselor is the planning the student's four-year graduation plan. Based upon courses selection information, courses are scheduled and teachers are employed for the next year; therefore, it is important that course planning be given serious consideration. After mid-April of each year, changes will be made only to correct scheduling errors or to equalize class enrollments.

I. ACADEMIC PLANNING- OVERVIEW

BLOCK SCHEDULING

MISD high schools are organized on an A/B Block Schedule with students taking four classes per day on alternating days. Each block is 90 minutes in length. Ninth, tenth, and eleventh grade students are required to take eight classes each semester in the block schedule. Twelfth grade students who have passed the required End of Course (EOC) will be required to take six classes each semester in the block schedule. Seniors who have not passed their required EOCs must take eight classes. However, all seniors are strongly advised to take advantage of the educational opportunities found

in the MISD and take eight classes each semester. Seniors not taking all eight classes each semester must plan for a senior release class and leave campus during their free block. The senior release/free block must be either the first or last block of the day.

1. Remember, classes required for graduation are non-negotiable. Therefore, if you participate in a program that is double-blocked, it is critical that credits are closely monitored.
2. Courses taken at Ben Barber Innovation Academy (BBIA) are available yielding 1 credit for 18 weeks and 2-3 credits for 36 week courses.
3. The block schedule is designed so that students through the lengthened class periods can explore content more thoroughly and develop patterns of management and organization that will benefit them throughout life.
4. Carefully plan your schedule. The four-year plan is very important in order to obtain all of the courses you wish to take.
5. Spend time with your high school counselor; it is time well spent.

MISD GRADING SYSTEM FOR 9-12

The district high schools use a weighted numerical grading system. In calculating GPA, ten points are added to a student's average in AP, Pre-AP, and approved dual credit courses. **The following chart reflects the MISD grading system for grades 9-12:**

A	B	C	F
90-100	80-89	70-79	BELOW 70

NOTE: Beginning in the 2014-2015 school year and thereafter, if a student fails either semester of any MISD yearlong course and passes the opposite semester with a high enough grade for an overall average of 70 for the full course, a full credit will be granted. In this situation, for averaging to occur, the courses must have been taken during the same school year and in consecutive semesters.

CLASS RANK

Starting in class of 2023, class rank will be determined by calculating grades earned in high school credit courses in the following categories:

1. English/Language Arts
2. Mathematics
3. Science
4. Social Studies
5. Languages Other Than English

ENROLLMENT

A student enrolling in the district for the first time must be accompanied by his/her parent(s) or legal guardian and must provide satisfactory evidence of required immunization, **proof of residence (utility bill or lease agreement)**, copy of birth certificate and social security card, and a withdrawal form from the previous school. To complete admission, the following demographic information is necessary: home address, home phone, mother's name, place of business and work phone, father's name, place of business and work phone, and a friend or relative's name and number in case of emergency.

FOR STUDENTS ENTERING MISD FOR THE FIRST TIME IN GRADES 9-12:

This chart will be used if the previous school does not have a conversion chart of its own. MISD will use the conversion chart of the student's previous school if one is provided.

ACADEMIC CONVERSION TABLE								
A+	98	B+	88	C+	78	D+	68	
A	95	B	85	C	75	D	65	
A-	92	B-	82	C-	72	D-	62	
							F	55

Students transferring into the MISD from other school districts will not receive weighted credit for Pre-AP, AP, or honors courses taken in their previous school district(s), if the courses in question are not offered in the MISD. Students transferring from international schools, homeschools and unaccredited schools shall be individually assessed. See your counselor.

I. ACADEMIC PLANNING- OVERVIEW

SENIOR RELEASE

Students who have earned enough credits to be classified as a senior may opt to take early release or late arrival. Twelfth grade students who have passed Exit Level STAAR/EOC exams will be **required** to take **six classes each semester. Seniors who have not passed Exit Level STAAR/EOC must take eight classes.** However, we strongly advise all seniors to take advantage of the educational opportunities found in the MISD and to take eight classes each semester. Seniors not taking all eight classes each semester must sign up for senior release and leave campus during their free classes. **The senior release/free periods must be a combination of either 1st/5th periods or 4th/8th periods.**

ADVANCED COURSES

MISD courses *eligible* (see conditions below in bold) for weighted credit (10 extra points averaged into the student's overall grade average reflected on the transcript) are limited to those courses listed in this guide as Advanced Placement (AP) courses, Pre-Advanced Placement (Pre-AP) courses, Academic Decathlon, approved dual credit courses. **Weighted credit will automatically be given to students who receive a grade of 70 or higher in Advanced Placement (AP) courses, Pre-AP courses, Academic Decathlon, and approved dual credit courses.** MISD provides curriculum offerings for students with special talents and abilities. The goal of the honors program is to challenge and stimulate students to the highest level of their abilities. However, students and parents should be very sensitive to the demanding nature of Advanced Placement courses. Students will be engaged in college level activities, particularly in the areas of writing skills, reading, and test taking. Advanced Placement courses place a high degree of emphasis on the student's own self-motivation, study skills, and the ability to self-direct his or her own learning. Advanced Placement Courses, because of their academic rigor, are assigned a weighted grade factor of an additional 10 points. Qualifying for Pre-AP or Advanced Placement courses is based on interest and prerequisite courses. Students are encouraged to enroll in as many academically rigorous classes as they can manage. Advanced Placement courses prepare students for Advanced Placement examinations given by the College Board in May. These courses require one to perform at the level of a college freshman. A successful score on the examination gives the student's college credit or placement for the courses taken in high school, subject to the approval of the student's selected college. **It is the responsibility of the student to inquire if the college of choice accepts advanced placement exam credit and to request that credit be given.**

ADVANCED COURSES OFFERINGS:

SOCIAL STUDIES	ELA/LOTE	SCIENCE
Human Geography	English III	Biology
World History	English IV	Chemistry
US History	Spanish	Physics
European History	German	Environmental- Science
Psychology	French	
Economics	Japanese	
Government	Chinese	
FINE ARTS	Latin	MATH
Studio Art	Computer Science	Calculus
Music Theory	CTE	Statistics
	PLTW	

It is the responsibility of the student to obtain and follow the summer reading/assignment list and testing schedule, when required, for these courses. Tarrant County College Dual Credit Courses, because of their academic rigor, are assigned a weighted grade factor of an additional 10 points. Qualifying for TCC courses is based upon past performance and prerequisite courses. Additional requirements for TCC Dual Credit Courses include an overall grade average of 80 or above. High school credit for TCC Dual Credit Courses will be designated on the high school transcript. It is the responsibility of the student to request that TCC send a copy of the college transcript to the college of choice.

GIFTED/TALENTED EDUCATION

In the ninth through twelfth grades, gifted students are served through Advanced Placement (AP) and Pre-Advanced Placement (Pre-AP) Courses. **See the Pre-AP and College Board AP course listings for more specific information. If you have questions, please contact your campus GT Specialist. Parents of identified gifted students should be in touch with your campus representatives on the GT Parent Advisory Council (GTPAC).**

SPECIAL EDUCATION PROGRAM

The special education program provides a comprehensive program for each student between the ages of three and twenty-two who has been identified as having a special need. These special needs include physical, mental, or emotional handicaps, and learning disabilities. Visually handicapped and hearing-impaired students shall have a free, appropriate education from birth through age 22. Consideration of a student's need for special education services is initiated by a referral that may be made by the parents, a physician, a community agency, and/or school personnel. In all cases, parental permission is required for participation in special education unless the student is eighteen or married.

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES (ESOL)

All students who enroll in MISD will complete a home language survey. If this survey indicates that a language other than English is spoken in the home or is spoken by the student, the student must be referred to the ESOL teacher for evaluation. Tests will be administered and students who are found to be limited English proficient (LEP) may enroll in ESOL classes. ESOL classes focus on intensive development of listening, speaking, reading, and writing skills in English. Two terms or credits of ESOL may count as two of the English I and II credits required for high school graduation.

CAREER AND TECHNICAL EDUCATION (CTE) PROGRAMS

Career and technical education courses provide instruction in the technical, practical, and leadership skills needed for entry-level jobs in business and industry, for entry into Tech Prep Programs at community colleges, or for entry into 4-year universities. Various types of programs are offered, which include pre-employment certifications, career preparation, and/or internships. **See the Ben Barber Innovation Academy (BBIA) section for course listings.**

PHYSICAL EDUCATION CLASSES AND SUBSTITUTIONS/WAIVERS

One credit of physical education (PE) is required for graduation by the state of Texas. Students may earn up to four state credits in PE/athletics. All PE/athletic credits after four are considered local credit. In addition to the regular physical education courses, there are several ways to substitute or waive these credits: athletics, drill team (fall semester), JV/Varsity cheerleading (fall semester), marching band (fall semester), color guard, and Junior ROTC. Students may also earn credit for PE if the student participates in an appropriate privately or commercially sponsored physical activity program. Applications for off-campus PE are available through the high school counselors. Application must be made prior to the term in which the student wishes to receive credit. **See the Health and Physical Education section for additional information on this subject. Note: Students can only receive 1 state credit for PE for drill team, marching band, JROTC, cheerleading and color guard.**

COURSE CREDIT TYPES

REQUIRED:

These courses are required to fulfill state educational guidelines. A course may or may not have a prerequisite; a prerequisite is a course that must be taken prior to the course under consideration. **To receive a high school diploma from the MISD and be eligible to participate in commencement activities, a student must successfully complete the required credits and pass all portions of the required state mandated exit exam.**

ELECTIVES:

In addition to required state courses, students must choose other courses to complete their schedules. The number and types of electives varies from year to year. Elective courses or credits may be selected from additional core academic courses or from courses in the other departments.

LOCAL:

Local credit courses are courses approved for credit beyond the 26 required credits for the Foundation Graduation Plan with or without an endorsement or The Distinguished Level of Achievement. See Graduation Programs for additional information on this subject.

GRADE-LEVEL ADVANCEMENT & CLASSIFICATION

Students are classified at the beginning of each school year according to the number of credits they have earned. Required credits are listed below.

Freshman	Sophomore	Junior	Senior
0-5 ½	6-11 ½	12-18 ½	19+

In order to graduate, students must earn 26 credits, successfully complete the courses required for their specified graduation plan, and pass the designated state testing requirements.

STAAR/EOC

Students will be required to take the STAAR EOC (State of Texas Assessments of Academic Readiness End-of Course) exams. House Bill 5 reduced the number of EOC exams to five: Algebra I, United States History, English I, and II, Biology. Please note that additional information updates regarding EOC exams will be given as needed to parents and students.

HIGH SCHOOL TRANSCRIPTS FOR COLLEGE ADMISSION

Students must make a written request in the registrar’s office for each needed transcript at a minimal fee per transcript. Transcripts need to be mailed directly to the colleges by the high school registrar in order to be considered official. No requests for transcripts are taken by phone. **In addition to needing transcripts for admission, colleges require a final transcript to be sent upon completion of high school graduation requirements.** Please note that a transcript is a working document and is not considered a final document until graduation. The naming of the valedictorian and salutatorian will be finalized at the end of the 5th six weeks fall semester of students’ senior year and announced during the final weeks of school. Students who have attended Tarrant County College, the University of Texas at Arlington or Texas Wesleyan University for dual credit during high school must request a transcript be sent to the college where admission is being requested. High school campuses cannot provide a transcript for TCC, UTA or TWU courses.

COLLEGE READINESS EXAMS

PSAT/NMSQT:

This test is designed to test the verbal, mathematical, and written skills of students. This test is taken in preparation for the SAT during the junior year. National Merit Scholarships are available if the student's junior level scores qualify him/her to be a Finalist. College bound high school students are encouraged to take the PSAT as practice for the junior year where the scores count for scholarship consideration. This test is given only once per year in October.

SAT/ACT:

Most colleges and universities require one of two major entrance exams: the American College Testing Program (ACT) and/or the Scholastic Aptitude Test (SAT). Students usually take these during the junior year or at the beginning of the senior year. Websites are www.act.org and www.collegeboard.com

SAT II:

Some colleges require students to take the SAT II tests. These are subject tests given on specific SAT dates. Check with the college you plan to attend to verify whether these tests are needed for admission.

ADDITIONAL WAYS TO EARN CREDIT

The State Board of Education has proposed different methods by which a student may earn credit. For more information, please contact your high school’s counseling center.

Credit by Examination (CBE) For Credit Recovery (With Prior Instruction):

Credit by Exam is designed as an option to earn credit for those students who have attended a class at least 55 hours (11 weeks) and received a semester average no lower than a 60. The decision to allow a student to earn credit by exam must be made by the attendance committee when failure of the course resulted from excessive absences. Students have the opportunity to take an exam through either Texas Tech or UT Austin correspondence school. Applications may be obtained online and approved in the high school counseling center. A score of 70 or better on the CBE is required for credit. If credit is awarded, grades will be recorded on the student’s transcript, computed in the credits toward graduation, and calculated in the student’s overall grade average and rank in class. Fees are established by the universities. Student/Parent is responsible for fees charged by Texas Tech or UT Austin.

Credit by Examination (CBE) For Acceleration (Without Prior Instruction):

Students who provide evidence of proficiency in a subject area may take a CBE for acceleration. A score of 80% is required for credit per Senate Bill 1. **Contact your counselor or visit the MISD website for more information.** If credit is awarded, grades will be recorded on the student’s transcript, computed in the credits toward graduation, and calculated in the student’s overall grade average and rank in class. Testing dates and registration deadlines for the 2020-2021 school year are as follows:

Testing Date	Registration Deadline
October 14, 2020	September 11, 2020
February 10, 2021	January 11, 2021
May 3-14, 2021	AP TESTING
July 27-28, 2021	June 4, 2021

***May Tests are AP Exams. Registration for AP Exams occurs at each High School.*

Correspondence/Online Courses:

Students in grades 9-12 are eligible to earn credits toward graduation through correspondence/online courses. Grades earned in correspondence/online courses will be recorded on the student’s transcript, computed in the credits toward graduation, and calculated in the student’s overall grade average and rank in class. Students may apply for these course options through their high school counseling center. Self-discipline to complete the lessons and taking the final exams within a specific time frame are important factors when considering correspondence/online courses. State approved correspondence courses are offered by Texas Tech and UT Austin. The student is responsible for all course fees and textbook(s). Additionally, the MISD offers online courses (See the *MISD Online Academics* section in this course guide for more information). Online courses taken during the school days, MISD provides course and textbooks at no cost.

I. ACADEMIC PLANNING - GRADUATION PLANS

GRADUATION PLANS

Foundation Plan w/Endorsement		Distinguished Level of Achievement		Foundation Plan	
English	4	English	4	English	4
Math	4	Math (w/Alg 2)	4	Math	3
Social Studies	3	Social Studies	3	Social Studies	3
Science	4	Science	4	Science	3
Languages (LOTE)	2	Languages (LOTE)	2	Languages (LOTE)	2
Physical Education	1	Physical Education	1	Physical Education	1
Speech	.5	Speech	.5	Speech	.5
Health	.5	Health	.5	Health	.5
Fine Arts	1	Fine Arts	1	Fine Arts	1
Endorsement Credits	4	Endorsement Credits	4	Electives	8
Electives	2	Electives	2		
TOTAL:	26	TOTAL:	26	TOTAL:	26



ADDITIONAL INFORMATION

Endorsement

An endorsement is a coherent sequence of courses for four or more credits which includes one advanced course in the designated area of study.

Distinguished Level of Achievement

Distinguished Level of Achievement is when students complete the foundation plan with endorsement (26 credits) and their course work includes Algebra II as one of the math courses. To be eligible for the state's top 10 automatic admission in to colleges and universities, students must complete the Distinguished Level of Achievement.

I. ACADEMIC PLANNING –GRADUATION PLANS

THE TABLE BELOW LISTS COURSE OPTIONS THAT MEET REQUIREMENTS FOR THE FOUNDATION GRADUATION PLAN WITH ENDORSEMENT.

ENGLISH LANGUAGE ARTS (4 credits total) Students must receive four ELA credits.			
Freshman (1 credit)	Sophomore (1 credit)	Junior (1 credit)	Senior (1 credit)
2010 English I 2013 PAP English I	2020 English II 2023 PAP English II 2025 AP World Studies	2030 English III 2033 AP English III 0252 TCC English Comp	2040 English IV 2043 AP English IV 2270 Creative Writing 0251 TCC English Comp (if first time taking) 0253 TCC British Literature (pre requisite is TCC English Comp)

MATH (4 credits) Students must receive credit for Algebra I & Geometry + two additional math courses. Students must successfully complete Algebra II for DLA.			
Freshman (1 credit)	Sophomore (1 credit)	Junior (1 credit)	Senior (1 credit)
6030 Algebra I 6033 PAP Algebra I 6050 Geometry I 6053 PAP Geometry	6050 Geometry (required) 6053 PAP Geometry 6070 Algebra II 6080 PAP Algebra II 6095 Algebraic Reasoning 1224CT Financial Math (10-12)	6070 Algebra II 6080 PAP Algebra II 6095 Algebraic Reasoning 6090 Adv Quantitative Reasoning 6067 Statistics 6060 Math Models 6203 AP Statistics 6150 Pre-Calculus 6160 PAP Pre-Calculus	6070 Algebra II 6080 PAP Algebra II 6090 Adv Quantitative Reasoning 6067 Statistics 6203 AP Statistics 6150 Pre-Calculus 6160 PAP Pre-Calculus BC 0610 TCC College Algebra .5 0614 TCC College Stats .5 0617 TCC Pre Cal .5 0611 TCC Math for Business .5 0612 TCC Math for Business II .5 0618/0619 College Readiness Math I/II 1224CT Financial Math (10-12) 1272CT Accounting II (11-12)

SCIENCE (4 credits) Students must receive credit for Biology & Chemistry and/or Physics + 2 additional science credits.			
Freshman (1 credit)	Sophomore (1 credit)	Junior (1 credit)	Senior (1 credit)
8000 Biology 8003 PAP Biology	8040 Chemistry 8010 IPC 8023 PAP Chemistry	8040 Chemistry 8023 PAP Chemistry 8060 Physics 8145 Environmental Systems 8170 Astronomy 8100/0810 Anatomy & Physiology 8140 Aquatic Science 8083 AP Biology 8073 AP Chemistry 8094 AP Environmental Systems 8095 AP Physics I 8096 AP Physics II 8097 AP Physics C: Mechanics 8098 AP Physics C: Electricity 0940 TCC Biology 0942 TCC Geology 1116CT Advanced Animal Science 8120CT Medical Micro Biology 8125CT Pathophysiology 9430CT Forensic Science 1836CT Principles of Engineering	8060 Physics 8145 Environmental Systems 8170 Astronomy 8100/0810 Anatomy & Physiology 8140 Aquatic Science 8083 AP Biology 8073 AP Chemistry 8094 AP Environmental Systems 8095 AP Physics I 8096 AP Physics II 8097 AP Physics C: Mechanics 8098 AP Physics C: Electricity 0940 TCC Biology 0942 TCC Geology 1116CT Advanced Animal Science 8120CT Medical Micro Biology 8125CT Pathophysiology 9430CT Forensic Science 1836CT Principles of Engineering

I. ACADEMIC PLANNING –GRADUATION PLANS

SOCIAL STUDIES (3 credits) Students must receive credit for World Geography or World History, US History, Government & Economics.

Freshman (1 credit)	Sophomore (Optional credit)	Junior (1 credit)	Senior (1 credit)
9000 World Geography 9205 AP Human Geography <i>Students may choose to take World Geo or World History to meet the requirement. Both are not required.</i>	9010 World History 9210 AP World History 2026 AP World Studies	9050 US History 9060 AP US History 0972 TCC US History	9100 Government 9140 Economics 9110 AP Government 9150 AP Economics 0911/0912 TCC Government 0915/0916 TCC Economics *Student may take additional SS credits to meet Multidisciplinary or Arts & Humanities Endorsement.

LOTE (2 credits) Both credits must be same language

Level I Options	Level II Options
7300/7300BB Spanish I 7000 French I 7500BB Chinese I 7100BB German I 1050CT Computer Science I	7400BB Latin I 7700BB Japanese II 7600BB ASL I 0760 TCC ASL I (10 th grade) 7310/7310BB Spanish II 7320/73200BB PAP Spanish II 7010 French II 7013 PAP French II 7510BB Chinese II 7513BB PAP Chinese II 7100BB German II 7113BB PAP German II *Students may take additional LOTE credits for Arts & Humanities Endorsement

PHYSICAL EDUCATION (1 credit) There are courses that may count for PE substitution (see below)

This can include any full credit of athletics/PE substitutions offered in Football, Basketball, Baseball, Soccer, Volleyball, Cross Country/Track, Golf, Swimming PE SUBSTITUTION COURSES: Cheer (one credit only) Drill Team (one credit only) Marching Band (two fall semesters to equal one credit) ROTC (one credit only)	4001 PE Foundations of Physical Fitness (.5 credit) 4003 PE Aerobic Activity 4004 PE Individual/Team Sports 4010 Beginning Swimming for Fitness 4011 Intermediate Swimming for Fitness
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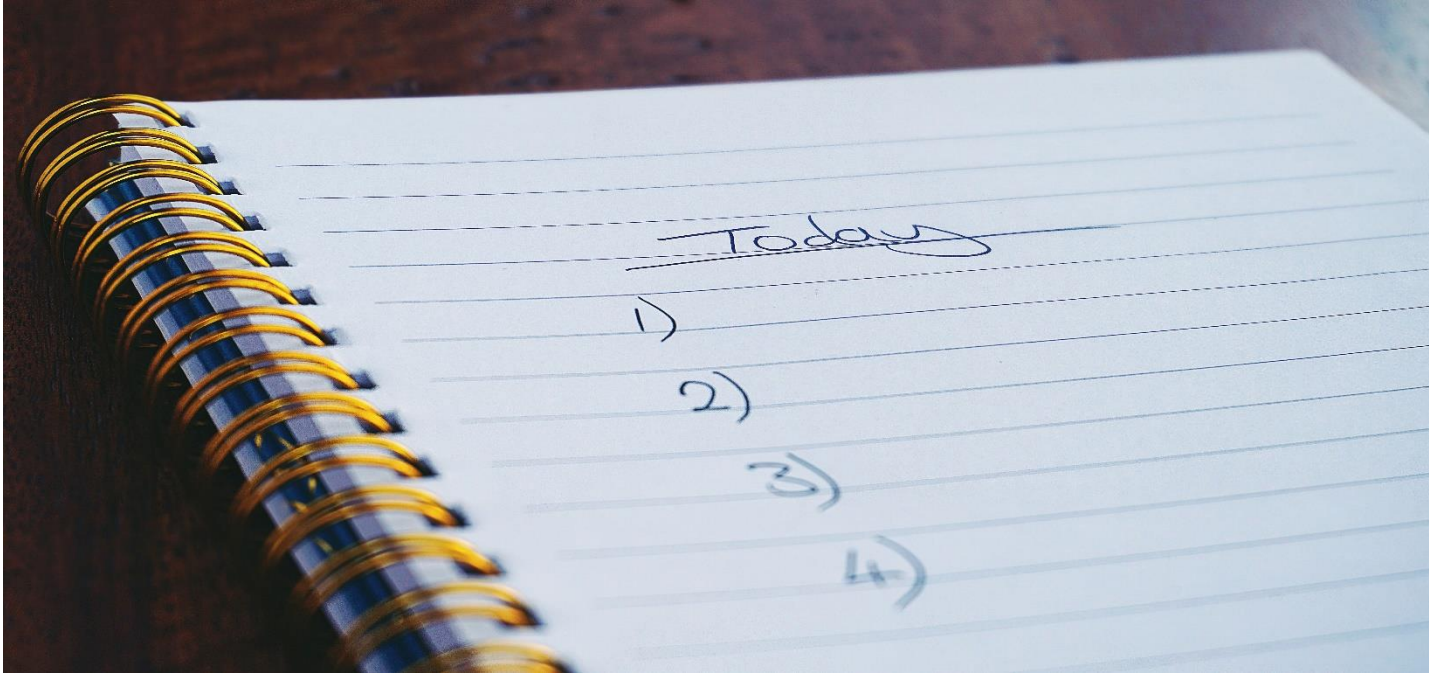
HEALTH (.5)	PROFESSIONAL COMMUNICATIONS (.5)	FINE ARTS (1 credit from the concentrations below – too see complete course offering refer to course guide)
4000 Health	2246 Professional Communications 0260/0261 TCC Speech	Art Band Dance Choir Theater Floral Design *Students may earn an Arts and Humanities endorsement with 4 credits of fine arts/two being upper level (i.e. Band student who takes Band I-IV)

ELECTIVES (Endorsement credits = 4/Additional credits = 2)

To see a complete list of electives please review the course guide or course key at the back of the book. Electives are offered at the home campus and at Ben Barber Innovation Academy.

I. ACADEMIC PLANNING - COLLEGE PREPARATION

COLLEGE PREPARATION



GRADE 8

- ✓ Each student will carefully complete a four-year high school academic plan in their Career Pathways Course.
- ✓ Each student will have an opportunity to explore their individual interests as they prepare for higher education and the world of work.
- ✓ Parents and students will be invited to a general information session in the spring.
- ✓ It is strongly recommended that each student carefully read the course selection guide and carefully choose courses for high school.
- ✓ Look over specific college catalogs and publications that give college profiles.

GRADE 9

- ✓ Goals and objectives that were chosen in the eighth grade will be re-evaluated during ninth grade course planning period.
- ✓ Careful consideration should be given to reviewing the four-year graduation plan with your high school counselor and parents.
- ✓ Students should continue exploring their interests in Xello and through online resources.
- ✓ Each high school has a Go Center available to further research colleges.
- ✓ Students should also review college catalogs and publications which give college profiles.
- ✓ Attend the MISD College and Career Night in the fall.
- ✓ Begin keeping in your portfolio: report cards, test scores, honors, school activities, community activities, and work experience.
- ✓ Students may also want to keep samples of their major school projects, papers, etc. Know NCAA (National Collegiate Athletic Association) requirements if you want to play sports in college.
- ✓ Take courses that are challenging and work to your full potential.
- ✓ Be a self-advocate, attend tutorials and do not let yourself fall behind in classes.
- ✓ **Remember, to qualify for access to dual credit courses students must have an overall grade point average of at least an 80.**

I. ACADEMIC PLANNING - COLLEGE PREPARATION

GRADE 10

- ✓ Review the four-year graduation plan.
- ✓ Take courses that are challenging and continue working to full potential.
- ✓ Take the Preliminary SAT (PSAT) as practice for the PSAT/NMSQT that juniors take for scholarship consideration.
- ✓ Analyze the PSAT results and establish personal goals in January.
- ✓ Begin searching for scholarships apply.
- ✓ Continue to review college publications.
- ✓ Begin to visit colleges in the summer, especially if you are interested in a highly selective college.
- ✓ Study to make grades representative of abilities.
- ✓ Continue adding to your portfolio.

GRADE 11

- ✓ Review graduation plans and narrow college choices.
- ✓ Confer with parent(s) and the counselor to decide on courses for the senior year and to discuss post-graduation plans.
- ✓ Contact the colleges and speak with an admissions officer about the specific courses they require
- ✓ Go online and view the entrance course requirements.
- ✓ Take challenging courses.
- ✓ Attend the MISD College and Career Night in the fall and talk to the college personnel.
- ✓ Take the PSAT offered only once per year in October.
- ✓ Apply for any scholarships that your parents' employers may provide and any scholarships that are available to junior competition.
- ✓ Take the SAT and/or ACT in the late spring.
- ✓ Visit colleges in the summer.
- ✓ Send for college information and applications.
- ✓ Make grades representative of your ability.
- ✓ Continue adding to your portfolio.

GRADE 12

- ✓ Finalize college choices and send letters/ applications.
- ✓ Check with the campus counseling center, Internet resources, and the college website to apply for any qualifying scholarships.
- ✓ Confer with your counselor in early fall.
- ✓ Obtain a FAFSA ID and Complete the FAFSA starting October 1.
- ✓ Attend the MISD College and Career Night
- ✓ Take the SAT and/or ACT and necessary achievement tests.
- ✓ Send regular decision applications in the fall semester & secure housing-especially to colleges that are highly competitive for dorm space.

Financial Aid

The Free Application for Federal Student Assistance (FAFSA) is not available until October. The information for the application is based on income tax returns. Through this application, eligibility is determined for grants, loans, work-study programs, and some scholarships. You may apply on-line at www.fafsa.ed.gov.

Scholarships

The best resource for scholarship information is directly from the financial aid office at the college(s) you wish to attend. The counseling center on your high school campus will also have information about certain scholarships. Most scholarship opportunities are now posted online, allowing student's the opportunity to do local and national scholarship searches on their own.

Texas Grant

The purpose of the Texas Grant is to provide grant money to enable well-prepared, eligible students to attend public and private colleges and universities in Texas. The awards may be used at a Texas college or university, both public and private. Awards to students attending Texas private colleges and universities are based on public university amounts. To apply, first complete the FAFSA form. You will then work with the financial aid office at the college or university you plan to attend to determine if you are eligible.

Common Application

Texas offers a common application for all public universities. This application may be obtained from the counseling center on your high school campus or online at www.applytexas.org.

I. ACADEMIC PLANNING - COLLEGE PREPARATION

NOTE: College Board provides students with recommendations for each grade level as they prepare for a post-secondary education. The College Board checklists in our Academic Planning guide are great planning tools. Students may also visit the College Board website directly. Along with College Board, several vetted sources provide students and families with a wealth of information necessary to keep them on track during the college planning process. Some of those sources with links are listed below. Families are encouraged to visit those sites for self-guided understanding or visit with their academic counselor. A link to MISD Counselor information is also provided. These links represent a sampling of the many places we recommend for students/families. Again, if you have any questions please do not hesitate to visit with your counselor.

MISD GUIDANCE & COUNSELING DEPARTMENT	COLLEGE BOARD & BIG FUTURE (PAGES INCLUDED IN GUIDE)	FAFSA
TEXAS ONCOURSE	ACT	GENTEX
INSPIRED (GO CENTER)	NCAA	ROAD TRIP NATION



College Planning: 9th/10th Grade

There are some steps you can take as a ninth- and a 10th-grader to make sure you're on the right track for college. This list will help you navigate the college planning process.

9TH GRADE

- Create a four-year high school plan.** Think about what you'd like to accomplish in the next four years.
 - Make sure you know which high school courses are required by colleges, and that you're taking the right classes as early as the ninth grade. You can ask your counselor about what those "right" classes are.
 - Get to know the levels of courses offered by your school.
- Start thinking about your life after school,** including the types of jobs that might interest you. Of course, these will change — often — but it's good to start thinking about the possibilities.
 - Identify your interests — likes and dislikes — not just in classes but also in every area. This will help you focus on your goals.
 - Talk to other people, such as your school counselor, teachers, recent college graduates who are working, professionals in the community, etc., about careers you might find interesting.
- Meet with your high school counselor.** Your counselor knows how to help you get the most out of high school. Be sure to take some time during the school year to discuss post-high-school plans with him or her.
- Participate in extracurricular activities.** Academics aren't everything. Explore your interest in a sport, school club, music or drama group, or community volunteer activity.
 - Remember that colleges would rather see real involvement in one activity instead of a loose connection to several.
 - If you're interested in playing sports in college, research the National Collegiate Athletic Association (NCAA) eligibility requirements. The NCAA requires completion of certain core courses; you can find the specifics at ncaaclearinghouse.net.
- Save for college.** It's not too late to put money aside for college. Every little bit helps! Learning about financial aid early on can also help you down the road.
- Explore summer opportunities.** Look for a job, internship, or volunteer position that will help you learn about a field of interest.
- Get familiar with the PSAT-related assessments and SAT®.** Most four-year colleges consider applicants' scores on college admission test. Download the free Daily Practice for the New SAT app to get a feel for the kinds of questions you might face on test day.
- Take the PSAT™ 8/9.** If your school offers it, sign up to take the first of the College Board assessments to set a baseline. This test will help you build up your skills to take the SAT in 11th or 12th grade.

10TH GRADE

- Meet with your high school counselor — again.**
Be sure to meet with your school counselor to ensure that your course schedule is challenging enough to prepare you for college.
 - Check into any prerequisites for advanced-level junior- and senior-year courses.
- Take the PSAT/NMSQT® or PSAT™ 10.** Depending on your school, you might have the opportunity to take the PSAT/NMSQT in October or the PSAT 10 in February or March. It provides valuable feedback on your college readiness and a free, personalized plan to help you start getting ready for the SAT — and for college.
- Ask if the PSAT/NMSQT is offered to 10th-graders.** Although this test is usually given in the 11th grade, it is also often offered in the 10th grade. That's because it provides valuable feedback through the Student Score Report. You can then work on any of your academic weaknesses while there is still plenty of time to make improvements.
- Are you interested in attending a U.S. military academy?** If so, you should request a precandidate questionnaire.
- Along with your family, do some research about how to obtain financial aid.** Many students use financial aid to cover college costs. Find out what financial aid is, where it comes from, and how you can apply for it. Read the U.S. Department of Education's *Funding Your Education* (about federal aid programs).
- Attend college and career fairs.** The fairs often take place in the fall at your school or in your area.
- Participate in school activities or volunteer efforts.** Extracurricular activities can help you develop time-management skills and enrich your high school experience.
- Talk to your counselor** about your plans for life after high school. He or she can help you plan your schedule, search for colleges, and navigate the financial aid process. The more your counselor knows about you, the more he or she can help you along the way.
- Tour college campuses.** If possible, take advantage of vacation or other family travel time to visit colleges and see what they're like. Even if you have no interest in attending the college you are visiting, it will help you learn what to look for in a college.



College Application Checklist

Having a list of important tasks to complete for each college application will make the application process go smoothly and help you meet deadlines. Opting in to the College Board Opportunity Scholarships at [cb.org/opportunity](https://collegeboard.org/opportunity) can also give you chances at earning scholarships for completing some of these steps.

PLAN

To fill in all the blanks on the application form itself, you may have to dig up documents or get answers from your parents or guardians. Most students use online applications, but paper applications are usually available too. There are also services that let you complete one application online and submit it to several colleges like the Coalition Application, Common Application, and Universal College Application.

	College 1	College 2	College 3	College 4
Get information/application forms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Make a note about regular application deadline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Make a note about early application deadline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:

GRADES

The record of the classes you've taken and your grades are important parts of your application. Your high school should send your transcript, along with a school profile, directly to the colleges you're applying to. Ask your school counselor or principal how to arrange for this. And be sure to check the transcript for errors before it's sent.

	College 1	College 2	College 3	College 4
Request high school transcript sent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Request midyear grade reports sent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:



TEST SCORES

Most colleges require or recommend that you send scores from tests such as the SAT®. Colleges accept scores only from the testing organizations themselves. Visit bigfuture.org for more information and to learn more about the role of testing in college admission.

	<i>College 1</i>	<i>College 2</i>	<i>College 3</i>	<i>College 4</i>
Send SAT scores	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Send SAT Subject Test scores	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Send AP® scores	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:

RECOMMENDATION LETTERS

Many colleges require letters of recommendation from teachers or other adults who know you well. Ask your references well in advance of the deadlines to write you a recommendation. You may want to give them a short written summary of your achievements to help them write about you.

	<i>College 1</i>	<i>College 2</i>	<i>College 3</i>	<i>College 4</i>
Request recommendation letters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Send thank-you notes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:

ESSAYS

Your essays are a chance for you to give admission officers a better idea of your character and strengths. Remember to proofread your essays carefully before you send them in.

	<i>College 1</i>	<i>College 2</i>	<i>College 3</i>	<i>College 4</i>
Draft initial essay(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proofread essay(s) for spelling and grammar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have two people read essay(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Revise your essay(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proofread your revision	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:

APPLICATIONS

Applying to college is a big job, but you can make it easier by breaking it down into a series of small steps.

	College 1	College 2	College 3	College 4
Complete college applications*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Use exact same name on all of your forms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Carefully review entire application	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have a family member or teacher review application	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:

*Visit [cb.org/opportunity](https://www.cb.org/opportunity) to check if you're eligible for the \$1,000 Apply to Colleges scholarship.

INTERVIEWS

It's a good idea to ask for an interview, even if it's not required. It shows you're serious and gives you a chance to connect with someone in the admission office. Even if a college is far away, you may be able to interview with a local alumnus. Read [What to Do Before and After Your College Interview](#) to prepare.

	College 1	College 2	College 3	College 4
Interview at college	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Look into an alumnus interview	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Send thank-you note(s) to interviewer(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:

SEND AND TRACK YOUR APPLICATION

Once you've completed your application, follow these tips to make sure all the parts get to where they're going.

	College 1	College 2	College 3	College 4
Make copies of all application materials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Apply online	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Include application fee	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sign application	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm receipt of application materials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Send supplemental material, if needed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mail your institutional aid form, if needed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mail state aid form, if needed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:

FINANCIAL AID

College is usually more affordable than many families think, thanks to financial aid. Below are key steps to navigating the financial aid process:

	College 1	College 2	College 3	College 4
Make a note of priority financial aid deadline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Make a note of regular financial aid deadline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Submit FAFSA (Opens October 1)*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Submit CSS Profile™, if needed (Opens October 1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Submit college aid form, if needed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:

*Visit [cb.org/opportunity](https://bigfuture.org/opportunity) to check if you're eligible for the \$1,000 Complete the FAFSA scholarship.

DECISION

You've received several college admission offers. Now comes the hard part: Which one do you choose? Find out how to make the best decision for you.

	College 1	College 2	College 3	College 4
Receive admission letter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Receive financial aid award letter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Get more information about each college	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ask questions about student resources and services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Compare college features and things you want	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Compare financial aid awards side by side	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Make a decision	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Respond to college you're attending	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Respond to colleges whose offers you're declining	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Send deposit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Send final high school transcript	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:

Visit bigfuture.org for more information.



College Planning: 12th Grade

Want to know if you're on track in the college application process? This checklist shows you what you should be doing, and when.

When you complete steps marked with * you may be eligible for College Board Opportunity Scholarships. Learn more at: cb.org/opportunity.

FALL

- Strengthen Your College List***: Meet with a counselor about your college choices and, if you've not yet done so, download college applications and financial aid forms. Make sure you have a balanced list of academic safety, fit, and reach schools. Plan to visit as many of these colleges as possible.
- Create a master list or calendar that includes:**
 - Tests you'll take and their fees, dates, and registration deadlines
 - College application due dates
 - Required financial aid application forms and their deadlines (aid applications may be due before college applications)
 - Other materials you'll need (recommendations, transcripts, etc.)
 - Your high school's application processing deadlines
- Ask a counselor** to help you request a fee waiver if you can't afford application or test fees.
- Improve Your Score***: Many seniors retake the SAT in the fall. Additional coursework and practice with Official SAT Practice on Khan Academy® since your last test could help you boost your performance. Plus you already know what to expect on test day.
- Be sure** to have your SAT scores sent to the colleges to which you are applying.
- Complete the FAFSA***: To apply for most financial aid, you'll need to complete the FAFSA. Oct. 1 is the first day you can file the FAFSA.
- Complete the CSS Profile**: CSS Profile™ is an online application used by certain colleges and scholarship programs to determine eligibility for their aid dollars.
- Prepare** early decision/early action or rolling admission applications as soon as possible. Nov. 1–15: Colleges may require test scores and applications between these dates for early decision admission.
- Ask a counselor or teacher** for recommendations if you need them. Give each teacher or counselor an outline of your academic record and your extracurricular activities. For each recommendation, provide a stamped, addressed envelope and any college forms required.
- Write first drafts** and ask teachers and others to read them if you're submitting essays. If you're applying for early decision, finish the essays for that application now.
- Apply to College***: Submit your applications to the schools that you want to attend.
- Ask counselors** to send your transcripts to colleges. Give counselors the proper forms at least two weeks before the colleges require them.

WINTER

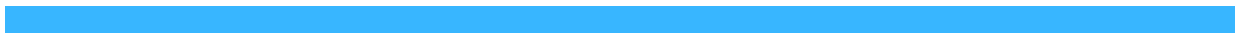
- Keep photocopies** as you finish, and send your applications and essays.
- Give the correct form** to your counselor if the college wants to see second-semester grades.
- Have your high school send a transcript**—it is sent separately by mail to colleges if you apply online to colleges.

SPRING

- Keep active in school.** If you are waitlisted, the college will want to know what you have accomplished between the time you applied and the time you learned of its decision.
- Visit your final college before accepting.** You should receive acceptance letters and financial aid offers by mid-April. Notify your counselor of your choice. If you have questions about housing offers, talk to your counselor or call the college.
- Inform every college** of your acceptance or rejection of the offer of admission and/or financial aid by May 1. Colleges cannot require your deposit or your commitment to attend before May 1. Talk to your counselor or adviser if you have questions.
- Send your deposit** to one college only.
- Take any AP® Exams.** Show what you've learned in your AP classes. A successful score could even earn you credit, advanced placement, or both in college.
- Waitlisted by a college?** If you intend to enroll if you are accepted, tell the admission director your intent and ask how to strengthen your application. Need financial aid? Ask whether funds will be available if you're accepted.
- Work with a counselor** to resolve any admission or financial aid problems.
- Ask your high school** to send a final transcript to your college.
- Review your financial aid awards:** Not all financial aid awards are the same, so it's important to choose the aid package that's best for you and your family. Be sure to note what you have to do to continue receiving financial aid from year to year, and how your aid might change in future years.

II.

ADVANCED ACADEMICS



II. ADVANCED ACADEMICS

ADVANCED ACADEMICS



GENERAL INFORMATION

The Advanced Placement Program® (AP®) is a collaborative effort among motivated students, dedicated teachers, and committed high schools, colleges, and universities. Since its inception in 1955, the Program has allowed millions of students to take college-level courses and exams and to earn college credit or placement while still in high school. Sixty percent of U.S. high schools currently participate in the AP Program.

Each AP course has a corresponding exam that participating schools worldwide administer in May. Except for Studio Art, which is a portfolio assessment, AP Exams contain multiple-choice questions and a free-response section (either essay or problem-solving). AP Exams represent the culmination of AP courses and are thus an integral part of the Program. As a result, MISD fosters the expectation that students who enroll in an AP course will go on to take the corresponding AP Exam.

Most colleges and universities in the U.S., as well as colleges and universities in more than 30 other countries, have an AP policy granting incoming students credit, placement, or both on the basis of their AP Exam grades. Many of these institutions grant up to a full year of college credit (sophomore standing) to students who earn a sufficient number of qualifying AP grades.

To receive weighted credit for an AP course, students must be enrolled in the course and

receive a 70 or higher in the course. Students are encouraged to take the corresponding College Board AP exam in May (See the Pre-AP and College Board AP section of the MISD High School Course Description Guide or visit www.collegeboard.com for exam dates and information). Weighted credit will automatically be given to students who receive passing grades in Pre-AP courses.

AP EXAM FEES & FEE REDUCTIONS

The fee for each exam is \$96. (This College Board fee is subject to change without notice.) Due to the loss of state and federal funds, the MISD will resume the practice of charging students a portion of the Advanced Placement exam cost. Students and their families will be responsible for any additional fees incurred based on testing decisions (unused, cancelled, missed exams or testing irregularities). There will be no refunds issued after November 15th.

COLLEGE & UNIVERSITY AP CREDIT POLICY

Advanced Placement credit policies vary. Individual college and university AP credit policies may be accessed through the College Board website at: <http://collegesearch.collegeboard.com/apcreditpolicy/index.jsp>

PRE-AP & AP ENGLISH LANGUAGE ARTS

Summer reading selections and other important information is listed on the MISD ELAR webpage.

PRE-ADVANCED PLACEMENT ENGLISH I

Course Number: 2013

Placement: 9

Credits: 1

Prerequisite: 8th Grade English or 8th Grade Honors English

This course is for students who have demonstrated superior skills and who are sufficiently motivated to accomplish challenging assignments. It is an in-depth study of literary and informational pieces such as poetry, plays, short stories and novels. Students also concentrate on language acquisition, critical thinking skills, and advanced composition. Summer reading will be expected of all students.

PRE-ADVANCED PLACEMENT ENGLISH II

Course Number: 2023

Placement: 10

Credits: 1

Prerequisite: English I or Pre-AP English I

To broaden the skills introduced in English I, this course stresses mastery of general essay skills, literary analysis, and critical thinking. Students enhance appreciation of the classics through exploration of various forms of world literature. Concepts and skills in writing, language, literature, and reading are stressed. Summer reading will be expected of all students.

WORLD STUDIES (PRE-AP ENGLISH II & AP WORLD HISTORY)

Course Number: 2025 & 2026

Placement: 10-12

Credits: 2

Prerequisite: See Prerequisites for Pre-AP English II & AP World History

The student will study World History and representative literary works in a combined social studies and English format that will allow the student to understand how history affects the development of literature and vice versa. This course will satisfy Pre-AP English II and Pre-AP World History credit

ADVANCED PLACEMENT ENGLISH III

Course Number: 2033

Placement: 11

Credits: 1

Prerequisite: English II or Pre-AP English II

This course challenges honors students to do college level reading and writing through in depth study of American literature, analysis of non-fiction prose, and extensive essay writing. Students taking this course should be highly motivated to improve analytical thinking and writing skills. This course is designed to prepare students for the Advanced Placement test. Summer reading is expected.

ADVANCED PLACEMENT ENGLISH IV

Course Number: 2040

Placement: 12

Credits: 1

Prerequisite: English III or AP English III

This course teaches literary analysis through prose, poetry, and drama. It reinforces skills learned in AP English III by applying them to a different field of study. Students taking this course should be highly motivated and strong in critical thinking and independent study skills. This course is designed to prepare students for the Advanced Placement test. In addition, summer reading is expected

PRE-AP & AP FINE ARTS

PRE-ADVANCED PLACEMENT ART II

Course Number: 3120

Placement: 10-12

Credits: 1

Prerequisite: Art I

This course is designed for the students who show superior skills and interest in art. Artistic awareness, critical thinking, imaginative expression, appreciation of art culture, and aesthetic judgment are emphasized.

ADVANCED PLACEMENT STUDIO ART: DRAWING PORTFOLIO

Course Number: 3145

Placement: 11-12

Credits: 1

Prerequisite: Student Application

This course is designed for students who are seriously interested in exploring drawing issues and media. Light and shade, line quality, rendering of form, composition, surface manipulation, and illusion of depth will be explored through a variety of media. This course is designed to prepare the student to submit an AP portfolio. All students are expected to submit a portfolio for Advanced Placement review.

ADVANCED PLACEMENT STUDIO ART: 2-D DESIGN PORTFOLIO

Course Number: 3146

Placement: 11-12

Credits: 1

Prerequisite: Student Application

This course is designed for students who are seriously interested in exploring 2-D design issues. Students will demonstrate a proficiency in 2-D design using a variety of art forms. These may include, but are not limited to, graphic design, digital imaging, photography, collage, illustration, printmaking, painting, etc. This course is designed to prepare the student to submit an AP portfolio. All students are expected to submit a portfolio for Advanced Placement review.

ADVANCED PLACEMENT STUDIO ART: 3-D DESIGN PORTFOLIO

Course Number: 3147

Placement: 11-12

Credits: 1

Prerequisite: Student Application

This course is designed for students who are seriously interested in exploring 3-D design issues. Students will demonstrate a proficiency in 3-D design using a variety of art forms. These may include, but are not limited to, graphic design, digital imaging, photography, collage, illustration, printmaking, painting, clay, wood, plaster, mold-making, found objects, papier-mâché, metals, jewelry, glass, plastics, cardboard, paper and fibers, etc. This course is designed to prepare the student to submit an AP portfolio. All students are expected to submit a portfolio for Advanced Placement review.

ADVANCED PLACEMENT MUSIC THEORY

Course Number: 3230

Placement: 9-12

Credits: 1

Prerequisite: Student Application

Written music theory is the study of musical designs, proportions, and inventive patterns that are transformed by the mind into aesthetic experiences. In general, students will gain fluency through both analysis and occasional writings of their own. In addition to studying written music theory (including scales, intervals, chords, etc.), students will be involved in ear training exercises/drills. Ear training is a multi-faceted endeavor. Its subdivisions include sight singing, melodic dictation, harmonic dictation, and rhythmic dictation. The drills involved with the study of ear training are to be practiced as dutifully as that on the student's performance instrument.

PRE-AP & AP LANGUAGES OTHER THAN ENGLISH

PRE-ADVANCED PLACEMENT CHINESE II

Course Number: 7513

Placement: 10-12

Credits: 1

Prerequisite: Chinese I

Chinese II continues to develop the oral skills with added emphasis on reading and writing skills. The focus is on the development of mid-to high-novice proficiency. Expansion of vocabulary and grammatical structures continues. Contrast between English and Chinese will strengthen the language learning process. Culturally related activities of selected Chinese speaking countries or regions will be explored.

PRE-ADVANCED PLACEMENT CHINESE III

Course Number: 7523

Placement: 11-12

Credits: 1

Prerequisite: Chinese II or Pre-AP Chinese II

Chinese III continues to develop the oral and writing skills with added emphasis on reading. The focus is on the development of novice mid-to intermediate-low proficiency in speaking with increased emphasis on Advanced Placement exam preparation. Expansion of vocabulary and grammatical structures continues. Culturally-related activities of selected Chinese regions will be explored.

ADVANCED PLACEMENT CHINESE IV

Course Number: 7530

Placement: 12

Credits: 1

Prerequisite: Pre-AP Chinese III

AP Chinese IV prepares students to demonstrate intermediate proficiency across the full range of language skills within a cultural frame of reference. The course will develop reading proficiency of authentic texts, fiction and non-fiction, listening proficiency of formal and colloquial authentic language, and writing proficiency in descriptive, expository, and persuasive styles. This course utilizes critical thinking, reading, and writing skills. The goal of this course is to prepare students to take the AP Chinese Language and Culture exam. This course is conducted predominately in Chinese.

PRE-ADVANCED PLACEMENT FRENCH II

Course Number: 7013

Placement: 9-12

Credits: 1

Prerequisite: French I

This course studies in more depth the language and culture with an emphasis on communicating in French. Students also study cultural history, contemporary attitudes of the Francophone world, and the geography of France. Contemporary French films may be used as a tool to study authentic use of the language and as examples of the cultures of the Francophone world.

PRE-ADVANCED PLACEMENT FRENCH III

Course Number: 7023

Placement: 10-12

Credits: 1

Prerequisite: French II or Pre-AP French II

This honors course expands students' development in speaking, listening, writing, and reading, especially in everyday situations. Literary selections are included for study of language and culture. The class uses contemporary French films as tools to study authentic language and as examples of the cultures of the Francophone world.

ADVANCED PLACEMENT FRENCH IV

Course Number: 7033

Placement: 11-12

Credits: 1

Prerequisite: Pre-AP French III

This course studies the development of personal expression in everyday situations with a focus on reading, writing, and language. The goal of this course is to prepare students to take the AP French Language exam.

PRE-ADVANCED PLACEMENT GERMAN II

Course Number: 7113

Placement: 9-12

Credits: 1

Prerequisite: German I

This course continues the study of basic German, concentrating on listening, speaking, reading, and writing skills. The focus for this honors class will be on real world projects.

PRE-ADVANCED PLACEMENT GERMAN III

Course Number: 7123

Placement: 10-12

Credits: 1

Prerequisite: German II or Pre-AP German II

This honors course is a continuation of the development of reading, writing, listening and speaking skills begun in German I and II. Geography, culture and functioning in everyday situations will be stressed. Students will begin to prepare for the AP test. This course may be combined with German IV.

ADVANCED PLACEMENT GERMAN IV

Course Number: 7140

Placement: 11-12

Credits: 1

Prerequisite: Pre-AP German III

This course is a continuation of the development of reading, writing, listening and speaking skills begun in German I and II. Advanced grammar and literature will be stressed. The goal of this course is to prepare students to take the AP German Language test. This course may be combined with German III.

PRE-ADVANCED PLACEMENT JAPANESE II

Course Number: 7713

Placement: 9-12

Prerequisite: Japanese I

Credits: 1

Pre-AP Japanese II further develops the skills introduced in Japanese I. Emphasis is on oral and written communication skills. Expansion of vocabulary and grammatical structures continues. Katakana letters and Chinese characters are introduced. Real life Japanese, such as informal speech styles, is also introduced.

PRE-ADVANCED PLACEMENT JAPANESE III

Course Number: 7720

Placement: 10-12

Prerequisite: Japanese II

Credits: 1

Pre-AP Japanese III provides for an in-depth development of the skills introduced in the previous courses. Further expansion of vocabulary, grammatical structures, and Chinese characters continues. Students are expected to develop communication skills in various real life settings.

ADVANCED PLACEMENT JAPANESE IV

Course Number: 7730

Placement: 10-12

Credits: 1

Prerequisite: Japanese III

AP Japanese IV provides for further development of communication skills in Japanese in preparation for the AP Japanese Language examination. Emphasis is on advanced grammar and composition as well as comprehension and speaking in a variety of real life settings. The goal of this course is to prepare students to take the AP exam.

PRE-ADVANCED PLACEMENT LATIN II

Course Number: 7413

Placement: 10-12

Credits: 1

Prerequisite: Latin I

This pre-advanced placement course requires a deeper study and understanding of the Latin language and Roman culture. This course continues to develop the vocabulary and grammar skills necessary to read and comprehend Latin passages. Students will continue to develop, through their readings, an understanding of Roman culture.

PRE-ADVANCED PLACEMENT LATIN III

Course Number: 7423

Placement: 11-12

Credits: 1

Prerequisite: Latin II or Pre-AP Latin II

In the final course of the recommended three-year sequence of language study, the Latin III student continues to develop the skills to read and comprehend slightly adapted and authentic classical passages at an advanced level. Students will continue to develop, through their readings, an understanding of Roman culture.

ADVANCED PLACEMENT LATIN IV

Course Number: 7430

Placement: 12

Credits: 1

Prerequisite: Pre-AP Latin III

This fourth-year course focuses on reading Latin poetry and prose with special emphasis on Vergil’s epic poem “The Aeneid” and the writings of Julius Caesar. The student will gain insight into the special conventions of poetry, as well as continued knowledge and understanding of the Greco-Roman world and mythology. Students may prepare for a variation of the College Board (CB) Latin Advanced Placement (AP) Examination, which focuses on poetry and prose in this Level IV course.

PRE-ADVANCED PLACEMENT SPANISH II

Course Number: 7320

Placement: 9-12

Credits: 1

Prerequisite: Spanish I

This course provides for an in-depth development of the skills introduced in Spanish I. Oral comprehension and reading skills are emphasized. Grammar, vocabulary, literature, and cultural studies are also included.

PRE-ADVANCED PLACEMENT SPANISH III

Course Number: 7340

Placement: 10-12

Credits: 1

Prerequisite: Spanish II, Pre-AP Spanish II or Spanish for Native Speakers I

This honors course is a continuation of the study of the Spanish language with special emphasis on reading comprehension, listening, speaking and advanced grammar and composition in preparation for the AP Spanish Language exam.

ADVANCED PLACEMENT SPANISH IV

Course Number: 7360

Placement: 11-12

Credits: 1

Prerequisite: Pre-AP Spanish III or Spanish for Native Speakers II

This course is an intensive study of Spanish language in preparation for the AP Spanish Language exam. Emphasis is on advanced grammar, literature, and composition as well as listening comprehension and speaking. The goal of this course is to prepare students to take the AP exam.

ADVANCED PLACEMENT SPANISH V

Course Number: 7360

Placement: 11-12

Credits: 1

Prerequisite: AP Spanish IV

This course is an intensive study of Spanish literature in preparation for the AP Spanish Literature exam. Emphasis is on advanced grammar, literature, and composition. The goal of this course is to prepare students to take the AP exam.

PRE-AP & AP MATHEMATICS

PRE-ADVANCED PLACEMENT ALGEBRA I

Course Number: 6033

Placement: 9

Credits: 1

Prerequisite: 8th grade Math

In addition to material usually covered in Algebra I, topics will be expanded and taught at a more rigorous, in-depth level. Emphasis will be placed on the application of concepts and skills introduced in Algebra I. The level of instruction/curriculum will focus on preparing the student for advanced placement mathematics courses.

PRE-ADVANCED PLACEMENT GEOMETRY

Course Number 6053

Placement: 9-10

Credits: 1

Prerequisite: Algebra I or Pre-AP Algebra I

In addition to material usually covered in Geometry, topics will be expanded and taught at a more rigorous, in-depth level. Emphasis will be placed on the application of concepts and skills introduced in Geometry. The level of instruction/curriculum will focus on preparing the student for advanced placement mathematics courses.

PRE-ADVANCED PLACEMENT ALGEBRA II

Course Number: 6080

Placement: 10-11

Credits: 1

Prerequisite: Algebra I or Pre-AP Algebra I

In addition to the material usually covered in Algebra, topics will be expanded and taught at a more rigorous, in-depth level. Emphasis will be placed on the application of concepts and skills introduced in Algebra II. The level of instruction/curriculum will focus on preparing the student for further advanced placement courses. **This course is recommended to take after Geometry. Students must successfully complete Algebra II prior to taking a higher math class. This course (or the regular level) is required for a Distinguished Level of Achievement or STEM Endorsement.**

PRE-ADVANCED PLACEMENT PRE-CALCULUS

Course Number: 6160

Placement: 11-12

Credits: 1

Prerequisite: Algebra I, Geometry, and Algebra II or Pre-AP versions

In addition to the topics studied in Pre-Calculus, topics will be expanded and taught at a more rigorous, in-depth level. Emphasis will be placed on the application of concepts and skills. The level of instruction/curriculum will focus on preparing the student for advanced placement courses.

II. ADVANCED ACADEMICS

ADVANCED PLACEMENT CALCULUS AB

Course Number: 6201

Placement: 11-12

Credits: 1

Recommended Prerequisite: Pre-AP Pre-Calculus

This course is designed for the student who has displayed both exceptional talent and diligence in the study of all other selected high school courses. Topics of study will include limits and continuity, derivatives, the fundamental theorem of calculus, special functions, techniques of integration, partial derivatives, and multiple integration. Analytic geometry will be included as needed. A TI-84 will be used in the classroom, and graphing calculators of this type will be required for homework. This course is the equivalent of a Calculus I course at the college level. At the conclusion of this course, students may take the AP Calculus AB Test for an opportunity to earn college credit in calculus.

ADVANCED PLACEMENT CALCULUS BC

Course Number: 6202

Placement: 11-12

Credits: 1

Recommended Prerequisite: Pre-AP Pre-Calculus

This course is an expansion of the Advanced Placement Calculus AB course. It includes all topics covered in Advanced Placement Calculus AB plus additional topics. Common topics require a similar depth of understanding. This course is the equivalent of a combined Calculus I and Calculus II course at the college level. Broad concepts and widely applicable models are emphasized. The TI-84 will be used in the classroom, and graphing calculators of this type will be required for homework. Extensions to AP Calculus AB include: parametric, polar, and vector functions; use of slope fields and Euler's method to find solutions to differential equations; improper integrals and series; solving logistic equations; polynomial approximations and series, including Taylor and Maclaurin series. At the conclusion of this course, students may take the AP Calculus BC exam for an opportunity to earn college credit in calculus.

ADVANCED PLACEMENT STATISTICS

Course Number: 6203

Placement: 11-12

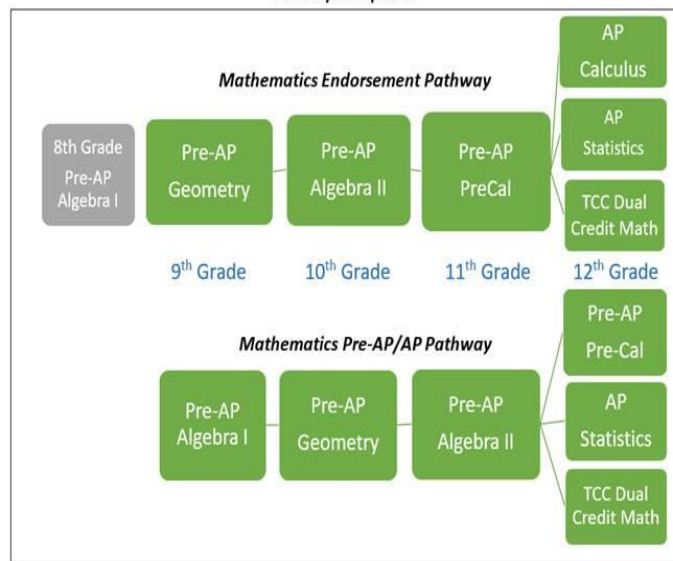
Credits: 1

Recommended Prerequisite: Algebra II or Pre-AP Algebra II and Geometry or Pre-AP Geometry

The purpose of this Advanced Placement course in statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to the four broad conceptual themes: Exploring data: observing patterns and departures from patterns; Planning a study: deciding what and how to measure; Anticipate patterns: producing models using probability and simulation; and Statistical inference: confirming models. At the conclusion of this course, students may take the AP Statistics Test for an opportunity to earn college credit in statistics.

High School Math College Readiness Pathways

Pre-AP/AP Options



PRE-AP & AP SCIENCE

PRE-ADVANCED PLACEMENT BIOLOGY

Course Number: 8003

Placement: 9-12

Credits: 1

Prerequisite: None

This course is designed for students who show an advanced aptitude toward science. Areas of study will include the essential elements and objectives of those in regular Biology I with greater depth and at a more accelerated rate. A greater emphasis will be placed on lab and the ability to evaluate, outline, organize, and report scientific information. Laboratory procedures, observation, measurement, classification, prediction, and reporting skills will be stressed. Therefore, strong math skills are important. The student should be proficient in reading and projects are required. Pre-AP Biology teachers deliver instruction on proper interaction with peace officers in the spring semester. TEA Recommendation: students in grades 9, 10, or 11.

PRE-ADVANCED PLACEMENT CHEMISTRY

Course Number: 8023

Placement: 10-12

Credits: 1

Prerequisite: Biology OR Pre-AP Biology AND Algebra I. Suggested Completion OR Concurrent Enrollment in a Second Year of High School Math

Pre-AP Chemistry is a rigorous science course that integrates advanced mathematical models to solve in depth science problems at an accelerated pace. Chemistry topics include: properties of elements, interpretation of the periodic table, acid-base concepts, naming chemical compounds, writing chemical formulas and equations, stoichiometry, thermochemistry, electrochemistry, and solution chemistry. Emphasis will be placed on the ability to evaluate, outline, organize, and report scientific information. Projects and extensive lab reports are required. This course has a summer assignment as shown at the end of the science section of the Pre-AP and AP Science Course Offerings of this course description guide.

ADVANCED PLACEMENT CHEMISTRY

Course Number: 8073

Placement: 11-12

Credits: 1

Preferred Prerequisite: Chemistry OR Pre-AP Chemistry Completion OR Concurrent Enrollment in Algebra II

AP Chemistry is designed to be the equivalent of a first year college general chemistry course. It is a rigorous and challenging course with special emphasis on applying mathematics to problem solving and as a means of expressing and modeling scientific inquiry. The course will provide an in depth treatment of atomic structure, gas laws, thermodynamics, stoichiometry, kinetics, equilibria, oxidation-reduction and electrochemistry. This course has a summer assignment as shown at the end of the science section of the Pre-AP and AP Science Course Offerings of this course description guide.

ADVANCED PLACEMENT BIOLOGY

Course Number: 8083

Placement: 11-12

Credits: 1

Preferred Prerequisite: Biology OR Pre AP Biology AND Chemistry OR Pre-AP Chemistry

This course provides students with an in-depth study of biochemistry, microbiology, botany and genetics at an accelerated pace. This course is primarily for students who are interested in a career in medicine, biology or other related fields. Students taking this course should be highly motivated and strong in critical thinking and independent study skills. Successful completion of AP Biology should prepare students for the Advanced Placement Examination and/or the second level college biology course.

ADVANCED PLACEMENT PHYSICS I

Course Number: 8095

Placement: 11-12

Credits: 1

Prerequisite: Algebra I, Geometry, AND Algebra II OR Concurrent Enrollment in Algebra II

This algebra-based course is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It will also introduce electric circuits.

ADVANCED PLACEMENT PHYSICS 2

Course Number: 8096

Placement: 11-12

Credits: 1

Science Prerequisite: Physics OR AP Physics 1; Math Prerequisites: Algebra I, Geometry, AND Algebra II OR Concurrent Enrollment in Alg II

This algebra-based course is the equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; atomic and nuclear physics.

ADVANCED PLACEMENT PHYSICS C: Mechanics

Course Number: 8097

Placement: 11-12

Credits: 1

Science Prerequisite: Completion of AP Physics 1 and Math Prerequisite: Concurrent enrollment or completion of Pre-Calculus

Use a differential and integral calculus-based approach to solve problems associated with concepts such as kinematics; Newton's laws of motion, work, energy and power; systems of particles and linear momentum; circular motion and rotation; oscillations; and gravitation. Build your understanding and critical thinking skills through inquiry-based, laboratory investigations and explore these physics concepts.

ADVANCED PLACEMENT PHYSICS C: ELECTRICITY and MAGNETISM

Course Number: 8098

Placement: 11-12

Credit: 1

Prerequisite: Completion of AP Physics C: Mechanics and Concurrent enrollment in AP Calculus

Use a differential and integral calculus-based approach to solve problems associated with concepts such as electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Build your understanding and critical thinking skills through inquiry-based, laboratory investigations and explore these advanced physics concepts.

ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE

Course Number: 8094

Placement: 11-12

Credits: 1

Prerequisite: Biology AND One Physical Science (IPC, Chemistry, or Physics)

This course is designed 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. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study and includes indoor and outdoor investigations/activities.

PRE-AP & AP SOCIAL STUDIES

ADVANCED PLACEMENT HUMAN GEOGRAPHY

Course Number: 9205

Placement: 9-12

Credits: 1

Prerequisite: None

AP Human Geography is equivalent to a college introductory geography course. The purpose of AP 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 who participate in AP Human Geography in their 9th grade year will develop habits of mind and skills necessary for success in future Advanced Placement courses. This course fulfills the requirement for 9th grade social studies and will count as an elective for students who already have a credit in World Geography.

ADVANCED PLACEMENT WORLD HISTORY

Course Number: 9210

Placement: 9-12

Credits: 1

Prerequisite: None

AP World History is a survey of world history from 1000 BCE to present. Emphasis is placed on preparing for the College Board AP exam which can earn the student credit or placement. The student will develop a greater understanding of the evolution of global processes and contacts and interaction with different type of human societies.

WORLD STUDIES AP WORLD HISTORY & PRE-AP ENGLISH II

Course Number: 2025, 2026

Placement: 10

Credits: 2

Prerequisite: See Prerequisites for Pre-AP English II

World Studies provides students with the opportunity to study world history and representative literary works in a combined format that will allow the student to understand how history affects the development of literature and vice versa. This course will satisfy Pre-AP English II and AP World History credit.

ADVANCED PLACEMENT EUROPEAN HISTORY

Course Number: 9200

Placement: 11-12

Credits: 1

Prerequisite: None

AP European History is an accelerated elective course covering the history of Europe from 1450 (Renaissance) to the present. Emphasis is placed on preparing for the College Board AP exam by practicing higher level skills including: analysis, drawing conclusions, evaluating and assessing historical events using primary and secondary sources and writing at a collegiate level.

ADVANCED PLACEMENT UNITED STATES HISTORY

Course Number 9060

Placement: 11

Credits: 1

Prerequisite: World History/AP World History or World Geography/AP Human Geography

AP U.S. History is an accelerated course for the college-bound student. This course covers the history of the United States from colonization to the present. Emphasis is placed on outside reading, essay development, and research. The course is designed to help students receive college credit for U.S. History by taking the Advanced Placement test.

ADVANCED PLACEMENT GOVERNMENT

Course Number: 9110

Placement: 12

Credits: ½

Prerequisite: US History or AP US History

This course is an examination of the philosophical underpinning of our constitutional system combined with historical development and current trends. The primary focus will be on the national level. Because half of the AP American Government and Politics examination requires essay responses, writing exercises will be emphasized including book reviews, critical interpretive essays, and policy papers.

ADVANCED PLACEMENT COMPARATIVE GOVERNMENT AND POLITICS

Course Number: 9120

Placement 11-12

Credits: ½

Prerequisite: None

AP Comparative Government and Politics introduces students to the rich diversity of political life outside the United States. This elective course uses a comparative approach to examine the political structures; policies; and the political, economic, and social challenges among six selected countries: Great Britain, Mexico, Russia, Iran, China, and Nigeria. Additionally, students examine how different governments solve similar problems by comparing the effectiveness of approaches to many global issues.

ADVANCED PLACEMENT MACROECONOMICS

Course Number: 9150

Placement: 12

Credits: ½

Prerequisite: US History or AP US History

This AP course in macroeconomics is designed to give students a thorough understanding of the principles of economics that apply to an economic system as a whole while placing particular emphasis on the study of national income and price determination, and develop students' familiarity with economic performance measures, economic growth, & international economics.

ADVANCED PLACEMENT MICROECONOMICS

Course Number: 9151

Placement: 12

Credits: ½

Prerequisite: US History or AP US History

This elective course in microeconomics is designed to give students a thorough understanding of the principles of economics as they apply to individuals, household, and firms within the overall economic system. It places particular emphasis on the study of markets and market structures and seeks to develop students' familiarity with the theory of the firm, resource markets, market efficiency, and inequity, government regulation of markets.

ADVANCED PLACEMENT PSYCHOLOGY

Course Number: 9173

Placement 11-12

Credits: ½

Prerequisite: None

This is a college level course that incorporates an understanding of psychology, the scientific study of human behavior and the mental process. Topics that will be introduced will include memory and thought, body and behavior, sleep and dreams, motivation and emotion, personality and individuality, life span, stress and health, human relationships, psychological research, careers and statistics in psychology and therapy.

PRE-AP & AP TECHNOLOGY

PRE-ADVANCED PLACEMENT COMPUTER PROGRAMMING I

Course Number: 1263CT

Placement: 9-12

Credits: 1

Prerequisite: Algebra I & Geometry or concurrent enrollment

In this fast-paced, hands-on, advanced course environment (high-level programming), students will learn the fundamentals of computer science and computer programming utilizing a high-level language such as C++ or Java. Students will learn programming methodologies, algorithm development, problem solving skills and the ethical and social considerations for the appropriate use of computer software and hardware. Students will see how computer programs are used in industry and write basic programs utilizing similar techniques. Other 4th generation "learning" programming environments, such as Jeroo, will also be studied to help introduce and reinforce skills.

ADVANCED COMPUTER PROGRAMMING II

Course Number: 1263CT

Placement: 10-12

Credits: 1

Prerequisite: Comp Prog or Pre-AP Comp Prog

This course is designed for the student who anticipates a career in a technological field, such as physical science, mathematics, engineering, or computer science. Students will learn object oriented programming concepts using JAVA. Object-oriented programming will be emphasized. Classic algorithms, programming control structures, advanced data structures and the AP Computer Science A case study will be examined. Upon completion of this course, students may take the AP Computer Science A Exam.

AP COMPUTER SCIENCE PRINCIPLES

Course: 1266CT

Placement: 9-12

Credits: 1

Prerequisite: Algebra I

Students will learn about everyday computing tools. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information. Students will learn the foundation of computer science. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations and concepts.

PROJECT LEAD THE WAY - STEM**INTRODUCTION TO ENGINEERING DESIGN****Course: 1835CT****Placement: 9-12****Credits: 1**

Engineering is the practice of manipulating the natural world to fit our needs as humans. In this introductory course, students will learn the basics of design and communication so that they can understand and use the methods in which our designed world is created. Products are created, analyzed, and communicated using solid modeling design software. This class combines math, art, science, and group skills to prepare students for creative and exciting jobs. This course allows students the opportunity to earn transcribed college credit to articulate college credit hours upon high school graduation through participating college/university Tech Prep programs. This is a Project Lead the Way course.

PRINCIPLES OF ENGINEERING**Course: 1836CT****Placement: 10-12****Credits: 1****Prerequisite: Intro to Engineering AND Algebra I AND Biology AND Chemistry or IPC**

This course is designed to help students understand the field of engineering/engineering technology by exploring various technology systems and manufacturing processes. The activities and projects offered through this course are designed to help students learn how engineers and technicians use math, science, and technology in an engineering problem solving process. This course allows students the opportunity to earn transcribed college credit or to articulate college credit hours upon high school graduation through participating college/university Tech Prep programs. This is a Project Lead the Way course. Note: Course can be used as an additional science credit for graduation.

COMPUTER INTEGRATED MANUFACTURING**Course: 1838CT****Placement: 10-12****Credits: 1****Prerequisite: Principles of Engineering**

This course applies principles of robotics and automation. Students learn to program machinery to bring their 3D design while introducing computer programming and the processes used to manufacture today's consumer products. This course builds on the skills students develop in Introduction to Engineering Design and Principles of Engineering. Students use CNC equipment to produce actual models of their three-dimensional designs. Fundamental concepts of robotics used in automated manufacturing and design analysis are included. This course allows students the opportunity to earn transcribed college credit or to articulate college credit hours upon high school graduation through participating college/university Tech Prep programs. This is a Project Lead the Way course.

AEROSPACE ENGINEERING**Placement: 10-12****Course: 1834CT****Credits: 1****Prerequisite: Principles of Engineering**

Aerospace Engineering is the study of the engineering discipline which develops new technologies for use in aviation, defense systems and space exploration. The course explores the evolution of flight, flight fundamentals, navigation and control, aerospace materials, propulsion, space travel, orbital mechanics, ergonomics, remotely operated systems and related careers. In addition, the course presents alternative applications for aerospace engineering concepts. Students will analyze, design and build aerospace systems. While implementing these designs, students will continually hone their interpersonal skills, creativity and application of the design process. Students apply knowledge gained throughout the course in a final multi-media project to envision their future professional accomplishments. This is a Project Lead the Way course.

CIVIL ENGINEERING & ARCHITECTURE**Course: 1861CT****Placement: 10-12****Credits: 1****Prerequisite: Principles of Engineering**

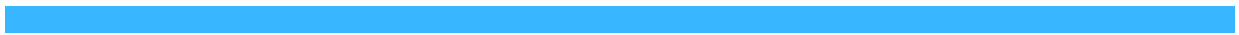
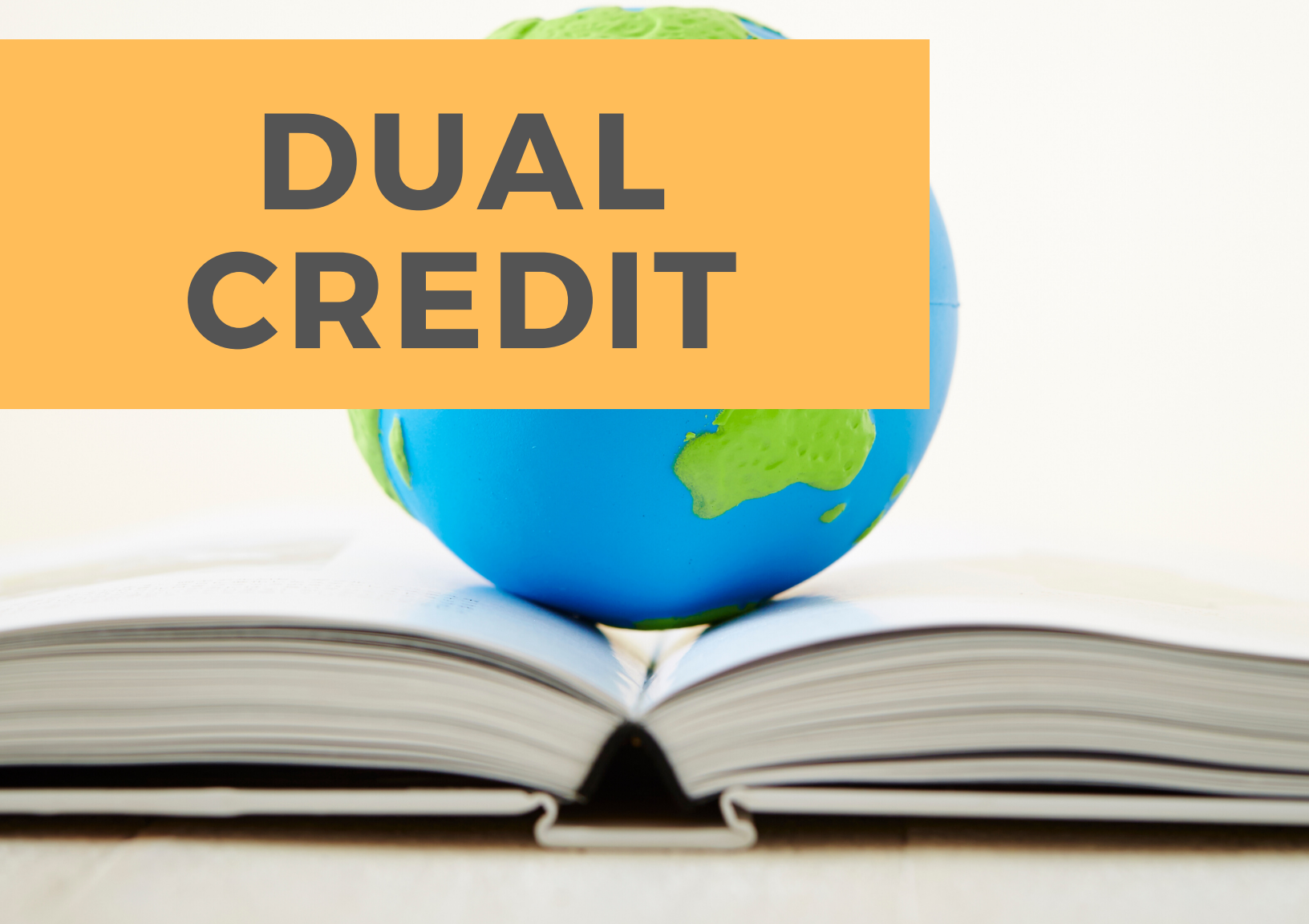
Civil Engineering & Architecture is the study of the design & construction of residential & commercial building projects. The course includes an introduction to many of the varied factors involved in building design & construction including building components & systems, structural design, storm water management, site design, utilities & services, cost estimation, energy efficiency & careers in the design & construction industry. This is a Project Lead the Way course.

ENGINEERING DESIGN & DEVELOPMENT**Course: 1845CT****Placement: 11-12****Credits: 1****Prerequisite: CIM OR Aerospace Engineering OR Civil Engineering & Architecture**

This course will provide students with the opportunity to master the design process to solve a design problem of their choosing. They will use prior knowledge to develop, model test their solutions. Each team will present and defend their solutions to a panel of experts. This is a Project Lead the Way course.

III.

DUAL CREDIT



III. DUAL CREDIT PROGRAMS IN MISD

DUAL CREDIT



TARRANT COUNTY COLLEGE (TCC)



**Tarrant
County
College**

Mansfield Independent School District, in conjunction with the Tarrant County College Southeast Campus, offers several courses for dual credit to MISD sophomores, juniors

and seniors. Courses are offered in a variety of formats including face to face instruction on MISD campuses, virtual instruction and some blended models. **Students will receive high school and college credit** for TCC courses taken and passed through the MISD. TCC courses are figured into the student's cumulative grade average as honors courses. TCC courses follow the guidelines of TCC indicated in the syllabus for the course. These include but are not limited to absences and grades. Additionally, students must earn a 70 or higher in the dual credit course to continue in high school dual credit courses. Since the student is being given early enrollment at TCC for these courses, the student must be enrolled in a MISD high school throughout the course, or he/she will be dropped from TCC. MISD students must have the following to be enrolled in TCC courses: **80+ overall grade average and satisfactory scores on the TSI.**

HB505

In the fall of 2015, HB 505 was passed concerning dual credit opportunities. HB 505 states the following:

A rule may not limit:

1. the number of dual credit courses or hours in which a student may enroll while in high school
2. the number of dual credit courses or hours in which a student may enroll each semester or academic year
3. the grade levels at which a high school student may be eligible to enroll in a dual credit course.

Based on this legislation, students now have access to college courses as early as 9th grade and may take multiple college courses if desired as long as they meet eligibility requirements. However, students may only access courses at a discounted rate within the parameters of the district dual credit program. Any courses taken outside of these parameters must be outside of the school day and at the student's expense. **Only courses within our agreement established with the district's specified higher education partners and meeting the district's curriculum prerequisites found in the Course Description Guide can be coded for dual credit.** All other courses will be concurrent or college credit only.

III. DUAL CREDIT PROGRAMS IN MISD

MISD DUAL CREDIT PROGRAM

This program allows students to earn college credit while still in high school. Students interested in the dual credit must have an 80+ GPA, take and pass the TSI and be classified as sophomores to be eligible for dual credit. Dual credit classes are available on every high school campus. Students will take courses on their home campus, but in-district travel may be required for certain courses if they do not make on the home campus. Some courses may be offered in an on-line format or a blended model. Summer courses are held in a centralized location for all campuses. Students in the MISD have the opportunity to earn up to 48 college hours before graduation.

How does the dual credit in MISD work?

- Students may begin select course work in 10th grade
- Students may take up to 3 courses during the fall and spring semester.
- Students may take a total of 2 courses in the summer.
- Students have the opportunity to earn a maximum of 48 hours.
- Students should take courses that meet their individual needs and support their future college degree plans.

TSI INFORMATION

All students taking college-level courses must satisfy the Texas Success Initiative (TSI) requirements. Students must meet standards at the date of testing. Scores are valid for 5 years. **To be eligible for MISD sponsorship/scholarship all students must pass the TSI.** For information on the TSI and testing opportunities, please contact your high school counselor. *Testing is scheduled in advance and/or by appointment only with a Pre-Assessment Activity to be completed prior to the testing session.*

TSI PASSING SCORES	
READING	351+
WRITING/ESSAY	4+ and 340+ on Multiple Choice
MATH	350+

REGISTRATION PROCESS

If your child is interested in taking dual credit courses next year, below are the necessary steps to enroll.

1. The first step is to confirm that you have the 80+ GPA required to take a dual credit class under MISD sponsorship. You can confirm your GPA in the counseling office. The secretaries can usually help you with this if you have your ID.
2. The next step is to complete the application on Apply Texas. You will find this application at https://www.applytexas.org/adappc/gen/c_start.WBX. We have a quick guide available to assist you through the process. The application should be completed as soon as possible to allow sufficient time for testing. Application must be completed one month prior to testing. After completing your application, you should receive an e-mail within a week with your TCC ID#. This is not the same as your MISD ID#.
3. Once you receive your e-mail from TCC with your ID#, please print this e-mail and take it to your counselor or share with your counselor so that we have a record of your TCC ID#.
4. A Pre-assessment activity (PAA) is required prior to TSI testing. Opportunities to view the PAA will be held at each home campus. These sessions may be during lunch, after school or during the school day.
5. The fifth step is to take the TSI assessment. The student will need his/her TCC ID# for testing. The test measures the student's reading, writing and math skills in order to make sure the student can successfully complete college level work. In order to take the TSI, steps 1-4 must be complete. If the TSI is passed, the student may proceed to the next step.
6. The sixth step is for the student to choose courses with the high school counselor.
7. The seventh step is for students to complete self-registration in WebAdvisor. This happens the semester before each course begins during a designated TCC window. Registration sessions will occur on each campus to assist students.
8. The final step is for new students is to register for a mandatory orientation session. These instructions will be provided during the registration sessions. Students who do not attend one of the mandatory orientation sessions will be dropped.

III. DUAL CREDIT PROGRAMS IN MISD

GRADING AND ATTENDANCE INFORMATION

Although students register for TCC courses with the assistance of their high schools, the students will have to follow TCC procedures for requesting transcripts of college credit. Students must remember that TCC courses will become part of their **permanent college record. Student initiated schedule changes or teacher changes are not permitted.**

It is also important to remember the following:

- Students are treated as college students by the TCC faculty.
- The college professors do not call home if the student is absent or not turning in work.
- TCC is not subject to the grading policy or attendance policy of MISD.
- Students must adhere to the attendance and grading deadlines dictated in the syllabus for each course.
- TCC grades may be accessed by the student through the TCC Blackboard online grading system.
- It is the student's responsibility to contact his/her TCC professor(s) in the event of any absence. This contact needs to be made prior to the absence unless the absence is due to a sudden illness.
- The professor determines what provisions if any are allowed for the absence.
- Students who will miss class for a UIL event, should speak to the instructor as soon as possible to discuss assignments that will be missed.
- Students who attend TCC courses must be responsible and dependable.
- **Senior students who fail a spring course at TCC (English, Government, or Economics) may not be able to graduate and will have to repeat the course through another avenue such as summer school.**

Students will remain on the MISD calendar. Therefore, in order to make up for MISD holidays which are not TCC holidays, students may be required on occasion to attend TCC courses on Fridays or certain MISD holidays (bad weather make-up days, etc.). In the spring semester, the MISD and TCC spring breaks may fall on two different weeks, so as stated previously, there may be Fridays or certain MISD holidays on which TCC classes have been scheduled for this purpose. Students should be given prior notice by their TCC professor(s) regarding any changes or additional class times.

To receive weighted credit for a Tarrant County College dual credit course, students must be enrolled in the course and receive a minimum grade of 70 in the course.

COURSE COST

\$115 per course

\$25 per course if eligible for free or reduced lunch

Payments should be made to the high school campus bookkeeper not TCC. The MISD reserves the right to remove students from TCC courses if they have not met their financial obligations regarding TCC tuition and/or fees

TEXTBOOKS

MISD provides textbooks for all dual credit courses. Books are checked out to students for the duration of the course. Student return books to MISD upon completion of the course. Books are issued on the home campus. All text books are part of a 3-year agreement with TCC. No alternative text is required of the students.

DROP POLICY

Dropping a class

Students will be allowed to drop a TCC course within the guidelines/timeline specified by TCC. Students dropping a class will have three options:

Option 1: No longer participate in the dual credit program

Option 2: Remain in the dual credit program but reimburse the district for funds lost. This amount may not be confirmed until the TCC invoice is received. All funds must be paid to the home campus prior to the start of the next semester.

Option 3: Remain in the dual credit program at the full tuition rate. In some instances, it is more cost effective or affordable to pay the full tuition rate depending on the number of courses your student plans to take.

Please note: Dropping courses that do not have an equivalent coursed on the high school campus (ie College Algebra) may result in a shortage of credits towards graduation requirements.

REFUNDS

MISD does not refund student tuition.

III. DUAL CREDIT PROGRAMS IN MISD

FREQUENT DUAL CREDIT COURSE OFFERINGS

10th grade Year

Fall (Choose 1)	Spring (Choose 1)
American Sign Language (SLNG 1404)	American Sign Language II (SLNG 1405)
	Public Speaking (SPCH 1315)

11th grade year (Max of 3 courses per semester)

Fall (Choose 1-3)	Spring (Choose 1-3)
English Composition I (ENGL 1301)	English Composition II (ENGL 1302)
US History (HIST 1301)	US History (HIST 1032)
Sociology (SOVI 1301)	Psychology (PSYC 2301)
Psychology (PSYC 2301)	Sociology (SOVI 1301)
Statistics (MATH 1342)	College Algebra (MATH 1314)
College Algebra (MATH 1314)	Pre-Calculus (MATH 2412)
American Sign Language (SLNG 1404)	American Sign Language II (SLNG 1405)
	Texas Government (GOVT 2306)

12th grade year (Max of 3 courses per semester)

Fall (Choose 1-3)	Spring (Choose 1-3)
English Composition I (ENGL 1301)	English Composition II (ENGL 1302)
British Literature I (ENGL 2322)	British Literature II (ENGL 2323)
Federal Government (GOVT 2305)	Economics (ECON 2301)
Economics (ECON 2301)	Federal Government (GOVT 2305)
Sociology (SOVI 1301)	Psychology (PSYC 2301)
Psychology (PSYC 2301)	Sociology (SOVI 1301)
Statistics (MATH 1342)	College Algebra (MATH 1314)
College Algebra (MATH 1314)	Pre-Calculus (MATH 2412)
American Sign Language I (SLNG 1404)	American Sign Language II (SLNG 1405)
American Sign Language III (SLNG 1344)	American Sign Language IV (SLNG 1345)
Biology for NSM I (BIOL 1408)	Biology for NSM II (BIOL 1409)
	Texas Government (GOVT 2306)

(TCC) UNITED STATES HISTORY

Course Number: 0972

Placement: 11

Credits: 1

Prerequisite: Successful completion of 1 History class. 80+ Overall GPA & TSI Assessment.

TCC corresponding college credit:

HIST 1301 – US History to 1876 (3 semester hours)

HIST 1302 – US History since 1876 (3 semester hours)

This is a regular college-level US History course in which dual credit will be awarded for college US History and high school US History. Students may receive up to 6 hours of college credit. Students will attend TCC classes on their home campus. This course meets the high school graduation requirement. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes.**

(TCC) ENGLISH COMPOSITION

Course Number: 0252

Placement: 11-12

Credits: 1

Prerequisite: Successful completion of English II. 80+ Overall GPA & TSI Assessment

TCC corresponding college credit:

ENGL 1301 – Composition I (3 semester hours)

ENGL 1302 – Composition II (3 semester hours)

This is a regular college-level English course in which dual credit will be awarded for college freshman English and English III or IV. The student will receive 3 hours college credit and ½ high school credit for each term completed successfully. Students will attend TCC classes on their home campus. This course meets the high school graduation requirement. **The reading and writing TSI Assessments must be passed before students will be allowed to enroll in TCC classes.**

III. DUAL CREDIT PROGRAMS IN MISD

(TCC) ENGLISH – BRITISH LITERATURE

Course Number: 0253

Placement: 12

Credits: 1

Prerequisite: ENGL 1302; 80+ Overall GPA & TSI Assessment

TCC corresponding college credit:

ENGL 2322 – British Literature I (3 semester hours)

ENGL 2323 – British Literature II (3 semester hours)

This is a regular college-level English course in which dual credit will be awarded for college freshman English and English IV. The student will receive 3 hours college credit and ½ high school credit for each term completed successfully. Students will attend TCC classes on their home campus. Required prerequisite: ENGL 1302. This course meets the high school graduation requirement.

The reading and writing TSI Assessments must be passed before students will be allowed to enroll in TCC classes.

(TCC) PUBLIC SPEAKING

Course Number: 0260/0261

Placement: 10-12

Credits: ½

Prerequisite: 80+ Overall GPA & TSI Assessment

TCC corresponding college credit:

SPCH 1315 – Introduction to Speech Communication (3 semester hours)

This is a college speech course that applies communication theory to help develop students' speaking abilities, as well as ability to effectively evaluate oral presentations. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes. This course will meet the professional communications requirement for graduation. (MISD requirement only)**

The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes. This course will meet the professional communications requirement for graduation. (MISD requirement only)

(TCC) ALGEBRA

Course Number: 0610

Placement: 11-12

Credits: ½

Prerequisite: Successful completion of Algebra II, 80+ Overall GPA & TSI Assessment

TCC corresponding college credit:

MATH 1314 – College Algebra (3 semester hours)

This is a regular college-level Algebra class with an in-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Students will attend TCC classes on their home campus. This course meets .5 of the fourth year math high school graduation requirement. **The math TSI Assessment must be passed before students will be allowed to enroll in TCC classes.**

The math TSI Assessment must be passed before students will be allowed to enroll in TCC classes.

(TCC) STATISTICS

Course Number: 0614

Placement: 11-12

Credits: ½

Prerequisite: Successful completion of Algebra II, 80+ Overall GPA & TSI Assessment

TCC corresponding college credit:

MATH 1342 – Elementary Statistical Methods (3 semester hours)

This is a regular college-level Statistics course examining collection, analysis, presentation and interpretation of data. Students will attend TCC classes on their home campus. This course meets .5 of the fourth year math high school graduation requirement.

The reading and math TSI Assessments must be passed before students will be allowed to enroll in TCC classes.

(TCC) PRE-CALCULUS

Course Number: 0617

Placement: 11-12

Credits: 1

Prerequisite: Successful completion of MATH 1314 & TSI Assessment

TCC corresponding college credit: MATH 2412 – Pre-Calculus (4 semester hours). This is a regular college-level Pre-Calculus course offering an in-depth study of algebra, trigonometry, and other topics for calculus readiness. Students will attend TCC classes on their home campus. This course meets the fourth year math high school graduation requirement. This course is double blocked. **The math TSI Assessment must be passed before students will be allowed to enroll in TCC classes.**

The math TSI Assessment must be passed before students will be allowed to enroll in TCC classes.

(TCC) MATHEMATICS FOR BUSINESS

Course Number: 0611

Placement: 12

Credits: ½

Prerequisite: 80+ Overall GPA & TSI Assessment

TCC corresponding college credit: MATH 1324 – Mathematics for Business and Social Science (3 semester hours). This is a regular college-level mathematics course including the study of algebra, mathematics of finance, linear programming, systems of linear equations, applications to management, economics and business. Students will attend TCC classes on their home campus. **The math TSI Assessment must be passed before students will be allowed to enroll in TCC classes.**

The math TSI Assessment must be passed before students will be allowed to enroll in TCC classes.

III. DUAL CREDIT PROGRAMS IN MISD

(TCC) MATHEMATICS FOR BUSINESS II

Course Number: 0612

Placement: 12

Credits: ½

Prerequisite: Math 1324 or Math 1314

TCC corresponding college credit: MATH 1325 – Mathematics for Business and Social Science II (3 semester hours). This is a regular college-level mathematics course including the study of limits and continuity, derivatives, graphing, and optimization, exponential and logarithmic functions, antiderivatives, integration, applications to management, economics, and business. Students will attend TCC classes on their home campus. **The math TSI Assessment must be passed before students will be allowed to enroll in TCC classes.**

(TCC) BIOLOGY

Course Number: 0940

Placement: 12

Credits: 2

Prerequisite: 80+ Overall GPA & TSI Assessment

TCC corresponding college credit: BIOL 1408 – General College Biology I (4 semester hours) Fall Course
BIOL 1409 – General College Biology II (4 semester hours) Spring Course

This is a regular college-level introductory biology course for the non-science major in which dual credit will be awarded. Students may receive up to 8 hours of college credit and one credit for each semester, successfully completed. Students will attend TCC classes on their home campus. This course meets the fourth year science high school graduation requirement. This course is double blocked. **The reading TSI assessment must be taken before students will be allowed to enroll in TCC classes. (MISD requirement only)**

(TCC) GEOLOGY

Course Number: 0942

Placement: 11-12

Credits: 1

Prerequisite: 80+ Overall GPA & TSI Assessment

TCC corresponding college credit: GEOL 1401 – Earth Sciences (4 semester hours)

Survey of physical and historical geology, astronomy, meteorology, oceanography and related sciences. Students will attend this course at BBCTA after the traditional day ends or during the summer and are responsible for their own means of transportation. This course meets the fourth year science high school graduation requirement. This course is double blocked. **The reading TSI assessment must be taken before students will be allowed to enroll in TCC classes. (MISD requirement only)**

(TCC) GOVERNMENT

Course Number: 0911 FALL /0912 SPRING

Placement: 12

Credits: ½

Prerequisite: 80+ overall GPA & TSI Assessment

TCC corresponding college credit: GOVT 2305 – Federal Government (3 semester hours)

This is a regular college-level Political Science course in which dual credit will be awarded for college Political Science and Government. The student will receive 3 hours college credit and ½ high school credit when completed successfully. Students will attend TCC classes on their home campus. This course meets the high school graduation requirement. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes.**

(TCC) TEXAS GOVERNMENT

Course Number: 0914

Placement: 12

Credits: ½

Prerequisite TSI Assessment and a C or better in ENGL 1301

This is a regular college-level Political Science course in which dual credit will be awarded for college Texas Government. The student will receive 3 hours of college credit and ½ high school credit when completed successfully. The emphasis of this course is the origin and development of the Texas Constitution, structure and powers of state and local government, federalism and inter-governmental relations, political participation, the election process, public policy, and the political culture of Texas. Students will attend TCC classes on their home campus. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes.**

(TCC) ECONOMICS

Course Number: 0915 FALL/0916 SPRING

Placement: 12

Credits: ½

Prerequisite: 80+ Overall GPA & TSI Assessment

TCC corresponding college credit: ECON 2301 – Principles of Macroeconomics (3 semester hours)

This is a regular college-level Economics course in which dual credit will be awarded for college Economics and high school Economics. The student will receive 3 hours college credit and ½ high school credit when completed successfully. Students will attend TCC classes on their home campus. This course meets the high school graduation requirement. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes. (MISD requirement only)**

III. DUAL CREDIT PROGRAMS IN MISD

(TCC) MICROECONOMICS

Course Number: 0918

Placement: 12

Credits: ½

Prerequisite: ECON 2301; 80+ Overall GPA & TSI Assessment

TCC corresponding college credit:

ECON 2302 – Principles of Microeconomics (3 semester hours) This is a regular college-level Economics course in which dual credit will be awarded for college Economics and high school Economics with an emphasis of the behavior of individual economic agents. The student will receive 3 hours college credit and ½ high school credit when completed successfully. Students will attend TCC classes on their home campus. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes. (MISD requirement only)**

(TCC) PSYCHOLOGY

Course Number: 0970

Placement: 11-12

Credits: ½

Prerequisite: 80+ overall GPA & TSI Assessment

TCC corresponding college credit:

PSYC 2301 – Introduction to Psychology (3 semester hours). This is a regular college-level Psychology course in which dual credit will be awarded for college Psychology and high school Psychology. The student will receive 3 hours college credit and ½ high school credit when completed successfully. Students will attend TCC classes on their home campus. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes.**

(TCC) SOCIOLOGY

Course Number: 0980

Placement: 11-12

Credits: ½

Prerequisite: 80+ overall GPA & TSI Assessment

TCC corresponding college credit: SOCI 1301 – Introduction to Sociology (3 semester hours)

This is a regular college-level Sociology course in which dual credit will be awarded for college Sociology and high school Sociology. The student will receive 3 hours college credit and ½ high school credit when completed successfully. Students will attend TCC classes on their home campus. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes.**

(TCC) ART HISTORY

Course Number: 0335

Placement: 11-12

Credits: ½

Prerequisite: 80+ overall GPA & TSI Assessment

TCC corresponding college credit: ART 1303 – Art History (3 semester hours)

This is a regular college-level Art course focused on exploring the purposes and processes in the visual arts including evaluation of selected works of painting, sculpture, architecture and industrial design related to everyday life. The student will receive 3 hours college credit and ½ high school credit when completed successfully. Students will attend TCC classes on their home campus. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes. (MISD requirement only)**

(TCC) DRAWING I

Course Number: 0332

Placement: 11-12

Credits: ½

Prerequisite: 80+ overall GPA & TSI Assessment

TCC corresponding college credit: ART 1316 – Drawing I (3 semester hours)

This is a regular college-level Art course investigating drawing media and techniques of drawing including descriptive and expressive possibilities. The student will receive 3 hours of college credit and ½ high school credit when completed successfully. Students will attend TCC classes on their home campus. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes. (MISD requirement only)**

(TCC) DANCE

Course Number: 0332

Placement: 11-12

Credits: ½

Prerequisite: 80+ overall GPA & TSI Assessment

TCC corresponding college credit: DANC 2303 – Dance Appreciation (3 semester hours). This is a regular college-level Dance course surveying primitive, classical, and contemporary dance and its interrelationship with cultural developments and other art forms. The student will receive 3 hours college credit and ½ high school credit when completed successfully. Students will attend TCC classes on their home campus. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes. (MISD requirement only)**

III. DUAL CREDIT PROGRAMS IN MISD

(TCC) MUSIC

Course Number: 0333

Placement: 11-12

Credits: ½

Prerequisite: 80+ overall GPA & TSI Assessment

TCC corresponding college credit:

MUSI 1306 – Music Appreciation (3 semester hours)

This is a regular college-level Music course designed to understand music through the study of cultural periods, major composers, and musical elements. The student will receive 3 hours college credit and ½ high school credit when completed successfully. Students will attend TCC classes on their home campus. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes. (MISD requirement only)**

(TCC) DRAMA

Course Number: 0334

Placement: 11-12

Credits: ½

Prerequisite: 80+ overall GPA & TSI Assessment

TCC corresponding college credit:

DRAM 1310 – Introduction to Theatre (3 semester hours)

This is a regular college-level Art course surveying all phases of theatre including its history, dramatic works, stage techniques, production procedures, and relation to fine arts. The student will receive 3 hours college credit and ½ high school credit when completed successfully. Students will attend TCC classes on their home campus. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes. (MISD requirement only)**

(TCC) BUSINESS PRINCIPLES

Course Number: 0170

Placement: 11-12

Credits: ½

Prerequisite: 80+ overall GPA & TSI Assessment

TCC corresponding college credit:

BUSI 1301 – Business Principles (3 semester hours)

This is a regular college-level introductory business course with an exploration of the role of business in modern society. The student will receive 3 hours college credit and ½ high school credit when completed successfully. Students will attend TCC classes on their home campus. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes.**

(TCC) BUSINESS LAW

Course Number 0171

Placement: 11-12

Credits: ½

Prerequisite: 80+ overall GPA , US History and Government & TSI Assessment

TCC corresponding college credit:

BUSI 2301 – Business Law I (3 semester hours)

This is a regular college-level course examining the principles of law which form the legal framework for business activity. The student will receive 3 hours college credit and ½ high school credit when completed successfully. Students will attend TCC classes on their home campus. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes. (MISD requirement only)**

(TCC) INTRODUCTION TO COMPUTING

Course Number: 0172

Credits: ½

Placement: 11-12

Prerequisite: 80+ overall GPA & TSI Assessment

TCC corresponding college credit:

COSC 1301 – Introduction to Computing (3 semester hours)

This is a regular college-level introductory computer science course with an overview of computer systems – hardware, operating systems and microcomputer application software, including the internet, word processing, spreadsheets, presentation graphics and databases. The student will receive 3 hours college credit and ½ high school credit when completed successfully. Students will attend this course at BBCTA after the traditional day ends or during the summer and are responsible for their own means of transportation. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes. (MISD requirement only)**

(TCC) INTRODUCTION TO ENGINEERING

Course Number: 0174

Placement: 12

Credits: ½

Prerequisite: MATH 1314 (or equivalent preparation) 80+ overall GPA & TSI Assessment

TCC corresponding college credit:

ENGR 1201 – Introduction to Engineering (2 semester hours)

This course is an introduction to the engineering profession with emphasis on technical communication and team-based engineering design. The student will receive 3 hours college credit and ½ high school credit when completed successfully. Students will attend this course at BBCTA after the traditional day ends or during the summer and are responsible for their own means of transportation. **The math TSI Assessment must be passed before students will be allowed to enroll in TCC classes.**

III. DUAL CREDIT PROGRAMS IN MISD

(TCC) ENGINEERING GRAPHICS

Course Number: 0175

Placement: 12

Credits: ½

Prerequisite: 80+ overall GPA & TSI Assessment

TCC corresponding college credit: ENGR 1304 – Engineering Graphics (3 semester hours)

This course is an introduction to computer aided drafting using CAD software and sketching to generate two- and three-dimensional drawings based upon the conventions of engineering graphical communication. The student will receive 3 hours college credit and ½ high school credit when completed successfully. Students will attend this course at BBCTA after the traditional day ends or during the summer and are responsible for their own means of transportation. **The math TSI Assessment must be passed before students will be allowed to enroll in TCC classes.**

(TCC) SGNL 1401 BEGINNING AMERICAN SIGN LANGUAGE I

Course Number: 0760

Placement: 10-12

Credits: 1

Prerequisite: 80+ GPA & TSI Assessment

Introduction to American Sign Language covering finger spelling, vocabulary and basic sentence structure in preparing individuals to interpret oral speech for the hearing impaired. This course will be offered at BBCTA only. It is recommended that students have some high school experience with ASL prior to dual credit enrollment. This is not a requirement. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes. (MISD requirement only)**

(TCC) SGNL 1402 BEGINNING AMERICAN SIGN LANGUAGE II

Course Number: 0761

Placement: 10-12

Credits: 1

Prerequisite: 80+ overall GPA & TSI Assessment

Introduction to American Sign Language covering finger spelling, vocabulary and basic sentence structure in preparing individuals to interpret oral speech for the hearing impaired. This course will be offered at BBCTA only. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes. (MISD requirement only)**

(TCC) SGNL 2301 INTERMEDIATE SIGN LANGUAGE I

Course Number: 0762

Placement: 11-12

Credit: 1

Prerequisite: 80+ overall GPA & TSI Assessment

Review and application of conversational skills in American Sign Language interpreting from signing to voice as well as from voice to signing. Introduction to American Sign Language literature and folklore. This course will be offered at BBCTA only. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes. (MISD requirement only)**

(TCC) SGNL 2302 INTERMEDIATE SIGN LANGUAGE II

Course: 0763

Placement: 11-12

Credit: 1

Prerequisite: 80 + overall GPA & TSI Assessment

Review and application of conversational skills in American Sign Language interpreting from signing to voice as well as from voice to signing. Introduction to American Sign Language literature and folklore. This course will be offered at BBCTA only. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes. (MISD requirement only)**

III. DUAL CREDIT PROGRAMS IN MISD

CTE DUAL CREDIT

The dual credit courses below are technical dual credit classes. They require an overall GPA of a 70 and do not require TSI testing.

TCC WLDG 1428 INTRO TO SHIELDED METAL ARC WELDING (Concurrent with Welding II)

Course Number: 0176

Placement: 10-12

Credits: 1

Prerequisite: Welding I

This course is an introduction to the shielded metal arc process. Emphasis is placed on power sources, electrode selection, oxy-fuel cutting and various joint designs. Instruction provided in SMAW fillet welding in various positions. Course offered at Ben Barber and it taught concurrently with Welding II.

TCC WLDG 1430 INTRO TO GAS METAL ARC WELDING (Concurrent with Welding II)

Course Number: 0177

Placement: 10-12

Credits: 1

Prerequisite: Welding I

This course teaches the principles of gas metal arc welding, set-up and use of GMAW equipment and safe use of tools and equipment. Instruction in various joint designs. Course offered at Ben Barber and it taught concurrently with Welding II.

TCC WLDG 1417 INTRO TO LAYOUT & DESIGN (Concurrent with Practicum in Manufacturing)

Course Number: 0178

Placement: 11-12

Credits: 1

Prerequisite: Welding II

This fundamental course in layout and fabrication related to the welding industry. Major emphasis is placed on structural shapes and use in construction. Course offered at Ben Barber and it taught concurrently with Welding II.

TCC CNBT 1300 RESIDENTIAL & LIGHT COMMERCIAL BLUE PRINT READING

(Concurrent with Construction Technology I)

Course Number: 0194

Placement 10-12

Credits: 1

Prerequisite: Principles of Construction

This course includes introductory blueprint reading for residential and light commercial construction. Course offered at Ben Barber and is taught concurrently with Construction Technology I fall semester.

TCC CNBT 1316 CONS TECH I

(Concurrent with Construction Tech I)

Course: 0195

Placement 10-12

Credits: 1

Prerequisite: Princ of Construction This course is an introduction to site preparation foundations, form work, safety, tools and equipment. Course offered at Ben Barber and is taught concurrently with Construction Technology I spring semester.

III. DUAL CREDIT PROGRAMS IN MISD

TEXAS WESLEYAN EDUCATION ACADEMY



The Texas Wesleyan Education academy offers MISD students interested in pursuing a career in Education K-12 the opportunity to complete up to 51 hours of their degree plan while still in high school. Courses for this program are a combination of TCC and Texas Wesleyan courses. Students participating in this program will begin the EC-Generalist with ESL Certification, EC-6 Generalist Bilingual Program or a Secondary Path. Students follow a cohort model. Students that participate in this program, who are in good academic standing, will be admitted into Texas Wesleyan University Teacher Preparation Program. In addition to admission, students are eligible for multiple university based scholarships. Upon completion of their degree at Texas Wesleyan, students are guaranteed an interview at the MISD job fair.

ELIGIBILITY REQUIREMENTS

- Students begin course work spring of their 10th grade year
- Students must have an 80+ GPA
- Students must pass the reading, writing and math assessment (math testing occurs during spring of junior year)

ENROLLMENT PROCESS

Let your counselor know you are interested in Education Academy specifically.

1. The first step is to confirm that you have the 80+ GPA required to take a dual credit class under MISD sponsorship. You can confirm your GPA in the counseling office. The secretaries can usually help you with this if you have your ID.
2. The next step is to complete the application on Apply Texas. You will find this application at https://www.applytexas.org/adappc/gen/c_start.WBX We have a quick guide available to assist you through the process. The application should be completed as soon as possible to allow sufficient time for testing. Application must be completed one month prior to testing. After completing your application, you should receive an e-mail within a week with your TCC ID#. This is not the same as your MISD ID#.

3. Once you receive your e-mail from TCC with your ID#, please print this e-mail and take it to your counselor or share with your counselor so that we have a record of your TCC ID#.
4. A Pre-assessment activity (PAA) is required prior to TSI testing. Opportunities to view the PAA will be held at each home campus. These sessions may be during lunch, after school or during the school day.
5. The fifth step is to take the TSI assessment. The student will need his/her TCC ID# for testing. The test measures the student's reading, writing and math skills in order to make sure the student can successfully complete college level work. In order to take the TSI, steps 1-4 must be complete. If the TSI is passed, the student may proceed to the next step.
6. The sixth step is for the student to choose courses with the high school counselor.
7. The seventh step is for students to complete self-registration in Web Advisor. This happens the semester before each course begins during a designated TCC window. Registration sessions will occur on each campus to assist students.
8. The eighth step is for new students is to register for a mandatory orientation session. These instructions will be provided during the registration sessions. Students who do not attend one of the mandatory orientation sessions will be dropped.
9. The final step for students in the Education Academy is to complete a Texas Wesleyan Application and provide proof of a current meningitis shot. Students will be automatically enrolled in coursework after application is accepted.

COURSE LOCATION

Most courses will be taught on the student's home campus. However, all Texas Wesleyan courses will be held at Ben Barber. All rules associated with dual credit classes apply. Students will take courses associated with the Education and Training pathway in conjunction with this program. Pre-requisites for those courses are listed in the course guide.

III. DUAL CREDIT PROGRAMS IN MISD

TEXAS WESLEYAN COHORT MODEL COHORTS 4, 5, & 6 (2019-2022)	
10th grade- Fall 2019	10th grade- Spring 2020
	Foundation of Education (EDU 2100)
	Texas Wesleyan Intro to World Religion (REL 1321) @ BB
11th Grade- Fall 2020	11th Grade- Spring 2021
TCC English Comp I (ENGL 1301) @ home campus	TCC English Comp II (ENGL 1302) @ home campus
TCC US History I (HIST 1301) @ home campus	TCC US History II (HIST 1302) @ home campus
Texas Wesleyan Multi-Cultural Education (EDU 3310)	TCC Psychology (PSYC 2301) or TCC Sociology (SOCI 1301)
Texas Wesleyan Instructional Assessment (course # TBD)	
12th grade- Fall 2021	12th grade- Spring 2022
TCC British Literature I (ENGL 2322) @ home campus	TCC British Literature II (ENGL 2323) @ home campus
Texas Wesleyan Mathematics for Liberal Arts (MAT 1304)**	TCC College Algebra (MATH 1314)
TCC Government (GOVT 2305)	TCC Economics (ECON 2301)
TCC Biology (BIOL 1408) double blocked at BB	TCC Biology (BIOL 1409) double blocked @ BB

TEXAS WESLEYAN INTRO TO WORLD RELIGION REL 1321

Course Number: 0985

Placement: Spring 10th grade

Credits: ½

Pre-requisite: 80+ GPA & TSI Assessment

This course is a survey of selected world religions, emphasizing the diversity of religions experience in human life, with writing assignments designed to enhance students' appreciation of religious values. This course will be taught at Ben Barber. Students must pass the reading and writing TSI Assessment.

TEXAS WESLEYAN HEALTH AND PHYSICAL EDUCATION ACTIVITIES

Course Number: 0988

**Placement: Spring 11th grade FOR ELEMENTARY
TEACHERS**

Credits: ½

Pre-requisite: 80+ GPA & TSI Assessment

This course is designed for students majoring in EC-6 Generalist Education and places emphasis on participation in games, sports, fitness and movement for grades EC-6. Focus is placed on the health and physical education standards for grades EC-6. Students must pass the reading and writing TSI Assessment. Classroom observation hours are required.

TEXAS WESLEYAN FINE ARTS FOR ELEMENTARY TEACHERS (EDU 2208)

Course Number: 0986

Placement: Summer after 10th

Credits: ½

Pre-requisite: 80+ GPA & TSI Assessment

This cross-disciplinary course is designed to develop, explore and integrate vocabularies of the arts including architecture, dance, design, drama, literature, moving images, music, theatre, and the visual arts. Students can expect to demonstrate understanding in a number of various individual and group projects. Students can expect to document experiences throughout the semester. This course is an online course. Students must pass the reading and writing TSI assessment.

TEXAS WESLEYAN MATHEMATICS FOR THE LIBERAL ARTS (MAT 1304)

Course Number: 0989

Placement: Spring 12th grade

Credits: ½

**Pre-requisite: 80+ GPA, TSI Assessment &
College Algebra**

This course is an introduction to some of the most important ideas in mathematics that can both provide basic skills and illustrate the power and nature of mathematics. Topics include problem solving, set theory, logic, mathematical systems, number theory, theory of equations and inequalities, function theory, graphing, Euclidean and non- Euclidean geometry, and an introduction to probability and statistics. Students must pass the math TSI Assessment and successfully complete MATH 1314 College Algebra.

III. DUAL CREDIT PROGRAMS IN MISD

TEXAS WESLEYAN FOUNDATIONS OF EDUCATION (EDU 2100)

Course Number: 0987

Placement: Spring 11th grade

Credits: ½

Pre-requisite: 80+ GPA & TSI Assessment

This course is an introduction to teaching, to the Texas Wesleyan University teacher education program and Texas certification standards. This course is designed to enhance the student's educational understanding and critical thinking. Students will explore links among historical foundation and best practices, learning theorist, and contemporary concerns for education.

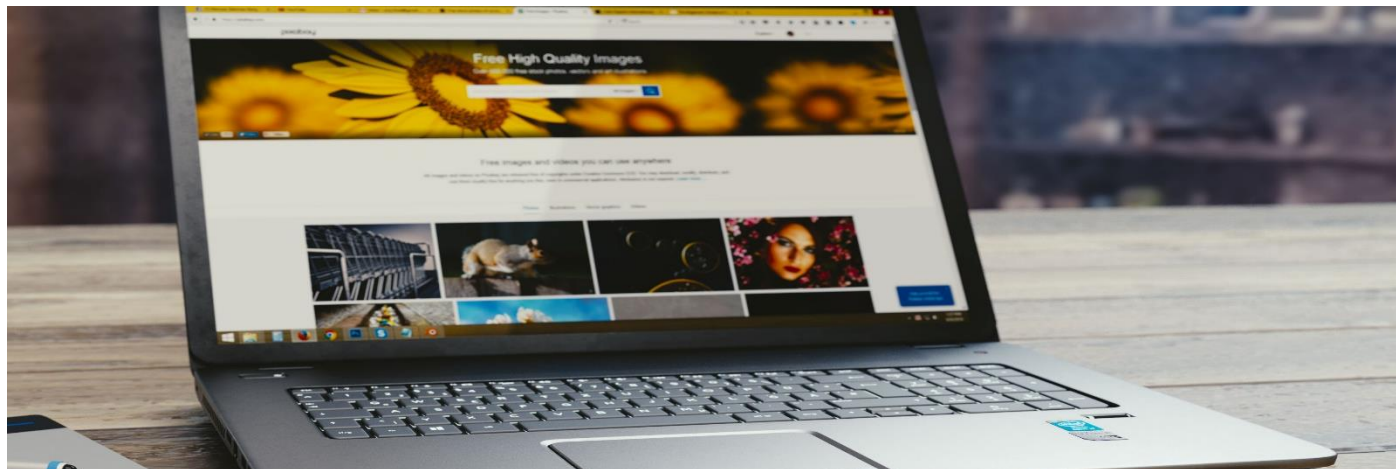
IV.

ONLINE ACADEMICS



IV. ONLINE ACADEMICS

ONLINE ACADEMICS



The Mansfield Independent School District (MISD) offers opportunities for students to earn high school credit through online courses provided by the MISD Online Academics and through the Texas Virtual School Network (TxVSN). Online courses allow students the ability to work on a course anywhere, anytime they can access the Internet.

The mission of MISD Online Classes is:

- to provide opportunities for students to take classes in a format that will be part of their educational future
- to provide options for students to take classes that may conflict with other classes in their schedule

- to provide students access to classes that are not available on their home campus.

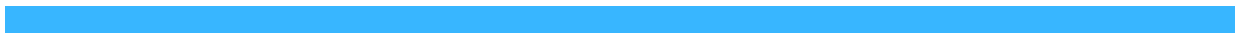
Online courses allow students to take classes for acceleration and experience online learning while still under the supervision of high school staff. Online classes are part of a student’s regular schedule. Students enrolled in online classes are assigned to a class with a campus teacher monitor who serves as a liaison between the student and their teacher. Some of the most common courses taken by MISD students are listed below. Course offerings continue to be expanded. Contact your counselor for additional information.

Advanced Placement		
AP Biology A/B	AP English Language A/B	AP Statistics A/B
AP Calculus AB A/B	AP English Literature A/B	AP US History A/B
AP Calculus BC A/B	AP Macroeconomics	AP Psychology
AP Government & Politics		
Electives		
Communication Application	Health (one semester course)	Art I
Economics & Free Enterprise	PE	
Languages Other Than English		
French 1 A/B	German 1 A/B	Latin 1 A/B
French 2 A/B	German 2 A/B	Latin 2 A/B
French 3 A/B	German 3 A/B	Latin 3 A/B
Spanish 1 A/B		
Spanish 2 A/B		
Spanish 3 A/B		
Core Classes		
Environmental Science A/B	US Government	Economics

V.

A blue and green globe is positioned on top of an open book. The book is open, showing its pages. The globe is centered over the spine of the book. The background is a light, neutral color.

**COURSE
DESCRIPTIONS**



V. COURSE DESCRIPTIONS - ENGLISH

ENGLISH



ENGLISH I

Course Number: 2010

Placement: 9

Credits: 1

Prerequisite: None

This course covers grammar, literature, composition, vocabulary development, and spelling. Development of reading skills, writing, and language concepts are stressed. Students focus on literary and informational pieces including plays, novels, and poetry and develop writing skills through multiple compositions.

PRE-ADVANCED PLACEMENT ENGLISH I

Course Number: 2013

Placement: 9

Credits: 1

Prerequisite: 8th Grade English

This course is for students who have demonstrated superior skills and who are sufficiently motivated to accomplish challenging assignments. It is an in-depth study of literary and informational pieces such as poetry, plays, short stories and novels. Students also concentrate on language acquisition, critical thinking skills, and advanced composition. **Please proceed to the MISD ELAR webpage for summer reading novel selections and other pertinent information.**

ENG FOR SPEAKERS OF OTHER LANGUAGE I

Course Number: 2232

Placement: 9-12

Credits: ½-1

Prerequisite: Approval

This basic course provides the student whose native language is not English with individual instruction in reading, spelling, and writing the English language. The course stresses concepts and skills in listening, speaking, reading, and writing and satisfies the requirements for Freshman English.

ENG FOR SPEAKERS OF OTHER LANG. II

Course Number: 2234

Placement: 9-12

Credits: ½-1

Prerequisite: Approval

This basic course provides newcomers as identified by the district whose native language is not English with individual instruction in reading, spelling, and writing the English language. The course stresses concepts and skills in listening, speaking, reading, and writing and satisfies the requirements for Sophomore English.

V. COURSE DESCRIPTIONS - ENGLISH

PROFESSIONAL COMMUNICATIONS

Course Number: 2246

Placement: 9-12

Credits: ½

Prerequisite: None

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

(TCC) PUBLIC SPEAKING

Course Number: 0260/0261

Placement: 10-12

Credits: ½

Prerequisite: 80+ Overall GPA & TSI Assessment

TCC corresponding college credit:

SPCH 1315 – Introduction to Speech Communication (3 semester hours)

This is a college speech course that applies communication theory to help develop students' speaking abilities, as well as ability to effectively evaluate oral presentations. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes. This course will meet the professional communications requirement for graduation. (MISD requirement only)**

FUNDAMENTALS OF ENGLISH I

Course Number: 2060

Placement: 9

Credits: 1

Prerequisite: ARD Approval

This course covers grammar, literature, composition, vocabulary development, and spelling. Development of reading skills, writing, and language concepts are stressed. Students focus on various types of literature including plays, novels, and poetry and develop writing skills through multiple compositions. This course encompasses a modified curriculum for English I.

FUNDAMENTALS OF ENGLISH II

Course Number: 2070

Placement: 10

Credits: 1

Prerequisite: ARD Approval

This course introduces a variety of literary forms and continues skill development in language, reading, and composition. Curriculum includes a study of the short story and a grammar review focusing on parts of a sentence, punctuation, usage, sentence structure, and composition. Reading assignments emphasize poetry, novels, and essays. Literary analysis, research skills, and vocabulary development will be stressed. This course encompasses a modified curriculum for English II.

ENGLISH II

Course Number: 2020

Placement: 10

Credits: 1

Prerequisite: English I

This course introduces a variety of literary forms and continues skill development in language, reading, and composition. Curriculum includes a study of the short story and a grammar review focusing on parts of a sentence, punctuation, usage, sentence structure, and composition. Reading assignments emphasize literary and informational pieces including poetry, novels, and essays. Literary analysis, research skills, and vocabulary development will be stressed.

PRE-ADVANCED PLACEMENT ENGLISH II

Course Number: 2023

Placement: 10

Credits: 1

Prerequisite: English I or Pre-AP English I

To broaden the skills introduced in English I, this course stresses mastery of general essay skills, literary analysis, and critical thinking. Students enhance appreciation of the classics through exploration of various forms of world literature. Concepts and skills in writing, language, literature, and reading are stressed. **Please proceed to the MISD ELAR webpage for summer reading novel selections and other pertinent information**

AP WORLD STUDIES

Course Number: 2025

[PRE-AP ENGLISH II & AP WORLD HISTORY]

Placement: 10-12

Credits: 2

Prerequisite: Same as Pre-AP English II & AP World History

The student will study World History and representative literary works in a combined social studies and English format that will allow the student to understand how history affects the development of literature and vice versa. This course will satisfy Pre-AP English II and Pre-AP World History credit.

FUNDAMENTALS OF ENGLISH III

Course Number: 2080

Placement: 11

Credits: 1

Prerequisite: ARD Approval

In this course, students will strengthen skills in reading analysis and communication. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze text, write in multiple modes, research, listen, and speak. Writing in a variety of modes - personal essays, opinions and editorials, reflective self-evaluation, speeches, literary analysis, and research projects - students expand their skills in communicating well through written language. This course encompasses a modified curriculum for English III.

V. COURSE DESCRIPTIONS - ENGLISH

ENGLISH III

Course Number: 2030

Placement: 11

Credits: 1

Prerequisite: English II

In this course, students will strengthen skills in reading analysis and communication. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze text, write in multiple modes, research, listen, and speak. Writing in a variety of modes - personal essays, opinions and editorials, reflective self-evaluation, speeches, literary analysis, and research projects - students expand their skills in communicating well through written language.

ADVANCED PLACEMENT ENGLISH III

Course Number: 2033

Placement: 11

Credits: 1

Prerequisite: English II or Pre-AP English II

This course challenges honors students to do college level reading and writing through in depth study of literature, analysis of non-fiction prose, and extensive essay writing. Students taking this course should be highly motivated to improve analytical thinking and writing skills. This course is designed to prepare students to take the Advanced Placement test. **Please proceed to the MISD ELAR webpage for summer reading novel selections and other pertinent information.**

(TCC) ENGLISH COMPOSITION

Course Number: 0252

Placement: 11-12

Credits: 1

Prerequisite: Successful completion of English II. 80+ Overall GPA & TSI Assessment

TCC corresponding college credit:

ENGL 1301 – Composition I (3 semester hours)

ENGL 1302 – Composition II (3 semester hours)

This is a regular college-level English course in which dual credit will be awarded for college freshman English and English III or IV. The student will receive 3 hours college credit and ½ high school credit for each term completed successfully. Students will attend TCC classes on their home campus. This course meets the high school graduation requirement. **The reading and writing TSI Assessments must be passed before students will be allowed to enroll in TCC classes.**

FUNDAMENTALS OF ENGLISH IV

Course Number: 2090

Placement: 12

Credits: 1

Prerequisite: ARD Approval

In this course, students will strengthen skills in reading analysis and communication. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze text, write in multiple modes, research, listen, and speak. This course capitalizes on the confidence and expertise students have gained as interpreters and analyzers of texts by introducing them to multiple lenses through which to view text. Students are asked to broaden their understanding and their interpretive skills by thinking deeply about themes and ideas from multiple perspectives. This course provides the critical reading and writing skills necessary for college and the work force. This course encompasses a modified curriculum for English IV

ENGLISH IV

Course Number: 2040

Placement: 12

Credits: 1

Prerequisite: English III

In this course, students will strengthen skills in reading analysis and communication. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze text, write in multiple modes, research, listen, and speak. This course capitalizes on the confidence and expertise students have gained as interpreters and analyzers of texts by introducing them to multiple lenses through which to view text. Students are asked to broaden their understanding and their interpretive skills by thinking deeply about themes and ideas from multiple perspectives. This course provides the critical reading and writing skills necessary for college and the work force.

ADVANCED PLACEMENT ENGLISH IV

Course Number: 2043

Placement: 12

Credits: 1

Prerequisite: English III or AP English III

This course teaches literary analysis through prose, poetry, and drama. It reinforces skills learned in AP English III by applying them to a different field of study. Students taking this course should be highly motivated and strong in critical thinking and independent study skills. This course is designed to prepare students for the Advanced Placement tests. Please proceed to the MISD ELAR webpage for summer reading novel selections and other pertinent information

V. COURSE DESCRIPTIONS - ENGLISH

(TCC) ENGLISH – BRITISH LITERATURE

Course Number: 0253

Placement: 12

Credits: 1

Prerequisite: ENGL 1302; 80+ Overall GPA & TSI Assessment

TCC corresponding college credit:

ENGL 2322 – British Literature I (3 semester hours)

ENGL 2323 – British Literature II (3 semester hours)

This is a regular college-level English course in which dual credit will be awarded for college freshman English and English IV. The student will receive 3 hours college credit and ½ high school credit for each term completed successfully. Students will attend TCC classes on their home campus. Required prerequisite: ENGL 1302. This course meets the high school graduation requirement.

The reading and writing TSI Assessments must be passed before students will be allowed to enroll in TCC classes.

PSAT/SAT/ACT PREPARATION I, II

Course Number: 2251/2252

Placement: 10-12

Credits: ½ each (local credit only)

Prerequisite: Geometry

This course is designed to improve students' mathematical and verbal skills for the PSAT (the National Merit Scholarship Qualifying Test), the SAT and ACT test (college entrance tests). Course topics of study are essay writing, analysis of founding documents, analysis of science content and graphical representations. This course is for *local credit only* and students may be required to purchase a study guide.

CREATIVE WRITING

Course Number: 2270

Placement: 11-12

Credits: 1

Prerequisite: English I and English II

In this course, students will develop many writing strategies useful across the curriculum. Students will keep a personal journal, form peer writers' support groups in the class, and write several genres, such as short story, poetry, personal essay, and drama. Students will study writers' markets and submit pieces for publication. All students are expected to demonstrate understanding of the recursive nature of the writing process, effectively applying the conventions of usage and the mechanics of written English. Emphasis will be placed on editing completed work along with publishing a Literary Magazine. Students will handle all aspects of the magazine including the soliciting of manuscripts and art from the student body, the editing of manuscripts, the layout, the advertising and the sale of the magazine. **This course may count towards an English IV credit.**

PUBLIC SPEAKING (INFORMATIVE/PERSUASIVE)

Course Number: 2274

Placement: 9-12

Credits: ½

Prerequisite: None

This course will allow students to research, analyze, and write fully developed speeches for a variety of topics in a contest format. Students will practice skills of critical thinking, preparation, and delivery. Individual performances of speeches will be presented and evaluated. The ultimate focus of the course is contest/tournament preparation. Students will be expected to participate in competitive speech tournaments for credit. Students will be allowed to choose between Informative and Persuasive speaking.

ORAL INTERPRETATION I, II, III (PROSE/POETRY)

Course Number(s): 2275, 2279, 2280

Placement: 9-12

Credits: 1 credit per course

Prerequisite: Student Application

The course will allow students to select, research, analyze, adapt, interpret, memorize, rehearse and perform a variety of texts including: prose, poetry, and a variety of different solo and partner acting events. Students focus on intellectual, emotional, sensory, and aesthetic levels of texts to attempt to capture the entirety of the author's work. Individual and partner performances of literature will be presented and evaluated. Students will also have the opportunity to participate in competitions using the pieces of literature that they have developed in class. The ultimate focus of the course is contest/tournament preparation and participation. Students will be expected to participate in competitive speech tournaments for credit. **Oral Interpretation III may count towards an English IV credit (you must complete one full credit).**

INTRODUCTION TO DEBATE

Course Number: 2300

Placement: 9-12

Credits: 1

Prerequisite: None

This course is for students interested in developing their informative and persuasive speaking skills to be used in classroom debate and speeches. The student will learn about the basic theories of the two different debate styles with the potential of advancement to the competitive debate team. This course may **not** be used to fulfill any of the English requirements for graduation.

V. COURSE DESCRIPTIONS - ENGLISH

COMPETITIVE DEBATE I, II, III

Course Number(s): 2311, 2321, 2331

Placement: 10-12

Credits: 1 credit per course

Prerequisite: Intro to Debate & Student App

This course offers opportunities to continue skill development, critical analysis, and effective delivery techniques formed in Introduction to Debate. Activities include the Lincoln-Douglas and Cross Examination debates. Students will be expected to enroll in the debate classes for both the fall and the spring terms and to participate in debate tournaments throughout the year. Credit will be given as follows: 1st year Public Speaking I/Debate I, 2nd year Public Speaking II/Debate II, 3rd year Public Speaking III/Debate III. **The Debate III course may count towards an English IV credit (you must complete one full credit).**

LITERARY GENRES A - MULTICULTURAL LITERATURE & POETRY

Course Number: 2277

Placement: 11-12

Credits: ½

Prerequisite: ENGLISH I & ENGLISH II

Students will study poetry forms and prose selections including essays, novels, short stories and/or other non-fiction pieces from a variety of authors representing diverse cultural backgrounds. Special emphasis on universal themes across cultures as well as contribution of historical events to the literature. Students will have opportunities to research the diverse cultural heritage of our local and national community using appropriate technology and reference resources. Students will research various authors and write poetry using appropriate technology and reference resources. **The Literary Genres A/B may count towards an English IV credit (you must complete one full credit).**

LITERARY GENRES B - MYSTERY, SUSPENSE & SCIENCE FICTION

Course Number: 2281

Placement: 11-12

Credits: ½

Prerequisite: ENGLISH I & ENGLISH II

Students will spend time analyzing these genres and read to appreciate author's craft. Students will study various authors and works from these genres. Opportunities will be given also for the student to write mysteries and science fiction stories, both individually and in a group setting. **The Literary Genres A/B may count towards an English IV credit (you must complete one full credit).**

COLLEGE READINESS READING/WRITING TECHNIQUES

Course Number: 0225

Placement: 12

Credits: ½

Prerequisite: English III and TSI

TCC corresponding course: RDNG 0361/ENGL 0324

This course is designed to improve basic reading skills through individualized development of comprehension, vocabulary, study skills, critical reasoning and relationships among ideas in written material. **This course counts towards an English IV credit (you must complete one full credit).**

COLLEGE READINESS INTEGRATED READING & WRITING

Course Number: 0255

Placement: 12

Credit: .5

Prerequisite: English III and TSI

TCC corresponding course: INRW 0399

This course is designed to develop students' critical reading and academic writing skills. Topics include applying critical reading skills for organizing, analyzing, and retaining materials and developing written work appropriate to the audience, purpose, situation, and length of the assignment. The course integrates fundamental reading skills – comprehension, vocabulary, and rate with **This course counts towards an English IV credit (you must complete one full credit).**

V. COURSE DESCRIPTIONS - FINE ARTS

FINE ARTS



ART

With the exception of instruction in basic processes, some art courses require students to furnish their own materials. Please contact your high school art department for any art supply fee associated with specific courses.

ART I

Course Number: 3100

Placement: 9-12

Credits: 1

Prerequisite: None

In this course the student studies design, drawing, painting, graphics arts, and art history. Other topics include work in clay, weaving, and sculpture. Awareness and sensitivity to one's environment will be developed, along with inventive and imaginative expression through art materials and tools. Students will also practice visual discrimination and aesthetic judgment.

PARTNERS IN ART

Course Number: 3105

Placement: 10-12

Prerequisite: Art I & Student Application

Credits: 1

This is a fine arts course in which students with special needs are partnered with other students. These partners will explore two-dimensional and three-dimensional media through arts and crafts projects. They will be actively involved with creating art in an inclusive environment. Students will gain insight into students with special needs while the special needs students learn a basic understanding of art.

ART II

Course Number: 3110

Placement: 10-12

Credits: 1

Prerequisite: Art I

This course is a continuation of the basics of Art I. It stresses design and strengthens art skills. It focuses on drawing from observation and improving drawing skills. Students will also work in painting, printmaking, ceramics, and sculpture.

ART II – CERAMICS

Course Number: 3115

Placement: 10-12

Credits: 1

Prerequisite: Art I

Students in this class will learn basic pottery wheel and hand-building techniques for creating vessels and sculpture. Students will explore various finishing and firing processes. Students will only be able to take the Art III and IV ceramics disciplines if they do not take Art II or Pre AP Art II in addition to this class.

PRE-ADVANCED PLACEMENT ART II

Course Number: 3120

Placement: 10-12

Credits: 1

Prerequisite: Art I

This course is designed for the students who show superior skills and interest in art. Artistic awareness, critical thinking, imaginative expression, appreciation of art culture, and aesthetic judgment are emphasized.

V. COURSE DESCRIPTIONS - FINE ARTS

ART III – DRAWING

Course Number: 3131

Placement: 10-12

Credits: 1

Prerequisite: Art II

Students will work with a variety of media from pencil to prism colors to pastels, etc. and will explore a variety of styles from grid drawing to free style.

ART IV – DRAWING

Course Number: 3136

Placement: 11-12

Credits: 1

Prerequisite: Art III Drawing

Students will work with a variety of media from pencil to prism colors to pastels, etc. and will explore a variety of styles from grid drawing to free style.

ART III – PAINTING

Course Number: 3132

Placement: 10-12

Credits: 1

Prerequisite: Art II

Students will concentrate on all types of painting: oil painting, watercolor, etc.

ART IV – PAINTING

Course Number: 3137

Placement: 11-12

Credits: 1

Prerequisite: Art III Painting

Students will concentrate on all types of painting: oil painting, watercolor, etc.

ART III – SCULPTURE

Course Number: 3134

Placement: 10-12

Credits: 1

Prerequisite: Art II

Working with clay, wood, plastics, etc., in a sculptural manner will be the focus.

ART IV – SCULPTURE

Course Number: 3139

Placement: 11-12

Credits: 1

Prerequisite: Art III Sculpture

Working with clay, wood, plastics, etc., in a sculptural manner will be the focus.

ART III – CERAMICS

Course Number: 3133

Placement: 10-12

Credits: 1

Prerequisite: Art II or Art II Ceramics

Students will form pottery and other types of containers using different methods of coil, slab, pinch and the pottery wheel.

ART IV – CERAMICS

Course Number: 3138

Placement: 11-12

Credits: 1

Prerequisite: Art III Ceramics

Students will form pottery and other types of containers using different methods of coil, slab, pinch and the pottery wheel.

FLORAL DESIGN

Course Number: 1110CT

Placement: 9-12

Credits: 1

Prerequisite: None

For careers in floral design, students need to attain academic skills and knowledge as well as technical knowledge in skills related to horticulture systems and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises.

ART III – PHOTOGRAPHY

Course Number: 3135

Placement: 10-12

Credits: 1

Prerequisite: Art II

Photography is an art course in which the camera is the art tool. *Student will be required to furnish either a 35mm film camera and film or a digital camera with a "manual" setting.* Students will learn to compose photographs in an artistic manner, to develop their film, and print the photographs.

ART IV – PHOTOGRAPHY

Course Number: 3140

Placement: 11-12

Credits: 1

Prerequisite: Art III Photography

Photography is an art course in which the camera is the art tool. *Student will be required to furnish either a 35mm film camera and film or a digital camera with a "manual" setting.* Students will learn to compose photographs in an artistic manner, to develop their film, and print the photographs.

ADVANCED PLACEMENT STUDIO ART: DRAWING PORTFOLIO

Course Number: 3145

Placement: 11-12

Credits: 1

Prerequisite: Student Application

This course is designed for students who are seriously interested in exploring drawing issues and media. Light and shade, line quality, rendering of form, composition, surface manipulation, and illusion of depth will be explored through a variety of media. This course is designed to prepare the student to submit an AP portfolio. All students are expected to submit a portfolio for Advanced Placement review.

V. COURSE DESCRIPTIONS - FINE ARTS

ADVANCED PLACEMENT STUDIO ART: 2-D DESIGN PORTFOLIO

Course Number: 3146

Placement: 11-12

Credits: 1

Prerequisite: Student Application

This course is designed for students who are seriously interested in exploring 2-D design issues. Students will demonstrate a proficiency in 2-D design using a variety of art forms. These may include, but are not limited to, graphic design, digital imaging, photography, collage, illustration, printmaking, painting, etc. This course is designed to prepare the student to submit an AP portfolio. All students are expected to submit a portfolio for Advanced Placement review.

ADVANCED PLACEMENT STUDIO ART: 3-D DESIGN PORTFOLIO

Course Number 3147

Placement: 11-12

Credits: 1

Prerequisite: Student Application

This course is designed for students who are seriously interested in exploring 3-D design issues. Students will demonstrate a proficiency in 3-D design using a variety of art forms. These may include, but are not limited to, graphic design, digital imaging, photography, collage, illustration, printmaking, painting, clay, wood, plaster, mold-making, found objects, papier-mâché, metals, jewelry, glass, plastics, cardboard, paper and fibers, etc. This course is designed to prepare the student to submit an AP portfolio. All students are expected to submit a portfolio for Advanced Placement review.

ADVANCED PLACEMENT ART HISTORY

Course Number: 3150

Placement: 10-12

Credits: 1

Prerequisite: none

The AP Art History course is equivalent to a two-semester introductory college course that explores topics such as the nature of art, art making, and responses to art. By investigating a specific image set of 250 works of art characterized by diverse artistic traditions from prehistory to the present, the course fosters in-depth, holistic understanding of the history of art from a global perspective. Students become active participants in the global art world, engaging with its forms and content, as they experience, research, discuss, read, and write about art, artists, art making, and responses to and interpretations of art. In order to meet the goals of this course, students will be expected to work outside of class. College-level writing is a feature of the course because two thirds of the AP exam is free response essay.

(TCC) DRAWING I

Course Number: 0332

Placement: 11-12

Credits: ½

Prerequisite: 80+ overall GPA & TSI Assessment

TCC corresponding college credit: ART 1316 – Drawing I (3 semester hours)

This is a regular college-level Art course investigating drawing media and techniques of drawing including descriptive and expressive possibilities. The student will receive 3 hours of college credit and ½ high school credit when completed successfully. Students will attend TCC classes on their home campus. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes. (MISD requirement only)**

(TCC) ART HISTORY

Course Number: 0335

Placement: 11-12

Credits: ½

Prerequisite: 80+ overall GPA & TSI Assessment

TCC corresponding college credit: ART 1303 – Art History (3 semester hours)

This is a regular college-level Art course focused on exploring the purposes and processes in the visual arts including evaluation of selected works of painting, sculpture, architecture and industrial design related to everyday life. The student will receive 3 hours college credit and ½ high school credit when completed successfully. Students will attend TCC classes on their home campus. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes. (MISD requirement only)**

MUSIC

Students are expected to remain in band, color guard and choir all school year.

CHOIR I, II, III, IV

Course Number(s): 3205, 3206, 3207, 3208

Placement: 9-12

Credits: ½-1 per course

Prerequisite: Audition

This course provides study of vocal and choral techniques, music theory, sight-reading, music history and literature, performance activities, and creative expression. Students will be required to participate in school concerts, UIL Solo/Ensemble contest and UIL Concert/Sight Reading and specially requested programs. It is designed to enhance and build the vocal abilities of the maturing male and female voice.

V. COURSE DESCRIPTIONS - FINE ARTS

MEN'S ENSEMBLE I, II, III, IV

Course Number(s): 3225, 3226, 3227, 322

Placement: 9-12

Credits: ½-1 per course

Prerequisite: Audition

This select choir of male voices consists of 9-12 grade students, most of whom have had previous choral experience at the high school or middle school level. Students will study vocal and choral techniques, music theory, sight-reading, music history and literature, performance practices, and creative expression. Students are required to participate in school concerts, UIL Concert/Sight Reading, UIL Solo/Ensemble contest, and specially requested programs. Students are admitted in to this class by audition with the director or by recommendation of the middle school choral director. Students must maintain academic eligibility to participate in this ensemble.

VARSITY WOMEN/WOMENS ENSEMBLE I-IV

Course Number(s): 3235, 3236, 3237, 3238

Placement: 10-12

Credits: ½-1 per course

Prerequisite: Audition

This select ensemble of treble voices consists of 10-12 grade students, most of whom have had previous choral experience at the high school level. Students will study vocal and choral techniques, music theory, sight-reading, music history and literature, performance practices, and creative expression. Students are required to participate in school concerts, UIL Concert/Sight Reading, UIL Solo/Ensemble contest, and specially requested programs. Membership is open primarily to students with previous choral experience in grades 10-12 by audition with the director. Students must maintain academic eligibility to participate in this ensemble.

MARCHING BAND I, II, III, IV

Course Number: 3241, 3242, 3243, 3244

Placement: 9-12

Credits: ½-1 per course

Prerequisite: Audition

The Marching Band performs at all varsity football games and related activities. The Marching Band also participates in various marching competitions and civic performances in the area. All members will be expected to attend all rehearsals and performances. The Marching Band rehearses daily after school hours. The Marching Band is a part of the total band program. Enrollment in the total program is required. Marching Band will waive ½ credit of PE each fall.

BAND I, II, III, IV

Course Number: 3251, 3252, 3253, 3254

Placement: 9-12

Credits: ½-1 per course

Prerequisite: Audition & Band Membership in the previous school term

Members are strongly encouraged to participate in each of the All-Region auditions and participate in Solo & Ensemble contest. Participation in all UIL contests pertaining to this field is encouraged. Audition and other criteria will determine membership and placement in the different levels/ensembles. Members in top ensemble sections are expected to be enrolled in private lessons, participate in the All-Region Band Auditions, Solo & Ensemble Contest, and be leaders in other performing ensembles such as Jazz Band, Brass Choirs, Woodwind Choirs, and Percussion Ensemble. Advanced ensembles will follow the standard set by the Wind Symphony of musical performance, integrity, and professionalism. Members in top band sections frequently perform at various school and civic functions. Students in band are expected to perform and rehearse at the highest level of their ability. Enrollment in the total program is required.

ADVANCED PLACEMENT MUSIC THEORY

Course Number: 3230

Placement: 9-12

Credits: 1

Prerequisite: None

Written music theory is the study of musical designs, proportions, and inventive patterns that are transformed by the mind into aesthetic experiences. In general, students will gain fluency through both analysis and occasional writings of their own. In addition to studying written music theory (including scales, intervals, chords, etc.), students will be involved in ear training exercises/drills. Ear training is a multi-faceted endeavor. Its subdivisions include sight singing, melodic dictation, harmonic dictation, and rhythmic dictation. The drills involved with the study of ear training are to be practiced as dutifully as that on the student's performance instrument.

(TCC) MUSIC

Course Number: 0333

Placement: 11-12

Credits: ½

Prerequisite: 80+ overall GPA & TSI Assessment

TCC corresponding college credit:

MUSI 1306 – Music Appreciation (3 semester hours)

This is a regular college-level Music course designed to understand music through the study of cultural periods, major composers, and musical elements. The student will receive 3 hours college credit and ½ high school credit when completed successfully. Students will attend TCC classes on their home campus. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes. (MISD requirement only)**

V. COURSE DESCRIPTIONS - FINE ARTS

THEATER ARTS

THEATER ARTS I

Course Number: 3400

Placement: 9-12

Credits: 1

Prerequisite: None

This course stresses the expressive use of body and voice, along with aesthetic growth through appreciation of theatrical events. The course of study includes basic actor training, stage movement including mime and stage combat, and voice and diction including oral interpretation and characterization.

MUSICAL THEATER

Course Number: 3410

Placement: 9-12

Credits: ½ - 1

Prerequisite: Theater Arts I & Audition

This course introduces students to musical theater, its style and its history. Students will become acquainted with Broadway history, aspects of music production, acting and singing as well as exploring various styles of dance – tap, jazz and ballet. Students will be required to participate in after school performances. Students enrolling in this course may be expected to adhere to a more stringent dress requirement, which will be at the students' own expense.

THEATER ARTS II

Course Number: 3420

Placement: 10-12

Credits: 1

Prerequisite: Theater Arts I

This course is a more intensive study of the skills and concepts included in Theater Arts I. Advanced acting, make-up, improvisation, film and TV, puppetry, masks, and readers' theater will be studied.

THEATER ARTS III

Course Number: 3430

Placement: 11-12

Credits: 1

Prerequisite: Theater Arts II & Audition

Geared towards the serious drama student, this course continues the span of instruction of Theater Arts I and II. Directing, auditioning and playwriting are studied in the third level curriculum. Theater III focuses on acting style and technique.

THEATER ARTS IV

Course Number: 3440

Placement: 11-12

Credits: 1

Prerequisite: Theater Arts III & Audition

Geared towards the serious drama student, this course continues the span of instruction of Theater Arts I, II and III. Directing, auditioning and playwriting are studied in the fourth level curriculum. Theater IV focuses on acting style and technique.

THEATER PRODUCTION I, II, III

Course Number: 3451, 3452, 3453

Placement: 10-12

Credits: ½-1 per course

Prerequisite: Student Application/Audition

This class will be required to meet outside of regular class time (usually after school, at night, and/or on the weekends). Class will meet 8-10 weeks for a minimum of 15 hours per week. There will be at least one production each year. Rehearsals and crews will be assigned. Each student is required to be involved in production activities a minimum of 80 hours. Students enrolling in this course may be expected to adhere to a more stringent dress requirement, which will be at the students' own expense.

TECHNICAL THEATER I

Course Number: 3460

Placement: 10-12

Credits: 1

Prerequisite: Student Application

Design and production concepts and techniques will be studied in scenery, properties, lighting, sound, costumes and make-up. Hands-on experience will be involved in class practicum and during production of shows during the school year. Students will have 20 hours of outside/after school lab time during the course.

TECHNICAL THEATER II, III

Course Number: 3461, 3462

Placement: 10-12

Credits: ½-1 per course

Prerequisite: Technical Theater I & Student Application

This class emphasizes the design of scenery, costuming, lighting and sound. Students will learn theater management and work with Technical Theater I. Students in production practicum will create their own Theater production designs in all areas. Students will have 20 hours of outside/after school lab time during the course.

(TCC) DRAMA

Course Number: 0334

Placement: 11-12

Credits: ½

Prerequisite: 80+ overall GPA & TSI Assessment

TCC corresponding college credit:

DRAM 1310 – Introduction to Theatre (3 semester hours)

This is a regular college-level Art course surveying all phases of theatre including its history, dramatic works, stage techniques, production procedures, and relation to fine arts. The student will receive 3 hours college credit and ½ high school credit when completed successfully. Students will attend TCC classes on their home campus. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes. (MISD requirement only)**

DANCE

DANCE I

Course Numbers: 3610

Placement: 9-12

Credits: ½ - 1

Prerequisite: None

This course is to give students of varying dance abilities and experience the opportunity to enrich their kinesthetic awareness by learning several genres of dance. Students will learn about basic ballet, jazz, modern, hip-hop, and yoga combinations and variations of these styles and forms. Classes include intense stretching and various aerobic activities, as well as learning anatomy of the human body, history of dance, choreography, and dance production. In addition to some written work, tests will be given over physical execution of dance moves and stretching ability. This course requires dance/jazz shoes and may require some outside/after school practice time. See campus course syllabus and instructor for details.

DANCE II, III, IV

Course Numbers: 36320, 3630, 3640

Placement: 9-12

Credits: ½-1 per course

Prerequisite: Dance I or approval by Instructor

Continuation of all Dance I skills and activities done at a higher level, and is faster paced. Students will be expected to have proper dance clothing for the course. This course requires taking Dance I or having instructor permission to enroll in the upper division.

(TCC) DANCE

Course Number: 0332

Placement: 11-12

Credits: ½

Prerequisite: 80+ overall GPA & TSI Assessment

TCC corresponding college credit: DANC 2303 – Dance Appreciation (3 semester hours). This is a regular college-level Dance course surveying primitive, classical, and contemporary dance and its interrelationship with cultural developments and other art forms. The student will receive 3 hours of college credit and ½ high school credit when completed successfully. Students will attend TCC classes on their home campus. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes. (MISD requirement only)**

JV DRILL TEAM

Course Number 4081

Placement: 9

Credits: 1

Prerequisite: Try-Outs

This course is designed for students who wish to learn and improve their technical dance skills based on classical ballet and jazz. Students will learn dance routines using proper carriage, presentation and group performance skill. Each student will be a member of the JV Drill team. **Students will be expected to purchase a uniform, shoes, leotards, poms, and tights. (About \$400-\$450)** This team will be a performing group and as such will have some after school practices and performances. This group will be under the UIL guidelines regarding No Pass/No Play. **The first year a student successfully completes Drill Team they will receive one PE credit substitution. The subsequent years will receive Fine Arts credit for Dance certified instructor.**

VARSITY DRILL TEAM

Course Number 4071, 4072, 4073, 4074

Placement: 10-12

Credits: ½-1 per course

Prerequisite: Try-outs &/or JV Drill Team

Drill Team is a performing group for various athletic events and other school functions. Tryouts are held ring the spring term of the preceding year. Drill Team members participate in various statewide competitions. Students are expected to purchase uniforms. **The first year a student successfully completes Drill Team they will receive one PE credit substitution. The subsequent years will receive Fine Arts credit for Dance certified instructor.**

V. COURSE DESCRIPTIONS-HEALTH, PE & ATHLETICS

HEALTH, PHYSICAL EDUCATION & ATHLETICS



REQUIREMENTS FOR PHYSICAL EDUCATION

- Students are required to earn a minimum of 1 credit in physical education, but they may earn no more than 4 credits toward state graduation requirements.
- All PE/athletic credits after 4 are considered local credit.
- Each semester UIL competition sports will substitute for physical education.
- Marching band, color guard, and drill team may substitute for physical education.
- The first year of cheer and one year of ROTC will count for a full credit of PE substitution.
- Finally, the district will award state graduation credit for physical education for private or commercially-sponsored physical activity programs conducted off campus:
 - **Category 1:** 15 hours of documented intense activity per week or
 - **Category II:** 5 hours of documented intense activity per week.

Categories are determined by the hours and level the student is performing his/her activity. These activities may include but are not limited to ice skating, gymnastics, ballet, fencing, and equestrian sports. If interested in earning physical education credit through off-campus participation in physical activity programs, the student should contact their counselor.

COURSES WHICH MAY WAIVE THE PHYSICAL EDUCATION GRADUATION REQUIREMENT

Marching Band	Drill Team & JV Drill Team
Athletic Trainer	UIL Competition Sports
Cheerleading	Color Guard
Junior ROTC	

HEALTH

Course Number: 4000

Placement: 9-12

Credits: ½

Prerequisite: None

This course provides opportunities for pupils to acquire facts, to develop proper attitudes, and to establish practices and habits that will contribute to personal and community health.

V. COURSE DESCRIPTIONS – HEALTH, PE & ATHLETICS

PE I – FOUNDATIONS OF PHYSICAL FITNESS

Course Number: 4001

Placement: 9-12

Credits: ½

Prerequisite: None

Students in Foundations of Personal Fitness are expected to participate in a wide range of activities that can be pursued for a lifetime. Principles of exercise, health, skill related fitness and nutrition will be addresses. Students will learn to develop and maintain their own personal exercise program.

PE II – AEROBICS

Course Number: 4003

Placement: 9-12

Credits: ½

Prerequisite: None

Students enrolled in this course are exposed to a variety of activities that promote health-related fitness. A major expectation of this course is for the student to design a personal fitness program that uses aerobic activities as a foundation. This course is designed to have students exhibit a level of competency in two or more aerobic activities that may include dance, jogging, power walking and aerobics.

PE III- INDIVIDUAL/TEAM SPORTS

Course Number: 4004

Placement: 9-12

Credits: ½

Prerequisite: None

Students in Individual/ Team Sports are expected to participate in a wide range of individual/team sports that can be pursued for a lifetime. The continued development of health-related fitness and the selection of individual/team sport activities that are enjoyable is a major objective of this course. The student will demonstrate competency in movement skills in two or more sports such as basketball, soccer, volleyball, badminton, tennis, golf or other individual/team sports.

BEGINNING SWIMMING FOR FITNESS

Course Number: 4010

Placement: 9-12

Credits: ½

Prerequisite: Students must be able to swim one length (25 yards) of the pool.

Beginning swimmers with low skill levels need to learn basic swimming strokes, proper breath control, develop general conditioning, and learn to swim competently. Class is fundamentally organized to stress proper technique throughout the learning process. This is accomplished by using short descriptive lectures, videos, dry land drills, and practice in the pool. Build-up drills, exercises to enhance motor-skill development and games will be included at this level. **This course will be taught at the MISD Natatorium.**

INTERMEDIATE SWIMMING FOR FITNESS

Course Number: 4011

Placement: 9-12

Credits: ½

Prerequisite: Beginning Swimming for Fitness

Intermediate swimmers with moderate skill level will review the rudiments of stroke development as taught in Beginning Swimming before progressing into Intermediate Swimming. Based on each individual's ability and competency, greater emphasis is placed on conditioning. Individual drill and stroke refinement will be included regularly. Students are introduced to advanced skills as they relate to competitive swimming. These skills include but are not limited to, flip turns, competitive starts and finishes. **This course will be taught at the MISD Natatorium.**

ATHLETIC TRAINER

Course Number: 4031

Placement: 9-12

Credits: 1

Prerequisite: Student Application

This course is designed to give students the opportunity to provide preventative, evaluative, and rehabilitative care of athletic injuries at his/her high school campus. Students are required to work all year with a minimum of 2 sports determined by the head athletic trainer. Students are required to attend all practices and games of the assigned sports. This course counts as PE credit.

SPORTS MEDICINE

Course Number 4039

Placement: 9-12

Credits: ½

Prerequisite: Student Application

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, organizational and administrative considerations, prevention of athletic injuries, recognition, evaluation, and immediate care of athletic injuries, rehabilitation and management skills, taping and wrapping techniques, First Aid/CPR emergency procedures, nutrition, sports psychology, human anatomy and physiology, therapeutic modalities, and therapeutic exercise.

PARTNERS IN PE

Course Number 4005

Placement: 10-12

Credits: ½ - 1

Prerequisite: Student Application

This is a physical education course in which students with special needs are partnered with other students. Students with special needs will develop health-related fitness and an appreciation for team work and fair play. Other students gain insight into students with special needs while the special needs students learn a basic understanding of PE.

V. COURSE DESCRIPTIONS – HEALTH, PE & ATHLETICS

JV DRILL TEAM

Course Number 4081

Placement: 9

Credits: ½ - 1

Prerequisite: Try-Outs

This course is designed for students who wish to learn and improve their technical dance skills based on classical ballet and jazz. Students will learn dance routines using proper carriage, presentation and group performance skill. Each student will be a member of the JV Drill team. **Students will be expected to purchase a uniform, shoes, leotards, poms, and tights. (About \$400-\$450)** This team will be a performing group and as such will have some after school practices and performances. This group will be under the UIL guidelines regarding No Pass/No Play. The first year a student successfully completes Drill Team they will receive one PE credit substitution. The subsequent years will receive Fine Arts credit for Dance certified instructor.

VARSITY DRILL TEAM I, II, III, IV

Course Number 4071, 4072, 4073, 4074

Placement: 10-12

Credits: ½ - 1 per course

Prerequisite: Try-outs & JV Drill Team

Drill Team is a performing group for various athletic events and other school functions. Tryouts are held during the spring term of the preceding year. Drill Team members participate in various statewide competitions. Students are expected to purchase uniforms. The first year a student successfully completes Drill Team they will receive one PE credit substitution. The subsequent years will receive Fine Arts credit for Dance certified instructor.

CHEERLEADING I, II, III, IV

Course Number: 4085 (Local= 4083, 4084, 4091)

Placement: 9-12

Credits: ½ - 1 per course

Prerequisites: Try-outs

Cheerleaders are expected to perform at athletic events and functions throughout the school year. Tryouts are held during the spring term of the preceding year. Uniforms are required and summer cheerleading camp is mandatory. The first year (4085) a student successfully completes cheerleading they will receive one PE credit substitution. Each subsequent year they will receive local credit.

ATHLETICS

Course Numbers: Listed Below in Chart

Placement: 9-12

Credits: ½ - 4 (State) 4 ½ - 8 (Local)

Prerequisite: Approval of Head Coach/Try-outs

The Mansfield Independent School District Athletic Department offers a full range of UIL sponsored Competitive athletic activities for young men and women. These courses will include such things as rules of the game, proper sportsmanship, training in skill and techniques, physical conditioning, and competitive sports versus other UIL high schools.

GIRLS' ATHLETICS	BOYS' ATHLETICS
Freshman Volleyball Course Numbers: 4102	Freshman Football Course Numbers: 4211
Freshman Basketball Course Numbers: 4101	Freshman Basketball Course Numbers: 4212
JV/Varsity Volleyball I-IV Course Numbers: 4111-4114	JV/Varsity Football I-IV Course Numbers: 4251-4254
Girls' JV/Varsity Basketball I-IV Course Numbers: 4121-4124	Boys' JV/Varsity Basketball I-IV Course Numbers: 4221-4224
Cross Country/Track and Field I-IV Course Numbers: 4171-4174	Boys' JV/Varsity Soccer I-IV Course Numbers: 4261-4264
Girls' JV/Varsity Soccer I-IV Course Numbers: 4151-4154	JV/Varsity Baseball I-IV Course Numbers: 4201-4204
Softball I-IV Course Numbers: 4161-4164	Cross Country/Track and Field I-IV Course Numbers: 4281-4284
Swimming I-IV Course Numbers: 4331-4334	Golf I-IV Course Numbers: 4301-4304
Tennis I-IV Course Numbers: 4311- 4321	Swimming I-IV Course Numbers: 4331-4334
Golf I-IV Course Numbers: 4301-4304	Tennis I-IV Course Numbers: 4311-4314

V. COURSE DESCRIPTIONS - JOURNALISM

JOURNALISM



JOURNALISM I

Course Number: 5000

Placement: 9-12

Credits: ½ - 1

Prerequisite: None

This is a beginning journalism course for students who have an interest in writing news, feature and opinion articles. Advertising, desktop publishing and design are also covered. Students who earn an 80 or above are invited to apply for positions on the yearbook or newspaper staff.

PHOTOJOURNALISM I

Course Number: 5010

Placement: 9-12

Credits: ½ - 1

Prerequisite: Student Application

This course is a beginning course for students who have an interest in photography. Students who earn an average of 80 or above are invited to apply for staff positions on the high school yearbook or newspaper. No prerequisite is necessary, but because of costs associated with the course, parental approval is needed. **Students are expected to provide the following: 35 mm SLR camera and lens (approximate cost from \$200-\$500), and a \$25 lab fee.**

PHOTOJOURNALISM II

Course Number: 5011

Placement: 10-12

Credits: 1

Prerequisite: Photojournalism I & Student App

This course is an advanced course where students build on the skills learned in the beginning photojournalism class using Digital SLR cameras and Photoshop to learn the technology of photography. Students will leave this class with a photography portfolio and resume suitable for the college application process. Because of costs associated with the course, parental approval is needed.

Students are expected to provide the following: 35 mm Digital or film SLR camera and lens (approximate cost from \$200-\$800), and a \$25 lab fee.

PHOTOJOURNALISM III

Course Number: 5012

Placement: 11-12

Credits: 1

Prerequisite: Photojournalism II & Student App

This course is an advanced course where students build on the skills learned in the previous photojournalism class using Digital SLR cameras and Photoshop to learn the technology of photography. Photography students have the opportunity to shoot photos for student publications and other MISD events. Students will leave this class with a photography portfolio and resume suitable for the college application process. Because of costs associated with the course, parental approval is needed. **Students are expected to provide a 35 mm Digital/film SLR camera, lens (approximate cost from \$200-\$800), and a \$25 lab fee.**

V. COURSE DESCRIPTIONS - JOURNALISM

NEWSPAPER I, II, III

Course Number(s): 5021, 5031, 5035

Placement: 10-12 Newspaper III (11-12)

Credits: 1-2

Prerequisite: Newspaper I=Journalism I & Student Application Newspaper II = Newspaper I & Student Application; Newspaper III = Newspaper II & Student Application

Students will gain practical experience in the elements and processes used in producing his/her high school's newspaper. Students will handle all reporting, editing, photography, layout, advertising, and sales for the newspaper. Opportunities will be provided for students to refine and expand their knowledge and skills through special projects within the field of communications. Students must be willing to attend evening events and to spend additional time to ensure that assignments are completed in time to meet deadlines. Final selection of staff is based on grades, citizenship and recommendations. **Newspaper III counts towards an English IV credit (you must complete one full credit).**

YEARBOOK I, II, III

Course Number(s): 5051, 5061, 5071

Placement: 10-12 (Yearbook III 11-12)

Credits: 1

Prerequisite: Journalism I & Student Application; Yearbook II = Yearbook I & Student Application; Yearbook III = Yearbook II & Student Application

Students will explore the elements and processes necessary for producing his/her high school's yearbook. Proficiency in typing, copy writing, and photography is helpful. Students must be willing to attend evening events and to spend additional time to ensure that assignments are completed in time to meet deadlines. Final selection of staff is based on grades, citizenship, and recommendations. **Yearbook III counts towards an English IV credit (you must complete one full credit).**

BROADCAST JOURNALISM I

Course Number: 5080

Placement: 9-12

Credits: ½-1

Prerequisite: None

Broadcast journalism is an introductory course designed to acquaint students with basic broadcast writing style and develop on-camera techniques. In addition, students will explore the history of radio and television and examine the responsibilities and ethics of broadcast journalists.

BROADCAST JOURNALISM II, III (T.V.)

Course Number(s): 5081, 5017

Placement: 10-12

Credits: ½-1

Prerequisite: Broadcast Journalism I or Journalism I

Students will learn the basics of video production. The class begins with the history of broadcast journalism, and moves to the exploration of story types. Students will be trained in digital video camera techniques, including the basics of shooting and electronically editing video stories. This class collaborates with the print and online publications (newspaper & yearbook) classes to combine /converge print media with broadcast media, for publication on the Internet. The prospective student acknowledges and agrees to the necessity for occasional after-hours (early mornings, evenings, weekends, etc.) work to cover stories and meet deadlines.

VISUAL MEDIA ANALYSIS AND PRODUCTION

Course Number: 5085

Placement: 10-12

Credits: 1

Prerequisite: Journalism I or Photojournalism I or Broadcast Journalism I

This media production class will produce a variety of visual media content. Researched stories, graphics, photos, videos and more will be created in this class then published to the school's newspaper, yearbook or broadcast outlets. Journalism teacher approval is needed for this course.

CONTEMPORARY MEDIA

Course Number: 5086

Placement: 10-12

Credits: 1

Prerequisite: Journalism I or Photojournalism I or Broadcast Journalism I

This advanced media class will produce a variety of contemporary media content including, but not limited to, stories, graphics, photos, sidebars, online interactive components, videos and other coverage. Content created will be published to the school's media outlets. Students are expected to work independently on projects. Journalism teacher approval is needed for this course.

Note about Advanced Lab Journalism Classes

The commitment to meeting deadlines means the student must be able to exercise good time-management, and from time-to-time give priority to their journalism responsibilities over other outside activities.

English Credit for Class of 2018 and Forward

Students in any third level advanced journalism class (Yearbook III, Newspaper III) or Broadcast Journalism II, are eligible for an English credit their senior year.

V. COURSE DESCRIPTIONS - LOTE

LANGUAGES OTHER THAN ENGLISH (LOTE)



Fifth level of foreign language classes will be available based upon student demand. Students are encouraged to enroll in community college or 4-year college at this level. Students may receive dual credit upon proof of completion.

AMERICAN SIGN LANGUAGE I

Course Number: 7600BB

Placement: 9-12

Credits: 1

Prerequisite: None

This course introduces communication skills in American Sign Language, including both receptive and expressive signing, as well as interactive communication. This course also explores the history of the language and the culture of deaf people.

AMERICAN SIGN LANGUAGE II

Course Number: 7610BB

Placement: 9-12

Credits: 1

Prerequisite: American Sign Language I

The communication skills acquired in Level I are extended to include distinguishing between variations in signs and non-manual communication. A more in-depth study of deaf culture will be explored. Students will be provided opportunities to express and receive signed information in a variety of situations.

AMERICAN SIGN LANGUAGE III

Course Number: 7620BB

Placement: 10-12

Credits: 1

Prerequisite: American Sign Language II

This course is conducted in ASL and emphasizes sign fluency. It offers further study of vocabulary, grammar, as well as deaf history and culture. Expressive and receptive skills will be developed. Non-manual markers and the use of classifiers will be stressed.

AMERICAN SIGN LANGUAGE IV

Course Number: 7630BB

Placement: 10-12

Credits: 1

Prerequisite: American Sign Language III

This advanced level course, conducted in ASL, furthers study of ASL poetry and literature as well as deaf history, culture and community. Students will also be afforded opportunities to further their sign fluency and will be encouraged to become involved in the local deaf community. Students will also explore professions which utilize ASL skills along with laws and rights related to Americans with disabilities.

V. COURSE DESCRIPTIONS - LANGUAGES OTHER THAN ENGLISH (LOTE)

(TCC) SGNL 1401 BEGINNING AMERICAN SIGN LANGUAGE I

Course Number: 0760

Placement: 10-12

Credits: 1

Prerequisite: 80+ GPA & TSI Assessment

Introduction to American Sign Language covering finger spelling, vocabulary and basic sentence structure in preparing individuals to interpret oral speech for the hearing impaired. This course will be offered at BBIA only. It is recommended that students have some high school experience with ASL prior to dual credit enrollment. This is not a requirement. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes. (MISD requirement only)**

(TCC) SGNL 1402 BEGINNING AMERICAN SIGN LANGUAGE II

Course Number: 0761

Placement: 10-12

Credits: 1

Prerequisite: 80+ overall GPA & TSI Assessment

Introduction to American Sign Language covering finger spelling, vocabulary and basic sentence structure in preparing individuals to interpret oral speech for the hearing impaired. This course will be offered at BBIA only. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes. (MISD requirement only)**

(TCC) SGNL 2301 INTERMEDIATE SIGN LANGUAGE I

Course Number: 0762

Placement: 11-12

Credit: 1

Prerequisite: 80+ overall GPA & TSI Assessment

Review and application of conversational skills in American Sign Language interpreting from signing to voice as well as from voice to signing. Introduction to American Sign Language literature and folklore. This course will be offered at BBIA only. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes. (MISD requirement only)**

(TCC) SGNL 2302 INTERMEDIATE SIGN LANGUAGE II

Course: 0763

Placement: 11-12

Credit: 1

Prerequisite: 80 + overall GPA & TSI Assessment

Review and application of conversational skills in American Sign Language interpreting from signing to voice as well as from voice to signing. Introduction to American Sign Language literature and folklore. This course will be offered at BBIA only. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes. (MISD requirement only)**

CHINESE I

Course Number: 7500BB

Placement: 9-12

Credits: 1

Prerequisite: None

Chinese I is an introduction to the Chinese world, its language and its people. The main emphasis is on oral skills while developing reading and writing skills. The student will be guided in recognizing the interrelationships of language and will develop a cultural appreciation of the Chinese world. The focus of the course is on novice proficiency.

CHINESE II

Course Number: 7510BB

Placement: 9-12

Credits: 1

Prerequisite: Chinese I

Chinese II continues to develop the oral skills with added emphasis on reading and writing skills. The focus is on the development of mid-to high-novice proficiency. Expansion of vocabulary and grammatical structures continues. Contrast between English and Chinese will strengthen the language learning process. Culturally related activities of selected Chinese speaking countries or regions will be explored.

PRE-ADVANCED PLACEMENT CHINESE II

Course Number: 7513BB

Placement: 9-12

Credits: 1

Prerequisite: Chinese I

Chinese II continues to develop the oral skills with added emphasis on reading and writing skills. The focus is on the development of mid-to high-novice proficiency. Expansion of vocabulary and grammatical structures continues. Contrast between English and Chinese will strengthen the language learning process. Culturally related activities of selected Chinese speaking countries or regions will be explored.

PRE-ADVANCED PLACEMENT CHINESE III

Course Number: 7523BB

Placement: 10-12

Credits: 1

Prerequisite: Chinese II or Pre-AP Chinese II

Chinese III continues to develop the oral and writing skills with added emphasis on reading. The focus is on the development of novice mid-to intermediate-low proficiency in speaking with increased emphasis on Advanced Placement exam preparation. Expansion of vocabulary and grammatical structures continues. Culturally-related activities of selected Chinese regions will be explored.

V. COURSE DESCRIPTIONS - LANGUAGES OTHER THAN ENGLISH (LOTE)

ADVANCED PLACEMENT CHINESE IV

Course Number: 7530BB

Placement: 10-12

Credits: 1

Prerequisite: Pre-AP Chinese III

AP Chinese IV prepares students to demonstrate intermediate proficiency across the full range of language skills within a cultural frame of reference. The course will develop reading proficiency of authentic texts, fiction and non-fiction, listening proficiency of formal and colloquial authentic language, and writing proficiency in descriptive, expository, and persuasive styles. This course utilizes critical thinking, reading, and writing skills. The goal of this course is to prepare students to take the AP Chinese Language and Culture exam. This course is conducted predominately in Chinese.

FRENCH I

Course Number: 7000

Placement: 9-12

Credits: 1

Prerequisite: None

In this course, students begin conversational French as they learn to interact with peers and adults in French, exchange information in French, express opinions and feelings, and persuade peers and adults in French. Students also study cultural history, contemporary attitudes of the Francophone world, and the geography of Paris and France.

FRENCH II

Course Number: 7010

Placement: 9-12

Credits: 1

Prerequisite: French I

This course continues the study of the language and culture with an emphasis on communicating in French. Students also study cultural history, contemporary attitudes of the Francophone world, and the geography of France.

PRE-ADVANCED PLACEMENT FRENCH II

Course Number: 7013

Placement: 9-12

Credits: 1

Prerequisite: French I

This course studies in more depth the language and culture with an emphasis on communicating in French. Students also study cultural history, contemporary attitudes of the Francophone world, and the geography of France. Contemporary French films may be used as a tool to study authentic use of the language and as examples of the cultures of the Francophone world.

PRE-ADVANCED PLACEMENT FRENCH III

Course Number: 7023

Placement: 10-12

Credits: 1

Prerequisite: French II or Pre-AP French II

This honors course expands students' development in speaking, listening, writing, and reading, especially in everyday situations. Literary selections are included for study of language and culture. The class uses contemporary French films as tools to study authentic language and as examples of the cultures of the Francophone world.

ADVANCED PLACEMENT FRENCH IV

Course Number: 7033

Placement: 10-12

Credits: 1

Prerequisite: Pre-AP French III

This course studies the development of personal expression in everyday situations with a focus on reading, writing, and language. Students will be prepared to take the AP French Language exam.

GERMAN I

Course Number: 7100BB

Placement: 9-12

Credits: 1

Prerequisite: None

This course introduces the basics of conversational German and exposes the student to the culture, heritage, and people of Germany. Students will learn how to socialize, get and give information, express feelings, and persuade others.

GERMAN II

Course Number: 7110BB

Placement: 9-12

Credits: 1

Prerequisite: German I

This course continues the study of the German language and culture with emphasis on speaking and communicating.

PRE-ADVANCED PLACEMENT GERMAN II

Course Number: 7113BB

Placement: 9-12

Credits: 1

Prerequisite: German I

This course continues the study of basic German, concentrating on listening, speaking, reading, and writing skills. The focus for this honors class will be on real world projects.

PRE-ADVANCED PLACEMENT GERMAN III

Course Number: 7123BB

Placement: 10-12

Credits: 1

Prerequisite: German II or Pre-AP German II

This honors course is a continuation of the development of reading, writing, listening and speaking skills begun in German I and II. Geography, culture and functioning in everyday situations will be stressed. Students will begin to prepare for the AP test.

V. COURSE DESCRIPTIONS - LANGUAGES OTHER THAN ENGLISH (LOTE)

ADVANCED PLACEMENT GERMAN IV

Course Number: 7140BB

Placement: 10-12

Credits: 1

Prerequisite: Pre-AP German III

This course is a continuation of the development of reading, writing, listening and speaking skills begun in German I and II. Advanced grammar and literature will be stressed. Students will be prepared to take the AP German Language test.

JAPANESE I

Course Number: 7700BB

Placement: 9-12

Credits: 1

Prerequisite: None

This course introduces the basics of conversational Japanese and exposes the student to the culture, heritage, and people of Japan. Students will learn how to socialize, get and give information, express feelings, and persuade others.

JAPANESE II

Course Number: 7710BB

Placement: 9-12

Credits: 1

Prerequisite: Japanese I

Japanese II further develops the skills introduced in Japanese I. Emphasis is on oral and written communication skills. Expansion of vocabulary and grammatical structures continues. Katakana letters and Chinese characters are introduced.

PRE-ADVANCED PLACEMENT JAPANESE II

Course Number: 7713BB

Placement: 9-12

Credits: 1

Prerequisite: Japanese I

Pre-AP Japanese II further develops the skills introduced in Japanese I. Emphasis is on oral and written communication skills. Expansion of vocabulary and grammatical structures continues. Katakana letters and Chinese characters are introduced. Real life Japanese, such as informal speech styles, is also introduced.

PRE-ADVANCED PLACEMENT JAPANESE III

Course Number: 7720BB

Placement: 10-12

Credits: 1

Prerequisite: Japanese II

Pre-AP Japanese III provides for an in-depth development of the skills introduced in the previous courses. Further expansion of vocabulary, grammatical structures, and Chinese characters continues. Students are expected to develop communication skills in various real life settings.

ADVANCED PLACEMENT JAPANESE IV

Course Number: 7730BB

Placement: 10-12

Prerequisite: Pre-AP Japanese III

Credits: 1

AP Japanese IV provides for further development of communication skills in Japanese in preparation for the AP Japanese Language examination. Emphasis is on advanced grammar and composition as well as comprehension and speaking in a variety of real life settings. Students will be prepared to take the AP exam.

LATIN I

Course Number: 7400BB

Placement: 9-12

Credits: 1

Prerequisite: None

This course will help students with their comprehension of the Latin language through practice in reading Latin passages. Students will also develop a better understanding of the social and political history of the ancient Romans.

LATIN II

Course Number: 7410BB

Placement: 10-12

Credits: 1

Prerequisite: Latin I

This course continues to develop the vocabulary and grammar skills necessary to read and comprehend Latin passages. Students will continue to develop, through their readings, an understanding of Roman culture.

PRE-ADVANCED PLACEMENT LATIN II

Course Number: 7413BB

Placement: 10-12

Credits: 1

Prerequisite: Latin I

This pre-advanced placement course requires a deeper study and understanding of the Latin language and Roman culture. This course continues to develop the vocabulary and grammar skills necessary to read and comprehend Latin passages. Students will continue to develop, through their readings, an understanding of Roman culture.

PRE-ADVANCED PLACEMENT LATIN III

Course Number: 7423BB

Placement: 10-12

Credits: 1

Prerequisite: Latin II or Pre-AP Latin II

In the final course of the recommended three-year sequence of language study, the Latin III student continues to develop the skills to read and comprehend slightly adapted and authentic classical passages at an advanced level. Students will continue to develop, through their readings, an understanding of Roman culture.

V. COURSE DESCRIPTIONS - LANGUAGES OTHER THAN ENGLISH (LOTE)

ADVANCED PLACEMENT LATIN IV

Course Number: 7430BB

Placement: 11-12

Credits: 1

Prerequisite: Pre-AP Latin III

This fourth-year course focuses on reading Latin poetry and prose with special emphasis on Vergil's epic poem "The Aeneid" and the writings of Julius Caesar. The student will gain insight into the special conventions of poetry, as well as continued knowledge and understanding of the Greco-Roman world and mythology. Students may prepare for a variation of the College Board (CB) Latin Advanced Placement (AP) Examination, which focuses on poetry and prose in this Level IV course.

ADVANCED SPANISH FOR SPANISH SPEAKERS

Course Number: 7385/7390

Placement: Department Approval

Credits: 3

Prerequisite: Departmental Approval

This course is designed for students who have proficient oral production and comprehension skills in Spanish. The course emphasis includes Hispanic culture, reading, and writing skills. Class will be conducted entirely in Spanish. Students will receive credit for Spanish I and II first semester and Spanish III second semester. Este curso está diseñado para estudiantes que tienen proficiencia oral y de comprensión en la lengua Española. El énfasis de la clase incluye cultura Hispánica, lectura y escritura. La clase será dictada en Español en su totalidad. Los estudiantes recibirán crédito equivalente a la asignatura de Español I y Español II el primer semestre y Español III segundo semestre.

SPANISH I

Course Number: 7300/7300BB

Placement: 9-12

Credits: 1

Prerequisite: None

This course is designed to introduce students to the Spanish language and culture. The students will develop skills in listening, speaking, reading, and writing Spanish. Students will explore various aspects of Hispanic culture, heritage, and peoples. Major emphasis is on conversational usage of Spanish in real-life situations.

SPANISH II

Course Number: 7310/7310BB

Placement: 9-12

Credits: 1

Prerequisite: Spanish I

This course further develops the skills introduced in Spanish I. The students will be involved in an in-depth study of the spoken language, listening, reading, writing, and literature.

PRE-ADVANCED PLACEMENT SPANISH II

Course Number: 7320/7320BB

Placement: 9-12

Credits: 1

Prerequisite: Spanish I

This course provides for an in-depth development of the skills introduced in Spanish I. Oral comprehension and reading skills are emphasized. Grammar, vocabulary, literature, and cultural studies are also included.

PRE-ADVANCED PLACEMENT SPANISH III

Course Number: 7340/7340BB

Placement: 9-12

Credits: 1

Prerequisite: Spanish II or Pre-AP Spanish II

This honors course is a continuation of the study of the Spanish language with special emphasis on reading comprehension, listening, speaking and advanced grammar and composition in preparation for the AP Spanish Language exam.

ADVANCED PLACEMENT SPANISH IV

Course Number: 7360/7360BB

Placement: 9-12

Credits: 1

Prerequisite: Pre-AP Spanish III or Advanced Spanish for Spanish Speakers

This course is an intensive study of Spanish language in preparation for the AP Spanish Language exam. Emphasis is on advanced grammar, literature, and composition as well as listening comprehension and speaking. Students will be prepared to take the AP test.

ADVANCED PLACEMENT SPANISH V

Course Number: 7370

Placement: 9-12

Credits: 1

Prerequisite: AP Spanish IV

This course is an intensive study of Spanish literature in preparation for the AP Spanish Literature exam. Emphasis is on advanced grammar, literature, and composition. Students will be prepared to take the AP test.

V. COURSE DESCRIPTIONS - LANGUAGES OTHER THAN ENGLISH (LOTE)

COMPUTER SCIENCE I

Course Number: 1050CT

Placement: 9-12

Credits: 1

Prerequisite: Algebra I

Computer Science I will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts. This is a Project Lead the Way course. Note: Course can be used as a LOTE credit for graduation.

COMPUTER SCIENCE II

Course Number: 1051CT

Placement: 9-12

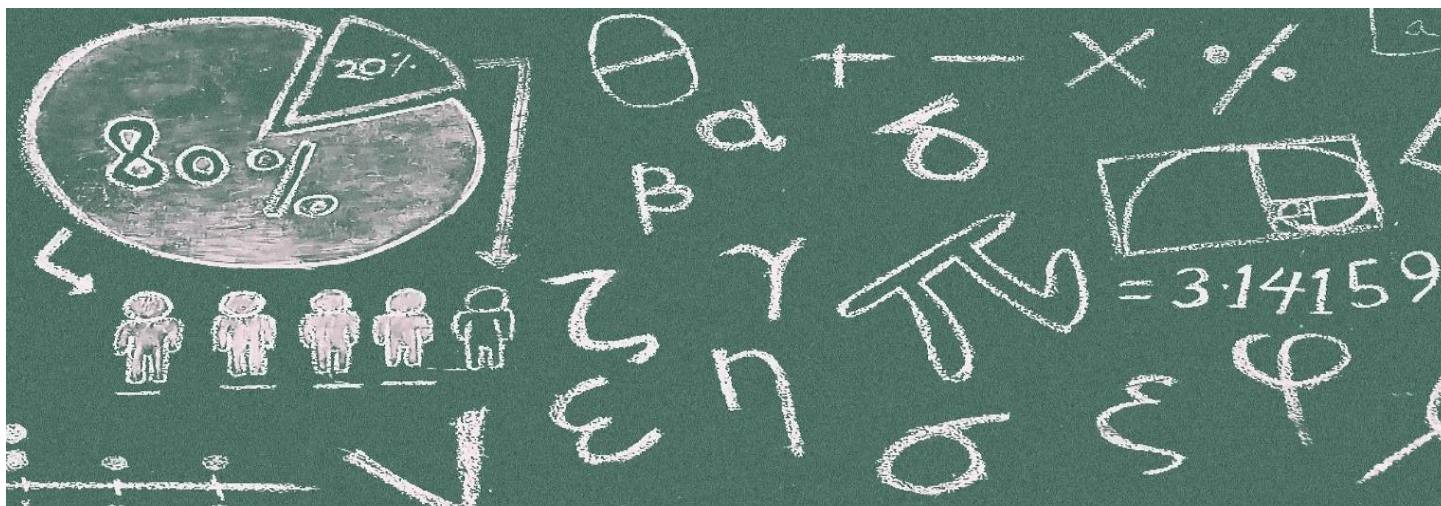
Credits: 1

Prerequisite: Computer Science I

Computer Science II will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of computer science through the study of technology operations, systems, and concepts. This is a Project Lead the Way course. Note: Course can be used as a LOTE credit for graduation.

V. COURSE DESCRIPTIONS - MATHEMATICS

MATHEMATICS



FUNDAMENTALS OF ALGEBRA I

Course Number: 6000

Placement: 9-12

Credits: 1

Prerequisite: ARD Approval

This course will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Student will connect functions and their associated solutions in problem situations. Topics also covered will be polynomials of degree one and two, radical expressions, sequences, and laws of exponents. The course will include linear systems. This course encompasses a modified curriculum for Alg I.

ALGEBRA I

Course Number: 6030

Placement: 9

Credits: 1

Prerequisite: 8th grade Math

This course will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Student will connect functions and their associated solutions in problem situations. Topics also covered will be polynomials of degree one and two, radical expressions, sequences, and laws of exponents. The course will include linear systems.

PRE-ADVANCED PLACEMENT ALGEBRA I

Course Number: 6033

Placement: 9

Credits: 1

Prerequisite: 8th grade Math

In addition to material usually covered in Algebra I, topics will be expanded and taught at a more rigorous, in-depth level. Emphasis will be placed on the application of concepts and skills introduced in Algebra I. The level of instruction/curriculum will focus on preparing the student for advanced placement mathematics courses.

FUNDAMENTALS OF GEOMETRY

Course Number: 6003

Placement: 9-12

Credits: 1

Prerequisite: ARD Approval

Relations, properties, and measurement of surfaces, lines, and angles in one, two, and three-dimensional figures are investigated and used in this course. Students will use deductive reasoning to justify, prove formally and apply theorems about geometric figures. Probability concepts are included in this course. This course encompasses a modified curriculum for Geometry.

V. COURSE DESCRIPTIONS - MATHEMATICS

GEOMETRY

Course Number: 6050

Placement: 9-10

Credits: 1

Prerequisite: Algebra I

Relations, properties, and measurement of surfaces, lines, and angles in one, two, and three-dimensional figures are investigated and used in this course. Students will use deductive reasoning to justify, prove formally and apply theorems about geometric figures. Probability concepts are included in this course.

PRE-ADVANCED PLACEMENT GEOMETRY

Course Number: 6053

Placement: 9-10

Credits: 1

Prerequisite: Algebra I or Pre-AP Algebra I

In addition to material usually covered in Geometry, topics will be expanded and taught at a more rigorous, in-depth level. Emphasis will be placed on the application of concepts and skills introduced in Geometry. The level of instruction/curriculum will focus on preparing the student for advanced placement mathematics courses.

FUNDAMENTALS OF MATHEMATICAL MODELS WITH APPLICATIONS

Course Number: 6005

Placement: 11-12

Credits: 1

Prerequisite: ARD Approval

Students will use a variety of representations (concrete, numerical, graphical, verbal, and tabular) and technology to solve applied problems. Students will use a basic mathematical modeling cycle to solve real-life application problems involving personal finance, science, engineering, fine arts, and social sciences. This course encompasses a modified curriculum for Mathematical Models with Applications.

MATHEMATICAL MODELS WITH APPLICATIONS

Course Number: 6060

Placement: 11-12

Credits: 1

Prerequisite: Algebra I

Students will use a variety of representations (concrete, numerical, graphical, verbal, and tabular) and technology to solve applied problems. Students will use a basic mathematical modeling cycle to solve real-life application problems involving personal finance, science, engineering, fine arts, and social sciences. **This course is recommended to be taken after Geometry.**

STATISTICS

Course Number: 6067

Placement: 11-12

Credits: 1

Prerequisite: Algebra I

Students will broaden their knowledge of variability and statistical processes. Students will study sampling and experimentation, categorical and quantitative data, probability and random variables, inference, and bivariate data. Students will connect data and statistical processes to real-world situations. In addition, students will extend their knowledge of data analysis. **This course is recommended to take after Algebra II or Algebraic Reasoning.**

ALGEBRAIC REASONING

Course Number: 6095

Placement: 10-12

Credits: 1

Prerequisite: Algebra I

Students will broaden knowledge of functions and relationships, including linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value, and logarithmic functions. Study of functions will be made through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build to workforce and college readiness such as probes, measurement tools, and software tools, including spreadsheets. **This course is recommended to take after Geometry.**

ALGEBRA II

Course Number: 6070

Placement: 10-12

Credits: 1

Prerequisite: Algebra I

This course is a continuation of the topics studied in Algebra I. Students will broaden their knowledge of quadratic functions, exponential functions, and systems of equations. Students will study logarithmic, square root, cubic, cube root, absolute value, rational functions, and their related equations. Students will extend their knowledge of data analysis and numeric and algebraic methods. **This course is recommended to be taken after Geometry. Students must successfully complete Algebra II prior to taking a higher math class. This course (or the Pre-AP level) is required for a Distinguished Level of Achievement or STEM Endorsement.**

V. COURSE DESCRIPTIONS - MATHEMATICS

PRE-ADVANCED PLACEMENT ALGEBRA II

Course Number: 6080

Placement: 10-11

Credits: 1

Prerequisite: Algebra I or Pre-AP Algebra I

In addition to the material usually covered in Algebra, topics will be expanded and taught at a more rigorous, in-depth level. Emphasis will be placed on the application of concepts and skills introduced in Algebra II. The level of instruction/curriculum will focus on preparing the student for further advanced placement courses. **This course is recommended to be taken after Geometry. Students must successfully complete prior to taking a higher math class.**

ADVANCED QUANTITATIVE REASONING (AQR)

Course Number: 6090

Placement: 11-12

Credits: 1

Prerequisite: Geometry, Algebra II or Pre-AP Algebra II

Students will develop and apply skills necessary for college, careers, and life. Course content consists primarily of applications of high school mathematics concepts to prepare students to become well-educated and highly informed 21st century citizens. Students will develop and apply reasoning, planning, and communication to make decisions and solve problems in applied situations involving numerical reasoning, probability, statistical analysis, finance, mathematical selection, and modeling with algebra, geometry, trigonometry, and discrete mathematics. This course is eligible as a 5th math option for the STEM endorsement.

PRE-CALCULUS

Course Number: 6150

Placement: 11-12

Credits: 1

Prerequisite: Algebra I, Geometry, and Algebra I

This course approaches topics from a function point of view. Students systematically work with functions and their multiple representations. Students investigate and explore mathematical ideas, develop multiple strategies for analyzing complex situations, and use technology to build understanding, make connections between representations, and provide support in solving problems. This course is eligible as a 5th math option for the STEM endorsement.

PRE-ADVANCED PLACEMENT PRE-CALCULUS

Course Number: 6160

Placement: 11-12

Credits: 1

Prerequisite: Algebra I, Geometry, and Pre-AP Algebra II/Algebra II

In addition to the topics studied in Pre-Calculus, topics will be expanded and taught at a more rigorous, in-depth level. Emphasis will be placed on the application of concepts and skills. The level of instruction/curriculum will focus on preparing the student for advanced placement courses. This course is eligible as a 5th math option for the STEM endorsement.

ADVANCED PLACEMENT CALCULUS AB

Course Number: 6201

Placement: 11-12

Credits: 1

Recommended Prerequisite: Pre-AP Pre-Calculus

This course is designed for the student who has displayed both exceptional talent and diligence in the study of all other selected high school courses. Topics of study will include limits and continuity, derivatives, the fundamental theorem of calculus, special functions, techniques of integration, partial derivatives, and multiple integration. Analytic geometry will be included as needed. A TI-84 will be used in the classroom, and graphing calculators of this type will be required for homework. A graphing calculator with numerical differentiation and integration capabilities is required for the Advanced Placement Calculus Test. This course is the equivalent of a Calculus I course at the college level. At the conclusion of this course, students may take the Advanced Placement AB Calculus Test which provides the opportunity to earn college credit in calculus. This course is eligible as a 5th math option for the STEM endorsement.

ADVANCED PLACEMENT CALCULUS BC

Course Number: 6202

Placement: 12

Credits: 1

Recommended Prerequisite: Pre-AP Pre-Calculus

This course is an expansion of the Advanced Placement Calculus AB course. It includes all topics covered in Advanced Placement Calculus AB plus additional topics. Common topics require a similar depth of understanding. This course is the equivalent of a combined Calculus I and Calculus II course at the college level. Broad concepts and widely applicable models are emphasized. The TI-84 will be used in the classroom, and graphing calculators of this type will be required for homework. Extensions to AP Calculus AB include: parametric, polar, and vector functions; use of slope fields and Euler's method to find solutions to differential equations; improper integrals and series; solving logistic equations; polynomial approximations and series, including Taylor and Maclaurin series. At the conclusion of this course, students may take the Advanced Placement BC Calculus Test which provides the opportunity to earn college credit in calculus. This course is eligible as a 5th math option for the STEM endorsement.

V. COURSE DESCRIPTIONS - MATHEMATICS

ADVANCED PLACEMENT STATISTICS

Course Number: 6203

Placement: 11-12

Credits: 1

Recommended Prerequisite: Algebra II and Geometry

The purpose of this Advanced Placement course in statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Therefore, AP Statistics would be an excellent choice for students interested in pursuing a career in business or medicine. Students are exposed to the four broad conceptual themes which follow: 1) Exploring data – observing patterns and departures from patterns; 2) Planning a study – deciding what and how to measure; 3) Anticipate patterns – producing models using probability and simulation; and 4) Statistical inference – confirming models. This is a communications course in which students are taught to analyze data utilizing calculators and computers. At the conclusion of this course, students may take the Advanced Placement Statistics Test which provides the opportunity to earn college credit in statistics. This course is eligible as a 5th math option for the STEM endorsement.

STAAR/EOC MATHEMATICS REMIEDIATION/ENRICHMENT/ACCELERATION

Course Number 6300

Placement: 9-12

Credits: ½-1

Prerequisite: None

This course will provide remediation/ enrichment/ acceleration for students who did not pass the Algebra EOC, or students who require additional support based on previous performance on State math assessments/math academic performance. This course will enable students to improve mathematical skills. This course may **not** be used to fulfill any of the math requirements for graduation. It will count for local elective credit only.

(TCC) ALGEBRA

Course Number: 0610

Placement: 11-12

Credits: ½

Prerequisite: Successful completion of Algebra II, 80+ Overall GPA & TSI Assessment

TCC corresponding college credit:

MATH 1314 – College Algebra (3 semester hours)

This is a regular college-level Algebra class with an in-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Students will attend TCC classes on their home campus. This course meets .5 of the fourth year math high school graduation requirement. **The math TSI Assessment must be passed before students will be allowed to enroll in TCC classes.**

(TCC) STATISTICS

Course Number: 0614

Placement: 11-12

Credits: ½

Prerequisite: Successful completion of Algebra II, 80+ Overall GPA & TSI Assessment

TCC corresponding college credit:

MATH 1342 – Elementary Statistical Methods (3 semester hours)

This is a regular college-level Statistics course examining collection, analysis, presentation and interpretation of data. Students will attend TCC classes on their home campus. This course meets .5 of the fourth year math high school graduation requirement. **The reading and math TSI Assessments must be passed before students will be allowed to enroll in TCC classes.**

(TCC) PRE-CALCULUS

Course Number: 0617

Placement: 11-12

Credits: 1

Prerequisite: Successful completion of MATH 1314 & TSI Assessment

TCC corresponding college credit: MATH 2412 – Pre-Calculus (4 semester hours). This is a regular college-level Pre-Calculus course offering an in-depth study of algebra, trigonometry, and other topics for calculus readiness. Students will attend TCC classes on their home campus. This course meets the fourth year math high school graduation requirement. This course is double blocked. **The math TSI Assessment must be passed before students will be allowed to enroll in TCC classes.**

(TCC) MATHEMATICS FOR BUSINESS

Course Number: 0611

Placement: 12

Credits: ½

Prerequisite: 80+ Overall GPA & TSI Assessment

TCC corresponding college credit: MATH 1324 – Mathematics for Business and Social Science (3 semester hours). This is a regular college-level mathematics course including the study of algebra, mathematics of finance, linear programming, systems of linear equations, applications to management, economics and business. Students will attend TCC classes on their home campus. **The math TSI Assessment must be passed before students will be allowed to enroll in TCC classes.**

(TCC) MATHEMATICS FOR BUSINESS II

Course Number: 0612

Placement: 12

Credits: ½

Prerequisite: Math 1324 or Math 1314

TCC corresponding college credit: MATH 1325 – Mathematics for Business and Social Science II (3 semester hours). This is a regular college-level mathematics course including the study of limits and continuity, derivatives, graphing, and optimization, exponential and logarithmic functions, antiderivatives, integration, applications to management, economics, and business. Students will attend TCC classes on their home campus. **The math TSI Assessment must be passed before students will be allowed to enroll in TCC classes.**

COLLEGE READINESS MATH I

Course Number: 0618

Placement: 12

Recommended Prerequisite: TSI Assessment (not required)

Credits: ½

TCC corresponding course: MATH 0361-Developmental Math I. This course will study topics in mathematics such as arithmetic operations, basic algebraic concepts and notation, geometry, and real and complex number systems. The content revisits concepts from Algebra I and Geometry to support student readiness for college level mathematics. Students that scored a 500 or below on their 11th grade PSAT would be good candidates for this course. This course follows the TCC grading guidelines. The TSI Assessment will be administered at the end of this course.

COLLEGE READINESS MATH II

Course Number: 0619

Placement: 12

Credits: ½

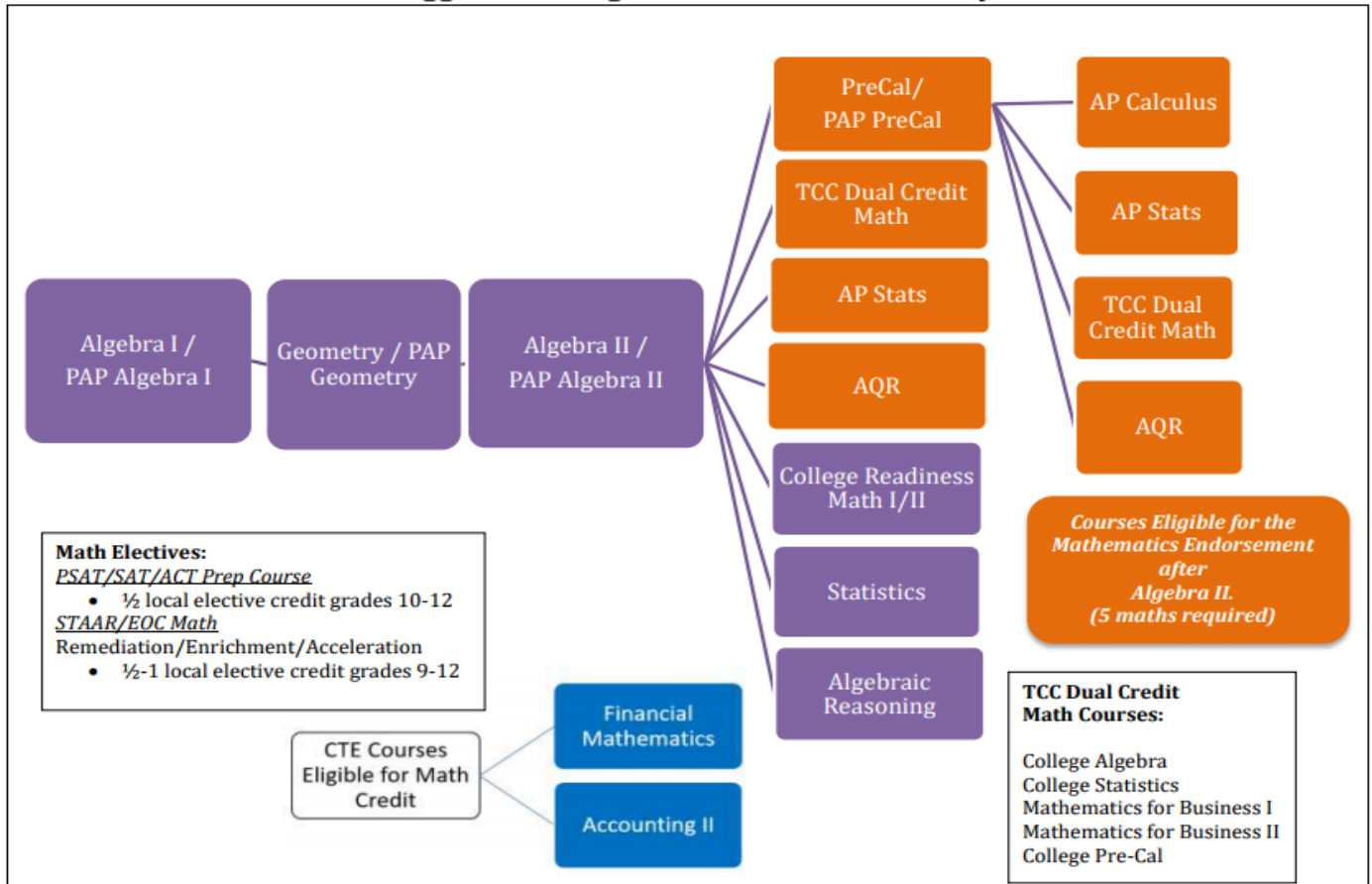
Prerequisite: TSI Assessment or College Readiness Math I

TCC corresponding course: MATH 0362-Intermediate Algebra (Developmental Math II)

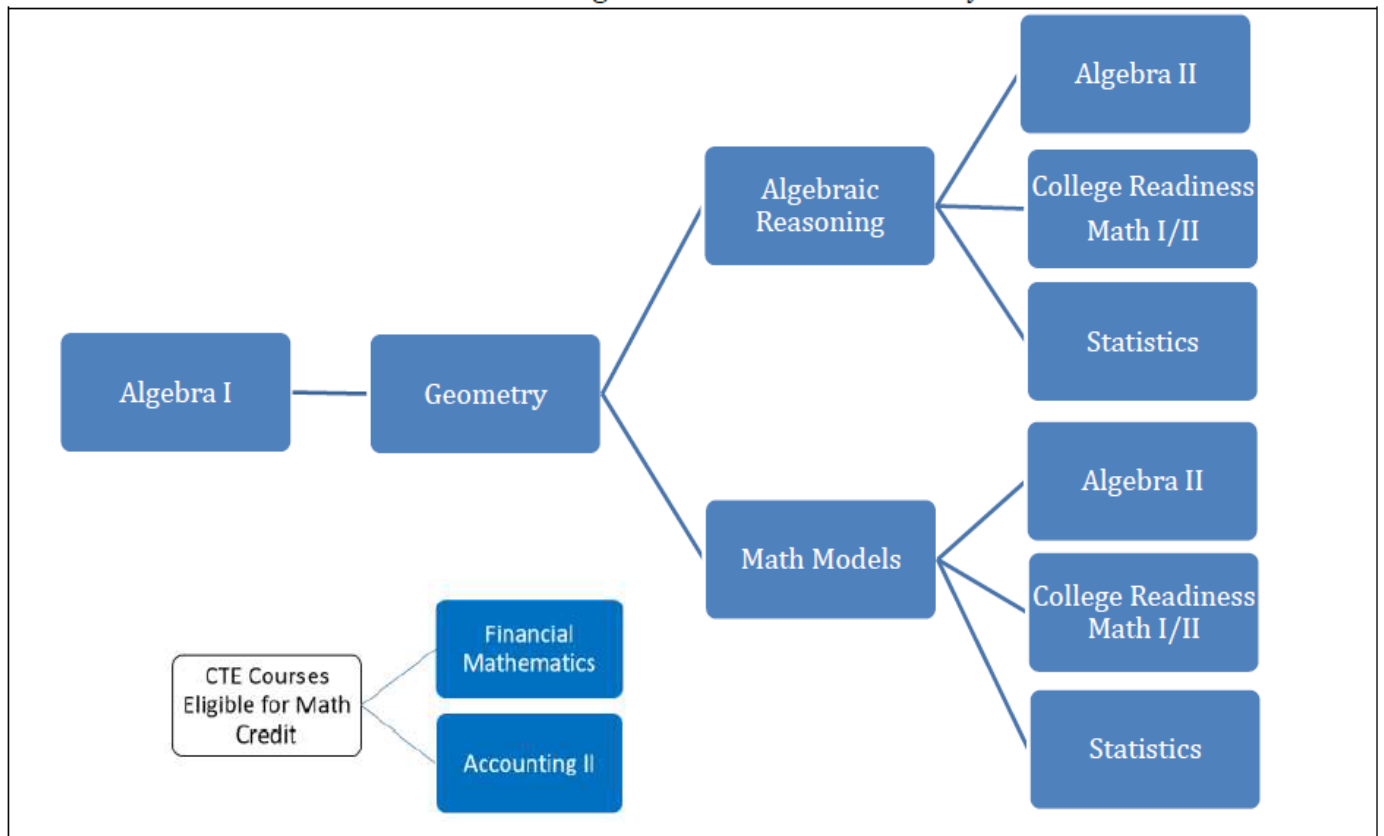
This course is a study of relations and functions, inequalities, algebraic expressions and equations (absolute value, polynomial, radical, rational), with a special emphasis on linear and quadratic expressions and equations. The content prepares for student readiness in college level mathematics. Students that scored a 500 or below on their 11th grade PSAT would be good candidates for this course. This course follows TCC grading guidelines. **Upon successful completion of this course with a grade of 70 or above, a student will be TSI exempt with TCC for up to one year after high school graduation and may enroll into entry level TCC math courses.**

V. COURSE DESCRIPTIONS - MATHEMATICS

Suggested College Readiness Math Pathways

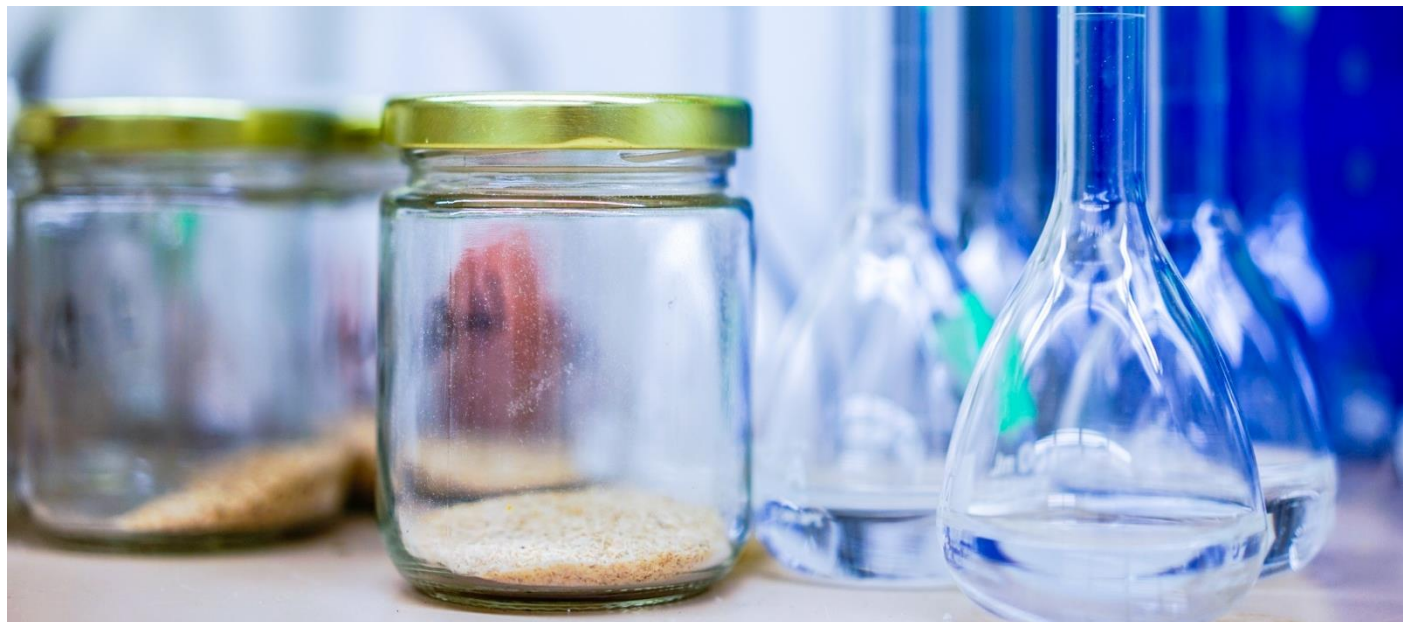


Alternative College Readiness Math Pathways



V. COURSE DESCRIPTIONS - SCIENCE

SCIENCE



FUNDAMENTALS OF BIOLOGY

Course Number: 8400

Placement: 9-12

Credits: 1

Prerequisite: ARD Approval

This course provides a general knowledge of the natural order of living organisms and their relationship with the environment. Areas of study will include the systems and ecology. Laboratory procedures, observation, measurement, classification, prediction, and reporting skills will be emphasized. Fundamentals of Biology teachers deliver instruction on proper interaction with peace officers in the spring semester. This course encompasses a modified curriculum for Biology.

PRACTICAL BIOLOGY

Course Number: 5410

Placement: 9-12

Credits: 1

Prerequisite: ARD Approval

This course provides a practical level of biology related to the natural order of living organisms and their relationship with the environment. Areas of study will include the systems and ecology at a practical level. Laboratory procedures, observation, measurement, classification, prediction, and reporting skills will be emphasized. Practical Biology teachers deliver instruction on proper interaction with peace officers in the spring semester. This course encompasses an alternate curriculum for Biology.

BIOLOGY

Course Number: 8000

Placement: 9-12

Credits: 1

Prerequisite: None

This course provides a general knowledge of the natural order of living organisms and their relationship with the environment. Areas of study will include the systems and ecology. Laboratory procedures, observation, measurement, classification, prediction, and reporting skills will be emphasized. Biology I teachers deliver instruction on proper interaction with peace officers in the spring semester. TEA Recommendation: For students in grades 9, 10, or 11.

PRE-ADVANCED PLACEMENT BIOLOGY

Course Number: 8003

Placement: 9-12

Credits: 1

Prerequisite: None

This course is designed for students who show an advanced aptitude toward science. Areas of study will include the essential elements and objectives of those in regular Biology I with greater depth and at a more accelerated rate. A greater emphasis will be placed on lab and the ability to evaluate, outline, organize, and report scientific information. Laboratory procedures, observation, measurement, classification, prediction, and reporting skills will be stressed. Therefore, strong math skills are important. The student should be proficient in reading and projects are required. Pre-AP Biology teachers deliver instruction on proper interaction with peace officers in the spring semester.

V. COURSE DESCRIPTIONS - SCIENCE

FUNDAMENTALS OF INTEGRATED PHYSICS AND CHEMISTRY (IPC)

Course Number: 8410

Placement: 9-12

Credits: 1

Prerequisite: ARD Approval

Integrated Physics and Chemistry (IP&C) is a study of the physical aspects of the world. Topics will include properties of matter, atomic structure, the periodic table, motion, energy, forces, work, machines and electricity. A large portion of this course will consist of laboratory and demonstrations. This course encompasses a modified curriculum for IPC.

PRACTICAL INTEGRATED PHYSICS AND CHEMISTRY (IPC)

Course Number: 5420

Placement: 9-12

Credits: 1

Prerequisite: ARD Approval

This course provides a practical level of integrated physics and chemistry as related to physical aspects of the world. Topics will include properties of matter, atomic structure, the periodic table, motion, energy, forces, work, machines and electricity at a practical level. A large portion of this course will consist of laboratory and demonstrations. This course encompasses an alternate curriculum for IPC.

INTEGRATED PHYSICS AND CHEMISTRY (IPC)

Course Number: 5420

Placement: 9-12

Credits: 1

Prerequisite: None

Integrated Physics and Chemistry (IPC) is a study of the physical aspects of the world. Topics will include properties of matter, atomic structure, the periodic table, motion, energy, forces, work, machines and electricity. A large portion of this course will consist of laboratory and demonstrations. IPC does not count as an advanced science credit on the Distinguished Plan or towards a STEM endorsement. IPC should be completed prior to Chemistry and/or Physics. TEA recommendation: For students in grade 9 or 10.

CHEMISTRY

Course Number: 8040

Placement: 10-12

Credits: 1

Prerequisite: One Credit of High School Science AND Algebra I Suggested Completion OR Concurrent Enrollment in a Second Year of Math.

This course covers the fundamental concepts of physical chemistry. This is a college preparatory class for students planning to attend a 4-year college/university. Students will be required to use higher level thinking skills and math applications to solve problems related to the properties of elements, compounds and mixtures, atomic structure, chemical bonding, chemical equations and stoichiometry. TEA recommendation: For students in grades 10, 11, or 12.

PRE-ADVANCED PLACEMENT CHEMISTRY

Course Number: 8023

Placement: 10-12

Credits: 1

Prerequisite: Biology OR Pre-AP Biology AND Algebra I Suggested Completion OR Concurrent Enrollment in a Second Year of Math

Pre-AP Chemistry is a rigorous science course that integrates advanced mathematical models to solve in depth science problems at an accelerated pace. Chemistry topics include: properties of elements, interpretation of the periodic table, acid-base concepts, naming chemical compounds, writing chemical formulas and equations, stoichiometry, thermochemistry, electrochemistry, and solution chemistry. Emphasis will be placed on the ability to evaluate, outline, organize, and report scientific information. Projects and extensive lab reports are required.

PHYSICS

Course Number: 8060

Placement: 10-12

Credits: 1

Prerequisite: Biology or Pre-AP Biology AND Algebra I

This 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 study a variety of topics that include laws of motion; changes within physical systems and conservation of energy and momentum; forces; thermodynamics; characteristics and behavior of waves; and atomic, nuclear, and quantum physics.

ADVANCED PLACEMENT CHEMISTRY

Course Number: 8073

Placement: 11-12

Credits: 1

Prerequisite: Chemistry OR Pre-AP Chemistry Completion OR Concurrent Enrollment in Algebra II

AP Chemistry is designed to be the equivalent of a first year college general chemistry course. It is a rigorous and challenging course with special emphasis on applying mathematics to problem solving and as a means of expressing and modeling scientific inquiry. The course will provide an in depth treatment of atomic structure, gas laws, thermodynamics, stoichiometry, kinetics, equilibria, oxidation-reduction and electrochemistry. This course targets the pre-professional student (i.e. engineering and health professions).

ADVANCED PLACEMENT PHYSICS I

Course Number: 8095

Placement: 11-12

Credits: 1

Prerequisite: Algebra I, Geometry, and Algebra II OR Concurrent Enrollment in Algebra II

This algebra-based course is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It will also introduce electric circuits.

ADVANCED PLACEMENT PHYSICS 2

Course Number: 8096

Placement: 11-12

Credits: 1

Prerequisite: Algebra I, Geometry, and Algebra II OR Concurrent Enrollment in Algebra II

This algebra-based course is the equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; atomic and nuclear physics.

ADVANCED PLACEMENT PHYSICS C: MECHANICS

Course Number: 8097

Placement: 11-12

Credits: 1

Prerequisite: Completion of AP Physics 1 and Concurrent enrollment in Pre-Calculus

Use a differential and integral calculus-based approach to solve problems associated with concepts such as kinematics; Newton's laws of motion, work, energy and power; systems of particles and linear momentum; circular motion and rotation; oscillations; and gravitation. Build your understanding and critical thinking skills through inquiry-based, laboratory investigations and explore these advanced physics concepts.

ADVANCED PLACEMENT PHYSICS C: ELECTRICITY and MAGNETISM

Course Number: 8098

Placement: 11-12

Credits: 1

Prerequisite: Completion of AP Physics C: Mechanics AND Concurrent enrollment in AP Calculus

Use a differential and integral calculus-based approach to solve problems associated with concepts such as electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Build your understanding and critical thinking skills through inquiry-based, laboratory investigations and explore these advanced physics concepts.

ADVANCED PLACEMENT BIOLOGY

Course Number: 8083

Placement: 11-12

Credits: 1

Preferred Prerequisite: Biology or Pre-AP Biology AND Chemistry or Pre-AP Chemistry

This course provides students with an in-depth study of biochemistry, microbiology, natural selection and genetics at an accelerated pace. This course is primarily for students who are interested in a career in medicine, biology or other related fields. Students taking this course should be highly motivated and strong in critical thinking and independent study skills. Successful completion of AP Biology should prepare students for the Advanced Placement Examination and/or the second level college biology course.

ADVANCED ANIMAL SCIENCE

Course Number: 1116CT

Placement: 11-12

Credits: 1

Prerequisite: Small Animal Management OR Livestock OR Equine Science AND Biology AND One Additional Science

This course will build on the skills learned in Animal Science. Students will learn disease management in domesticated animals including treatments such as vaccinations and medications. Emphasis in this course is placed on the interrelatedness of human, scientific, and technological dimensions of livestock productions. Note: This course can be used as 4th science credit for graduation if prerequisite requirements are met. This is an 18-week course.

TEA Recommendation: For students in grade 12.

FUNDAMENTALS OF ENVIRONMENTAL SYSTEMS

Course Number: 8420

Placement: 9-12

Credits: 1

Prerequisite: ARD Approval

This course provides a general knowledge of ecological concepts and the environmental problems that affect the world in which they live. Students will learn about technological developments, which have created environmental problems, as well as technology that is helping to solve them. This program provides one way in which students can become more aware of the interaction of people and their environment. This course encompasses a modified curriculum for Environmental Systems.

V. COURSE DESCRIPTIONS - SCIENCE

ENVIRONMENTAL SYSTEMS

Course Number: 8145

Placement: 11-12

Credits: 1

Prerequisite: Biology AND One Physical Science (IPC, Chemistry or Physics)

This course is designed to introduce students to major ecological concepts and the environmental problems that affect the world in which they live. Students will learn about technological developments, which have created environmental problems, as well as technology that is helping to solve them. This program provides one way in which students can become more aware of the interaction of people and their environment. Laboratory and fieldwork will be afforded to enhance learning.

ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE

Course Number: 8094

Placement: 11-12

Credits: 1

Prerequisite: Biology AND One Credit Physical Science (IPC, Chemistry, or Physics)

This course is designed 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. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study and includes indoor and outdoor investigations/activities.

AQUATIC SCIENCE

Course Number: 8140

Placement: 11-12

Credits: 1

Prerequisite: Biology and One Physical Science (IPC, Chemistry or Physics)

In this course, students conduct field and laboratory investigations, use scientific methods during investigations, work collaboratively and make informed decisions using critical thinking and scientific problem solving. This course focuses on the physical and biological characteristics of the earth's freshwater and marine ecosystems. Topics include the properties of water, water's effect on climate, how water shapes the earth, aquatic ecosystems, environmental issues related to freshwater systems and oceans, technology used in aquatic field studies, and organism adaptations to aquatic ecosystems. TEA Recommendation: For students in grades 11 or 12.

ASTRONOMY

Course Number: 8170

Placement: 11-12

Credits: 1

Prerequisite: Biology and One Physical Science (IPC, Chemistry or Physics)

In this course, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study the following topics: information about the universe; scientific theories of the evolution of the universe; characteristics and the life cycle of stars; exploration of the universe; role of the Sun in our solar system; planets; and the orientation and placement of the Earth. TEA Recommendation: For students in grades 11 or 12.

FUNDAMENTALS OF ASTRONOMY

Course Number: 8470

Placement: 11-12

Credits: 1

Prerequisite: One Credit of High School Science

This course provides a general knowledge of astronomy. In this course, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study the following topics: information about the universe; scientific theories of the evolution of the universe; characteristics and the life cycle of stars; exploration of the universe; role of the Sun in our solar system; planets; and the orientation and placement of the Earth. This course encompasses a modified for Astronomy. TEA Recommendation: For students in grades 11 or 12.

ANATOMY AND PHYSIOLOGY OF HUMAN SYSTEMS

Course Number: 8100/0810CT

Placement: 11-12

Credits: 1

Prerequisite: Biology AND Chemistry AND Physics OR Any Intro Level Health Science Course

Students will study the structures and functions of the human body systems. Students will do a comparative study of mammals with an in depth dissection of a mammal. Human development, maintenance of homeostasis, transport systems and energy processes will also be topics of study. As part of the laboratory investigative process, students will be active in the dissection of prepared specimens.

V. COURSE DESCRIPTIONS - SCIENCE

MEDICAL MICROBIOLOGY

Course Number: 8120CT

Placement: 10-12

Credits: 1

Prerequisite: Biology AND Chemistry AND a 3rd Science Course OR Any Intro Health Science Course

Students will study the relationships of microorganisms to wellness and disease. Students will develop knowledge and skills related to disease prevention by learning the chain of infection, asepsis, and standard precautions. Pathogenic and nonpathogenic organisms will be identified to assist in the understanding of specific diseases, causative agents, and treatment options. Students are encouraged to participate in Health Occupations Students of America (HOSA), a co-curricular youth organization. The classroom portion of this course will be taught at the Ben Barber campus.

PATHOPHYSIOLOGY

Course Number: 8125CT

Placement: 11-12

Credits: 1

Prerequisite: Biology AND Chemistry AND a 3rd Science Course OR Any Intro Health Science

Students will study disease processes, and how human systems are affected. Emphasis is placed on prevention and treatment of diseases. Students will differentiate between normal and abnormal physiology. Students are encouraged to participate in Health Occupations Students of America (HOSA), a co-curricular youth organization. The classroom portion of this course will be taught at the Ben Barber campus. This is an 18-week course.

FORENSIC SCIENCE

Course Number: 9430CT

Placement: 11-12

Prerequisite: Forensic Psychology AND Biology AND Chemistry

Credits: 1

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

PRINCIPALS OF ENGINEERING/ENGINEERING SCIENCE (PLTW)

Course Number: 1836CT

Placement: 11-12

Credit: 1

Prerequisite: Intro to Engineering AND Algebra I AND Biology AND Chemistry or IPC

This course is designed to help students understand the field of engineering/engineering technology by exploring various technology systems and manufacturing processes. The activities and projects offered through this course are designed to help students learn how engineers and technicians use math, science, and technology in an engineering problem solving process. This course allows students the opportunity to earn transcribed college credit or to articulate college credit hours upon high school graduation through participating college/university Tech Prep programs. This is a Project Lead the Way course. Note: Course can be used as an additional science credit for graduation.

(TCC) BIOLOGY

Course Number: 0940

Placement: 12

Credits: 2

Prerequisite: 80+ Overall GPA & TSI Assessment

TCC corresponding college credit: BIOL 1408 – General College Biology I (4 semester hours) BIOL 1409 – General College Biology II (4 semester hours). This is a regular college-level introductory biology course for the non-science major in which dual credit will be awarded. Students may receive up to 8 hours of college credit and one credit for each semester, successfully completed. Students will attend TCC classes on their home campus. This course meets the fourth year science high school graduation requirement. **The TSI Assessment must be taken before students will be allowed to enroll in TCC classes.**

(TCC) GEOLOGY

Course Number: 0942

Placement: 11-12

Credits: 1

Prerequisite: 80+ Overall GPA & TSI Assessment

TCC corresponding college credit: GEOL 1401 – Earth Sciences (4 semester hours). Survey of physical and historical geology, astronomy, meteorology, oceanography and related sciences. Students will attend this course at BBCTA after the traditional day ends or during the summer and are responsible for their own means of transportation. This course meets the fourth year science high school graduation requirement. **The TSI Assessment must be taken before students will be allowed to enroll in TCC classes.**

V. COURSE DESCRIPTIONS - SOCIAL STUDIES

SOCIAL STUDIES



FUNDAMENTALS OF WORLD GEOGRAPHY

Course Number: 9300

Placement: 9-12

Credits: 1

Prerequisite: ARD Approval

This course is designed to acquaint the student with the geographical make-up of the earth and the physical forces that can alter it. Geographical terminology will be defined. Physical and cultural geography will be compared. Students will explore the physical setting of the earth, the interaction of physical environments and will analyze patterns of urban growth in relationship to the geography of the area. This course encompasses a modified curriculum for World Geography.

WORLD GEOGRAPHY

Course Number: 9000

Placement: 9-12

Credits: 1

Prerequisite: None

This course is designed to acquaint the student with the geographical make-up of the earth and the physical forces that can alter it. Geographical terminology will be defined. Physical and cultural geography will be compared. Students will explore the physical setting of the earth, the interaction of physical environments and will analyze patterns of urban growth in relationship to the geography of the area.

ADVANCED PLACEMENT HUMAN GEOGRAPHY

Course Number: 9205

Placement: 9-12

Credits: 1

Prerequisite: None

AP Human Geography is equivalent to a college introductory geography course. The purpose of AP 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 who participate in AP Human Geography in their 9th grade year will develop habits of mind and skills necessary for success in future Advanced Placement courses. This course fulfills the requirement for 9th grade social studies and will count as an elective for students who already have a credit in World Geography.

FUNDAMENTALS OF WORLD HISTORY

Course Number: 9310

Placement: 9-12

Credits: 1

Prerequisite: ARD Approval

This course gives students the opportunity to trace the historical development of human cultures. It traces political, economic, and social experiences of mankind and applies them to the present for understanding and appreciating the roots, developments, and nature of American-Western civilization. The relationship of Western culture to great world problems involving international civilization will be emphasized. This course encompasses a modified curriculum for World History.

V. COURSE DESCRIPTIONS - SOCIAL STUDIES

WORLD HISTORY

Course Number: 9010

Placement: 9-12

Credits: 1

Prerequisite: None

This course gives students the opportunity to trace the historical development of human cultures. It traces political, economic, and social experiences of mankind and applies them to the present for understanding and appreciating the roots, developments, and nature of American-Western civilization. The relationship of Western culture to great world problems involving international civilization will be emphasized.

ADVANCED PLACEMENT WORLD HISTORY

Course Number: 9210

Placement: 9-12

Credits: 1

Prerequisite: None

AP World History is introductory college-level modern world history course. Students cultivate their understanding of world history with particular focus on 1200 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.

WORLD STUDIES [AP WORLD HISTORY & PRE-AP ENGLISH II]

Course Number: 2025/2026

Placement: 10

Credits: 2

Prerequisite: See Prerequisites for Pre-AP English II

World Studies provides students with the opportunity to study world history and representative literary works in a combined format that will allow the student to understand how history affects the development of literature and vice versa. This course will satisfy Pre-AP English II and AP World History credit. **Please proceed to the end of the English/Language Arts section of this guide to view the required summer reading novel selections and other pertinent information.**

ADVANCED PLACEMENT EUROPEAN HISTORY

Course Number: 9200

Placement: 11-12

Credits: 1

Prerequisite: None

AP European History is an accelerated elective course covering the history of Europe from 1450 (Renaissance) to the present. Emphasis is placed on preparing for the College Board AP exam by practicing higher level skills including: analysis, drawing conclusions, evaluating and assessing historical events using primary and secondary sources and writing at a collegiate level.

FUNDAMENTALS OF UNITED STATES HISTORY (20TH CENTURY)

Course Number: 9320

Placement: 11-12

Credits: 1

Prerequisite: ARD Approval

This course follows the history of America from 1877 to the present. Emphasis is placed on the problems experienced by an expanding American nation, the strength of her people in war and peace, the development of the United States as a world leader, and the importance of individual rights in a climate of national freedom based on government by constitutional law. These topics are presented in a skills approach to reinforce the basics of critical reading and writing. This course encompasses a modified curriculum for United States History.

UNITED STATES HISTORY (20TH CENTURY)

Course Number: 9050

Placement: 11-12

Credits: 1

Prerequisite: World History or World Geography

This course follows the history of America from 1877 to the present. Emphasis is placed on the problems experienced by an expanding American nation, the strength of her people in war and peace, the development of the United States as a world leader, and the importance of individual rights in a climate of national freedom based on government by constitutional law. These topics are presented in a skills approach to reinforce the basics of critical reading and writing.

ADVANCED PLACEMENT UNITED STATES HISTORY

Course Number: 9060

Placement: 11-12

Credits: 1

Prerequisite: World History or AP World History or World Geography or AP Human Geography

AP U.S. History is an accelerated course for the college-bound student. This course covers the history of the United States from colonization to the present. Emphasis is placed on outside reading, essay development, and research. The course is designed to help students receive college credit for U.S. History by taking the Advanced Placement test.

(TCC) UNITED STATES HISTORY

Course Number: 0972

Placement: 11

Credits: 1

Prerequisite: Successful completion of 1 History class. 80+ Overall GPA & Passing score for Reading TSI Assessment.

TCC corresponding college credit:

HIST 1301/1302 – US History to/since 1876 (3 semester hours ea.) This is a regular college-level US History course in which dual credit will be awarded for college US History and high school US History. Students may receive up to 6 hours of college credit. Students will attend TCC classes on their home campus. This course meets the high school graduation requirement.

V. COURSE DESCRIPTIONS - SOCIAL STUDIES

FUNDAMENTALS OF GOVERNMENT

Course Number: 9330

Placement: 12

Credits: ½

Prerequisite: ARD Approval This course provides the student with an understanding of the functions of the United States, Texas, and local governments. Topics include the foundations and development of the United States governmental system; the purposes, political and economic philosophies of the United States Constitution, Bill of Rights, and Declaration of Independence; the structures and functions of governments at the federal, state and local levels; and responsibilities of American citizenship. This course encompasses a modified curriculum for Government.

GOVERNMENT

Course Number: 9100

Placement: 12

Credits: ½

Prerequisite: US History

This course provides the student with an understanding of the functions of the United States, Texas, and local governments. Topics include the foundations and development of the United States governmental system; the purposes, political and economic philosophies of the United States Constitution, Bill of Rights, and Declaration of Independence; the structures and functions of governments at the federal, state and local levels; and responsibilities of American citizenship.

ADVANCED PLACEMENT GOVERNMENT

Course Number: 9110

Placement: 12

Credits: ½

Prerequisite: US History or AP US History

This course is an examination of the philosophical underpinning of our constitutional system combined with historical development and current trends. The primary focus will be on the national level. Because half of the AP American Government and Politics examination requires essay responses, writing exercises will be emphasized including book reviews, critical interpretive essays, and policy papers.

(TCC) GOVERNMENT

Course Number: 0911 FALL /0912 SPRING

Placement: 12

Credits: ½

Prerequisite: 80+ overall GPA & Passing score for Reading TSI Assessment

TCC corresponding college credit:

GOVT 2305 – Federal Government (3 semester hours)

This is a regular college-level Political Science course in which dual credit will be awarded for college Political Science and Government. The student will receive 3 hours college credit and ½ high school credit when completed successfully. Students will attend TCC classes on their home campus. This course meets the high school graduation requirement.

ADVANCED PLACEMENT COMPARATIVE GOVERNMENT AND POLITICS

Course Number: 9120

Placement 11-12

Credits: ½

Prerequisite: None

AP Comparative Government and Politics introduces students to the rich diversity of political life outside the United States. This elective course uses a comparative approach to examine the political structures; policies; and the political, economic, and social challenges among six selected countries: Great Britain, Mexico, Russia, Iran, China, and Nigeria. Additionally, students examine how different governments solve similar problems by comparing the effectiveness of approaches to many global issues.

(TCC) TEXAS GOVERNMENT

Course Number: 0914

Placement: 12

Credits: ½

Prerequisite: Passing score for TSI Assessment and a C or better in ENGL 1301

This is a regular college-level Political Science course in which dual credit will be awarded for college Texas Government. The student will receive 3 hours of college credit and ½ high school credit when completed successfully. The emphasis of this course is the origin and development of the Texas Constitution, structure and powers of state and local government, federalism and inter-governmental relations, political participation, the election process, public policy, and the political culture of Texas. Students will attend TCC classes on their home campus.

FUNDAMENTALS OF ECONOMICS

Course Number: 9330

Placement: 12

Credits: ½

Prerequisite: ARD Approval

This course is designed to familiarize the student with the factors that have influenced the growth and development of the free enterprise system. Emphasis is placed on topics such as unemployment, inflation, international trade, the interaction of business and labor and the effects of government spending and taxes. This course encompasses a modified curriculum for Economics.

ECONOMICS

Course Number: 9140

Placement: 12

Credits: ½

Prerequisite: US History

This course is designed to familiarize the student with the factors that have influenced the growth and development of the free enterprise system. Emphasis is placed on topics such as unemployment, inflation, international trade, the interaction of business and labor and the effects of government spending and taxes.

V. COURSE DESCRIPTIONS - SOCIAL STUDIES

ADVANCED PLACEMENT MACROECONOMICS

Course Number: 9150

Placement: 12

Credits: ½

Prerequisite: US History or AP US History

This AP course in macroeconomics is designed to give students a thorough understanding of the principles of economics that apply to an economic system as a whole while placing particular emphasis on the study of national income and price determination, and develop students' familiarity with economic performance measures, economic growth, and international economics.

(TCC) ECONOMICS

Course Number: 0915 FALL/0916 SPRING

Placement: 12

Credits: ½

Prerequisite: 80+ Overall GPA & Passing Score on Reading TSI Assessment (MISD requirement only)
TCC corresponding college credit: ECON 2301 – Principles of Macroeconomics (3 semester hours)

This is a regular college-level Economics course in which dual credit will be awarded for college Economics and high school Economics. The student will receive 3 hours college credit and ½ high school credit when completed successfully. Students will attend TCC classes on their home campus. This course meets the high school graduation requirement.

(TCC) MICROECONOMICS

Course Number: 0918

Placement: 12

Credits: ½

Prerequisite: ECON 2301; 80+ Overall GPA & Passing Score on Reading TSI Assessment (MISD requirement only)

TCC corresponding college credit:

ECON 2302 – Principles of Microeconomics (3 semester hours) This is a regular college-level Economics course in which dual credit will be awarded for college Economics and high school Economics with an emphasis of the behavior of individual economic agents. The student will receive 3 hours college credit and ½ high school credit when completed successfully. Students will attend TCC classes on their home campus.

ADVANCED PLACEMENT MICROECONOMICS

Course Number: 9151

Placement: 12

Credits: ½

Prerequisite: US History or AP US History

This elective course in microeconomics is designed to give students a thorough understanding of the principles of economics as they apply to individuals, household, and firms within the overall economic system. It places particular emphasis on the study of markets and market structures and seeks to develop students' familiarity with the theory of the firm, resource markets, market efficiency, and inequity, government regulation of markets.

PERSONAL FINANCIAL LITERACY

Course Number: 9190

Placement: 10-12

Credits: ½

Prerequisite: None

Personal Financial Literacy will develop citizens who have the knowledge and skills to make sound, informed financial decisions that will allow them to lead financially secure lifestyles and understand personal financial responsibility. Students will apply critical-thinking and problem-solving skills to analyze decisions involving earning and spending, saving and investing, credit and borrowing, insuring and protecting, and college and post-secondary education and training.

PSYCHOLOGY

Course Number: 9170

Placement: 11-12

Credits: ½

Prerequisite: None

This course provides an introduction to the various fields of psychology. Human Growth, development, and behavior are studied in order to understand personality theories and disorders. Other topics include abnormal psychology, group behavior, human interaction, therapy, and altered states of consciousness such as hypnosis, hallucinations, sleep and dreams.

ADVANCED PLACEMENT PSYCHOLOGY

Course Number: 9173

Placement: 11-12

Credits: ½

Prerequisite: None

This is a college level course that incorporates an understanding of psychology, the scientific study of human behavior and the mental process. Topics that will be introduced will include memory and thought, body and behavior, sleep and dreams, motivation and emotion, personality and individuality, life span, stress and health, human relationships, psychological research, careers and statistics in psychology and therapy.

(TCC) PSYCHOLOGY

Course Number: 0970

Placement: 11-12

Credits: ½

Prerequisite: 80+ overall GPA & Passing Score on Reading TSI Assessment

TCC corresponding college credit:

PSYC 2301 – Introduction to Psychology (3 semester hours). This is a regular college-level Psychology course in which dual credit will be awarded for college Psychology and high school Psychology. The student will receive 3 hours college credit and ½ high school credit when completed successfully. Students will attend TCC classes on their home campus.

V. COURSE DESCRIPTIONS - SOCIAL STUDIES

SOCIOLOGY

Course Number: 9180

Placement: 11-12

Credits: ½

Prerequisite: None

This course provides an introduction to various fields of sociology. Culture, ethnic and racial groups, gender differences and group dynamics are studied in order to understand socialization. Other topics include crime and deviance, nature versus nurture, and teen problems such as drug and alcohol abuse and other social problems.

(TCC) SOCIOLOGY

Course Number: 0980

Placement: 11-12

Credits: ½

Prerequisite: 80+ overall GPA & TSI Assessment

TCC corresponding college credit: SOCI 1301 – Introduction to Sociology (3 semester hours)

This is a regular college-level Sociology course in which dual credit will be awarded for college Sociology and high school Sociology. The student will receive 3 hours college credit and ½ high school credit when completed successfully. Students will attend TCC classes on their home campus. **The reading TSI Assessment must be passed before students will be allowed to enroll in TCC classes.**

SPECIAL TOPICS IN SOCIAL STUDIES: WOMEN IN AMERICAN HISTORY

Course Number: 9185

Placement 11-12

Credits: ½

Prerequisite: None

What role did women play in key events in American history? What were women's lives like before the arrival of European settlers, during the colonial period, during the 19th century? How are women portrayed in the media? In this course, students enhance their knowledge of women's roles throughout American history and explore how primary sources reveal and conceal women's history.

SPECIAL TOPICS IN SOCIAL STUDIES: AFRICAN AMERICAN HISTORY

Course Number: 9187

Placement 11-12

Credits: ½

Prerequisite: None

This elective course provides an opportunity to explore African American history from 1600 to the present. Students will gain a greater understanding of African-American cultural identity. The historical background, customs, art, drama, music, folklore, and other contributions of African-Americans to the American way of life are emphasized.

SPECIAL TOPICS IN SS: HEBREW SCRIPTURES (Old Testament) AND NEW TESTAMENT

Course Number 9186

Placement 11-12

Credits: ½

Prerequisite: World History

This elective course focuses on the content, history, literary style, and structure of the Hebrew Scriptures (Old Testament) and New Testament. Students will use primary and secondary source materials, technology, and critical thinking skills.

ACADEMIC DECATHLON TEAM

Course Number(s): 2340

Placement: 10-12

Credits: 1

Prerequisite: Student Application

Students will participate on the competitive Academic Decathlon team. First year students are awarded credit in Special Topics in Advanced Studies. Second year students are awarded .5 credit in Special Topics in Social Studies. This course may **not** be used to fulfill any of the English requirements for graduation.

V. COURSE DESCRIPTIONS - SPECIAL PROGRAMS

SPECIAL PROGRAMS



AVID I (Advancement Via Individual Determination I)

Course Number: 1010

Placement: 9

Credits: 1

Prerequisite: Identified as an AVID student through application and interview process

The AVID elective class prepares students in the academic middle for college readiness and success. Students receive instruction in writing, inquiry, collaboration, organization and reading strategies. Student empowerment, leadership, college preparedness, and career knowledge are developed to support post-secondary readiness. This 9th grade class includes tutor-facilitated study groups to support student success in all courses and emphasizes analytical writing and personal goals. AVID students must enroll in at least one Pre-AP course in addition to the AVID elective class. Students visit a college/university during the school year.

AVID II (Advancement Via Individual Determination II)

Course Number: 1015

Placement: 10

Credits: 1

Prerequisite: AVID I or identification as an AVID student through application and interview process

The AVID elective class prepares students in the academic middle for college readiness and success. Students receive instruction in writing, inquiry, collaboration, organization and reading strategies. Student empowerment, leadership, college preparedness, and career knowledge are developed to support post-secondary readiness. This 10th grade class includes tutor-facilitated study groups to support student success in all courses and emphasizes text analysis and preparation for college entrance exams. AVID students must enroll in a Pre-AP or AP course in addition to the AVID elective class. Students visit a college/university during the school year.

V. COURSE DESCRIPTIONS - SPECIAL PROGRAMS

AVID III (Advancement Via Individual Determination III)

Course Number: 1020

Placement: 11

Credits: 1

Prerequisite: AVID II

The AVID elective class prepares students in the academic middle for college readiness and success. Students receive instruction in writing, inquiry, collaboration, organization and reading strategies. Student empowerment, leadership, college preparedness, and career knowledge are developed to support post-secondary readiness. This 11th grade course includes tutor-facilitated study groups to support student success in all classes and is the first part in a junior/senior seminar course focused on writing, critical thinking, college application processes, and post-secondary plans. AVID students must enroll in a Pre-AP, AP, or dual enrollment course in addition to the AVID elective class.

AVID IV (Advancement Via Individual Determination IV)

Course Number: 1025

Placement: 12

Credits: 1

Prerequisite: AVID III

The AVID elective class prepares students in the academic middle for college readiness and success. Students receive instruction in writing, inquiry, collaboration, organization and reading strategies. Student empowerment, leadership, college preparedness, and career knowledge are developed to support post-secondary military-readiness. This 12th grade course includes tutor-facilitated study groups to support student success in all classes and is the second part in a junior/senior seminar course that includes research and assists students with the college entrance process. AVID students must enroll in a Pre-AP, AP, or dual enrollment course in addition to the AVID elective class.

COMMUNITY SERVICE

Course Number: 9710

Placement: 11-12

Credits: ½

Prerequisite: Student Application

The Community Service Program is designed to help students increase their awareness of how communities operate by participating in the activities of a community under the guidance of mentors who are actively involved in some area of the community. Students will learn the importance of becoming more responsible citizens while some facet of the community becomes the classroom for one class block where the student learns how to help meet community needs. The course is full of opportunities for critical thinking, development of speaking skills and written analysis about the student's area of the community. The student must have a valid Texas driver's license and transportation to and from the community service assignment.

JUNIOR ROTC I, II, III, IV

Course Number: 9601, 9603, 9605, 9607

Placement: 9-12

Credits: 1 credit per course

Prerequisite: Student Application

JROTC is a class sponsored by the military services that does not recruit students for the military; rather it emphasizes leadership training, selfless service, citizenship, responsibility, and respect. Students may enter this class at any grade level. Students will have opportunities to compete in activities such as Color Guard, Drill Team, Academics, Orienteering, Physical Fitness, and many others. Uniforms are issued at no cost to the student and are worn one day per week. JROTC is a PE_substitution. Benefits include:

- Up to 12 college credit hours through regionally accredited partner colleges
- College scholarship opportunities
- The ability to earn nationally recognized awards and decorations
- Increased responsibility based upon performance
- No service obligation, but offers accelerated rank for those who successfully complete two years and choose to enter military service

JUNIOR AIR FORCE ROTC I, II, III, IV

Course Number: 9601, 9603, 9605, 9607

Placement: 9-12

Credits: 1 credit per course

Prerequisite: None

This course is comprised of Aerospace Science, Leadership Education and Wellness. Students will focus on aviation history, the science of flight, the exploration of space, and different world cultures. Leadership education begins with the Air Force Junior Reserve Officer Training Corps (AFJROTC) program for first-year students. All cadets receive communication and leadership skills, self-awareness, discipline training, community involvement and service throughout the program. Selected senior level cadets will study and participate in the management of the cadet corps. Drill and Ceremonies fundamentals and in-depth instruction in Air Force drill and ceremonies are included along with lessons on the Air Force's organizational structure. The wellness portion is based on the Presidential Fitness program and is focused upon individual base-line improvements with the goal of achieving a national standard as calculated with age and gender. **This course is available to Timberview High School students, only.** Subject matter (approved through the Air Force), such as survival training, and "Unlocking Your Potential," may be added, substituted or augment the lessons above. Benefits include:

- Up to 12 college credit hours through regionally accredited partner colleges
- College scholarship opportunities
- The ability to earn nationally recognized awards and decorations
- Increased responsibility based upon performance
- No service obligation, but offers accelerated rank for those who successfully complete two years and choose to enter military service

V. COURSE DESCRIPTIONS - SPECIAL PROGRAMS

OFFICE ASSISTANT

Course Number: 9740

Placement: 12

Credits: ½ -1 (Local)

Prerequisite: Student Application

Students in this course will be assigned to an office or a library as an aide. Students receive experience in general office administration.

STUDENT GOVERNMENT AND LEADERSHIP

Course Number: 9730

Placement: 9 -12

Credits: 1

Prerequisite: Student Application

Students will develop leadership skills to function effectively as team members, responsible citizens, entrepreneurs, and productive workers in a global society. Topics will include: meeting skills, self-esteem, communication, goal setting, time task management, action planning, and conflict resolution. Active participation in Student Council is required. Students will be required to attend and participate in off-campus, after school/weekend events. This course is designed for those who are currently student leaders who are planning to be in a leadership position after high school.

TEEN LEADERSHIP I

Course Number: 9700

Placement: 9-12

Credits: ½

Prerequisite: None

Students will learn leadership skills, personal responsibility, emotional intelligence, conflict resolution/peer mediation, public speaking, principle-based decision making, social skills, choices have consequences, preparation for school-to-work transition, and goal setting.

TEEN LEADERSHIP II

Course Number: 9705

Placement: 11-12

Credit: 1 (Local)

Prerequisite: Teen Leadership I

Teen Leadership II is a program offered to upper level students who have successfully completed Teen Leadership I. Students will apply the lessons while mentoring at-risk elementary students, participating in community service, and opportunities to meet and discuss with civic and community leaders about future prospects for leadership.

INDEPENDENT STUDY MENTORSHIP PROGRAM

Course Number: 9800

Placement: 11-12

Credits: 1 (Local)

Prerequisite: Student Application & Interview

This course provides students an opportunity to gain an academic experience outside of the classroom through field work and research with a professional mentor in the student's field of study. Students will be able to pursue individual areas of interest, gain valuable real world communication skills, and create an innovative product that is of professional quality.

VI.

BBIA

Ben Barber Innovation Academy



2020 - 2021 High School
Career & Technical Education Courses

BUILD A BETTER FUTURE





Business & Industry Endorsement
**Agriculture, Food, and Natural
 Resources**

Animal Science

Levels	Courses		
Level 1	Principles of Agriculture, Food & Natural Resources 1101CT / 9-12		
Level 2	Small Animal Management AND Equine Science 1114CT & 1113CT / 9-12 <i>Courses must be taken together</i>		
Level 3	Livestock Production 1115CT / 10-12		
Level 4	Advanced Animal Science 1116CT / 11-12 <i>Prerequisite: Biology, Chemistry or IPC, Geometry, AND Small Animal/Equine Science or Livestock Production Science Credit</i>	Veterinary Medical Applications 1140CT / 11-12 <i>Prerequisite: Small Animal/Equine Science or Livestock Production</i>	Practicum in Agriculture, Food & Natural Resources 1135CA-CB / 11-12

Applied Agricultural Engineering

Levels	Courses	Supporting Courses
Level 1	Principles of Agriculture, Food & Natural Resources 1101CT / 9-12	
Level 2	Agricultural Mechanics & Metal Technologies 1122CT / 10-12 <i>OSHA Certification Possible</i>	
Level 3	Agricultural Structures Design & Fabrication 1123CT / 11-12 <i>Prerequisite: Agricultural Mechanics & Metal Technologies</i>	
Level 4	Practicum in Agriculture, Food & Natural Resources 1135CA-CB / 11-12	

Environmental & Natural Resources

Levels	Courses	Supporting Courses
Level 1	Principles of Agriculture, Food & Natural Resources 1101CT / 9-12	
Level 2	Wildlife, Fisheries & Ecology Management 1103CT / 9-12 <i>TPW Hunter Safety Certification Possible</i>	
Level 3	Forestry & Woodland Ecology Systems 1120CT / 10-12	
Level 4	Practicum in Agriculture, Food & Natural Resources 1135CA-CB / 11-12	

Plant Science

Levels	Courses	Supporting Courses
Level 1	Principles of Agriculture, Food & Natural Resources 1101CT / 9-12	
Level 2	Horticulture Science 1109CT / 10-12 <i>Commercial/Noncommercial Pesticide Application Certification Possible</i>	
Level 3	Floral Design	

	1110CT / 9-12 Fine Arts Credit <i>Texas State Floral Association Floral Skills Knowledge Based Certification Possible</i>		
Level 4	Advanced Floral Design 1124CT / 11-12 <i>Prerequisite: Floral Design</i>	Practicum in Agriculture, Food & Natural Resources 1135CA-CB / 11-12	
1 Semester Home Campus	2 Semester Home Campus	1 Semester Ben Barber	2 Semester Ben Barber
College Course Weighted Credit			
<i>The district will pay 100% of the cost of the certification test if students can show mastery by passing a certification practice test AND maintain an 80+ overall course grade at the time of the certification test. If students don't meet the requirements above, they must pay 100% of the cost of the certification test.</i>			
To earn an endorsement, an MISD student must complete a coherent sequence for 4 or more credits that consist of 2 courses in the same program of study including at least 1 advanced CTE course			

Level I Courses

PRINCIPLES OF AGRICULTURE, FOOD & NATURAL RESOURCES
Prerequisite: Strongly recommended as 1st course in Agriculture
Course: 1101CT **Credit:** 1

Placement: 9-12
Length: 18 weeks

This class will give students an opportunity to explore the various areas of agriculture as they discover how agriculture impacts their lives on a daily basis. The foundation for truly understanding all that agriculture encompasses is laid in this class and additionally students are introduced to important life skills including record keeping, leadership and meeting room procedures. Students must keep an online record of skills and knowledge about agriculture through an agricultural experience or SAE that acts as an addition of the class to extend student learning.

Level II Courses

SMALL ANIMAL MANAGEMENT/EQUINE SCIENCE
Course: 1114CT & 1113CT **Credits:** 1

Placement: 9-12
Length: 18 weeks

Small Animal Management is a course that educates and encourages responsible pet ownership. This course prepares students for potential careers related to small animal care, including but not limited to: veterinarians, veterinarian technicians, animal caretakers, pet breeders and owners, groomers, boarders, etc. This course is designed to be hands-on and includes people/animal interactions. Students will learn about careers related to the field and receive practical training in tasks applicable to any pet owner. Suggested small animals which may be included in the course of study include, but are not limited to, small mammals, amphibians, reptiles, avian, dogs and cats. Equine Science is an entry level animal science course that covers topics related to the equine industry. Topics include: anatomy, reproduction, careers, nutrition, grooming, selection, tack and trailer safety. **These courses must be taken together.**

AGRICULTURAL MECHANICS & METAL TECHNOLOGIES
Course: 1122CT **Credits:** 1

Placement: 10-12
Length: 18 weeks

Students enrolled in this course will be exposed to careers in agricultural power, structural and technical systems. This course is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete and metal working techniques.

Possible Certification: OSHA 10 hours*

WILDLIFE, FISHERIES & ECOLOGY MANAGEMENT
Course: 1103CT **Credits:** 1

Placement: 9-12
Length: 18 weeks

Students will be prepared for careers in natural resource systems. Students need to attain academic skills and knowledge, acquire technical knowledge in skills related to natural resources, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. This course examines the management of gain and non-gain wildlife species, fish, and aqua crops and their ecological needs as related to current agriculture practices.

Certification Possible: Texas Parks & Wildlife Hunter Safety*

HORTICULTURE SCIENCE
Course: 1109CT **Credits:** 1

Placement: 10-12
Length: 18 weeks

To be prepared for careers in horticultural systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to horticulture and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements and industry expectations. This course is designed to develop an understanding of common horticultural management practices as they relate to food and ornamental plant production.

Certification Possible: Commercial/Noncommercial Pesticide Application*

Level III Courses

LIVESTOCK PRODUCTION

Course: 1115CT

Credits: 1

Placement: 10-12

Length: 18 weeks

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

Certification Possible: Texas Beef Quality Assurance AND Principles of Livestock Selection & Evaluation*

AGRICULTURAL STRUCTURES DESIGN & FABRICATION

Prerequisite: Agricultural Mechanics

Course: 1123CT

Credits: 1

Placement: 11-12

Length: 18 weeks

This course 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.

FORESTRY & WOODLAND ECOSYSTEMS

Course: 1120CT

Credits: 1

Placement: 10-12

Length: 18 weeks

This course examines current management practices for forestry and woodlands. Special emphasis is given to management as it relates to ecological requirements and how these practices impact the environment. Includes exploration of careers associated with the forestry system, tree identification, calculating tree harvest and a study of the forest ecosystem.

FLORAL DESIGN

Course: 1110CT

Credits: 1

Placement: 9-12

Length: 18 weeks

Floral Design is a fun, hands-on course where students create beautiful, artistic designs using flowers. Students will learn the elements and principles of design and the basics of business involved in running a flower shop and other floral related industries.

This course can be used as a Fine Arts Credit.

Certification Possible: Texas State Floral Association Floral Skills Knowledge Based*

Level IV Courses

ADVANCED ANIMAL SCIENCE

Prerequisite: Biology, Chemistry & IPC, Geometry AND Small Animal/Equine Science OR Livestock Production

Course: 1116CT

Credits: 1

Placement: 11-12

Length: 18 weeks

This course will build on the skills learned in Animal Science. Students will learn disease management in domesticated animals including treatments such as vaccinations and medications. Emphasis in this course is placed on the inter relatedness of human, scientific and technological dimensions of livestock production. Students interested in Veterinary Technician, Veterinarian Medicine or Agriculture Science Education as a career should take this class. **Note: Course can be used as an additional science credit for graduation.**

VETERINARY MEDICAL APPLICATIONS

Prerequisite: Small Animal/Equine Science OR Livestock Production

Course: 1140CT

Credits: 1

Placement: 11-12

Length: 18 weeks

For careers in the field of animal science, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to animal systems and the work place, and develop knowledge and skills regarding career opportunities, entry requirements and industry expectations. Topics covered in this course include, but are not limited to, veterinary practices as they relate to both large and small animal species.

PRACTICUM IN AGRICULTURE, FOOD & NATURAL RESOURCES

Course: 1135CA/CB

Credits: 2

Placement: 11-12

Length: 36 weeks

The practicum is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships or laboratories. **If a student does not have transportation, opportunities will be limited.**

ADVANCE FLORAL DESIGN
Course: 1124CT

Credits: 1

Placement: 11-12
Length: 18 weeks

In this course, students build on the knowledge from the Floral Design course and are introduced to more advanced floral design concepts, with an emphasis on specialty designs and specific occasion planning. This course focuses on building skills in advanced floral design and providing students with a thorough understanding of the design elements and planning techniques used to produce unique specialty floral designs that support the goals and objectives of a specific occasion or event. Through the analysis and evaluation of various occasion and event types, students explore the design needs and expectations of clients and propose and evaluate appropriate creations. From conception to evaluation, students are challenged to create and design appropriate specialty floral designs that meet the needs of the client. Furthermore, an emphasis on budgetary adherence and entrepreneurship equips students with many of the necessary skills needed for success in floral enterprises.

Notes on agriculture science and technology courses:

The State Board of Education course requirements include a Supervised Agriculture Experience project for all courses. The Supervised Agriculture Experiences (SAE) must relate directly to the course in which the student is enrolled or has completed. The program will continue to be as flexible as possible in regards to SAE projects. Students enrolled in any and all Agricultural Science courses are provided the opportunity for membership in the FFA, the nation's largest youth leadership organization. Students are expected to meet membership requirements. Financial assistance is available to students who possess such need. FFA is an integral part of the curriculum of Agriculture, Food, and Natural Resources.

***Students must successfully pass certification test(s) in order to receive the certification.**



Business & Industry Endorsement
Architecture & Construction

Architectural Design

Levels	Courses	Supporting Courses
Level 1	Principles of Architecture 1819CT / 9-12	
Level 2	Architectural Design I 1660CT / 10-12 <i>Prerequisite: Principles of Architecture AND English I AND Algebra I</i>	Interior Design 1512A/B / 10-12 <i>Prerequisite: Algebra I AND English I</i>
Level 3	Architectural Design II 1665CA/CB / 11-12 <i>Prerequisite: Architectural Design I AND Geometry Autodesk Certified User in AutoCAD Certification Possible</i>	
Level 4	Practicum in Architectural Design 1668CA/CB / 12 <i>Prerequisite: Architectural Design II</i>	

Construction Technology

Levels	Courses	Supporting Courses
Level 1	Principles of Construction 1824CT / 9-12 <i>NCCER Core Certification Possible</i>	Principles of Architecture 1819CT / 9-12
Level 2	Construction Technology I 1820CA/CB / 10-12 <i>Prerequisite: Principles of Construction Local Certification Possible</i>	TCC CNBT 1300 Residential & Light Commercial Blue Print Reading 0194 / 10-12 <i>Prerequisite: No TSI Requirement</i>
		TCC CNBT 1316 Construction Technology I 0195 / 10-12 <i>Prerequisite: No TSI Requirement</i>
Level 3	Construction Technology II 1825CA/CB / 11-12 <i>Prerequisite: Construction Technology I OSHA 10 Hour AND NCCER Construction Tech Certification Possible</i>	TCC CNBT 1110 Basic Construction Safety 0198 / 11-12 <i>Prerequisite: No TSI Requirement</i>
		TCC CNBT 1350 Construction Technology II 0199 / 11-12 <i>Prerequisite: No TSI Requirement</i>
Level 4	Practicum in Construction Technology 1827CA/CB / 12 <i>Prerequisite: Construction Technology II</i>	Upon completion of all 4 TCC CNBT courses, students will earn a Residential/Commercial Site Layout & Frammer Assistant Occupational Skills Award from TCC

HVAC & Sheet Metal

Levels	Courses	Supporting Courses
Level 1	Principles of Construction 1824CT / 9-12 <i>NCCER Core Certification Possible</i>	
Level 2	Heating, Ventilation & Air Conditioning & Refrigeration I 1803CT / 10-12 <i>Prerequisite: Principles of Construction Refrigerant Handling Certification Possible</i>	
Level 3	Heating, Ventilation & Air Conditioning & Refrigeration II 1804CA/CB / 11-12	

	<i>Prerequisite: HVAC I</i> <i>NCCER HVAC, Level I Certification Possible</i>			
Level 4	Practicum in Construction Technology 1827CA/CB / 12 <i>Prerequisite: HVAC II</i>			
1 Semester Home Campus	2 Semester Home Campus	1 Semester Ben Barber	2 Semester Ben Barber	College Course Weighted Credit
<i>The district will pay 100% of the cost of the certification test if students can show mastery by passing a certification practice test AND maintain an 80+ overall course grade at the time of the certification test. If students don't meet the requirements above, they must pay 100% of the cost of the certification test.</i>				
To earn an endorsement, an MISD student must complete a coherent sequence for 4 or more credits that consist of 2 courses in the same program of study including at least 1 advanced CTE course				

Level I

PRINCIPLES OF ARCHITECTURE
Course: 1819CT

Credits: 1

Placement: 9-12
Length: 18 weeks

Principles of Architecture provides an overview to the various fields of architecture, interior design, and construction management. Classroom studies include topics such as safety, work ethics, communication, information technology applications, systems, health, environment, leadership, teamwork, ethical and legal responsibility, employability, and career development and include skills such as problem solving, critical thinking, and reading technical drawings.

PRINCIPLES OF CONSTRUCTION
Course: 1824CT

Credits: 1

Placement: 9-12
Length: 18 weeks

Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

Possible Certification: NCCER Core*

Level II

ARCHITECTURAL DESIGN I

Prerequisite: Principles of Architecture AND English I AND Algebra I
Course: 1660CT

Credit: 1

Placement: 10-12
Length: 18 weeks

Architectural Design is an activity/project based technical course for students interested in architecture, interior design, construction, making use of measurements, perspectives and drawings. Students will study multiple activities and problem-solving using AutoCAD, CorelDraw, Word, Excel, Adobe, the Digital Camera, Laser, CNC Lathe. Additionally, students will study basic board drawing instruments, modeling, lettering and multiple drawing styles.

CONSTRUCTION TECHNOLOGY I
Prerequisite: Principles of Construction
Course: 1820CA/CB

Credits: 2

Placement: 10-12
Length: 36 weeks

Students gain knowledge and skills specific to those needed to enter the work force or build a foundation toward a postsecondary degree or certification in the career pathway of construction science, architecture or engineering. Students acquire knowledge and skills in safety, tool usage, building materials, codes and basic framing. Various models and projects will be designed and built throughout the semester. Communication and employability skills along with options for continuing education will be provided throughout the semester. Opportunities for industry-related certification modules are part of this curriculum.

★ Students can earn a Certificate of Excellence by achieving a specific list of real world skills related to this course. For the list of skills, please visit goo.gl/9VM3a9

TCC CNBT 1300 Residential & Light Commercial Blue Print Reading & TCC CNBT 1316 Construction Technology I can be taken concurrently with this class. There is no TSI requirement, but students must register and pay tuition by TCC deadline.

HEATING, VENTILATION & AIR CONDITIONING & REFRIGERATION I
Prerequisite: Principles of Construction
Course: 1803CT

Credit: 1

Placement: 10-12
Length: 18 weeks

In this course students will gain knowledge and skills needed to enter the industry as technicians in the HVAC and refrigeration industry or building maintenance industry, prepare for a postsecondary degree in a specified field of construction management, or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, principles of HVAC theory, use of tools, codes, and installation of HVAC and refrigeration equipment.

Possible Certification: Refrigerant Handling*

Level III

ARCHITECTURAL DESIGN II

Prerequisite: Architectural Design I AND Geometry

Course: 1665CA/CB

Credits: 2

Placement: 11-12

Length: 36 weeks

In Advanced Architectural Design, students gain advanced knowledge and skills specific to those needed to enter a career in architecture and construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design or landscape architecture. Advanced Architectural design includes the advanced knowledge of the design, design history, techniques and tools related to the production of drawings, renderings and scaled models for commercial or residential architectural purposes

Possible Certification: Autodesk Certified User in AutoCAD*

CONSTRUCTION TECHNOLOGY II

Prerequisite: Construction Technology I

Course: 1825CA/CB

Credits: 2

Placement: 11-12

Length: 36 weeks

As a continuation of Construction Technology I, this course is an activity/project based technical course for students interested in continuing their construction or architecture career pathway. Students gain advanced knowledge and skills specific to those needed to enter the work force as carpenters or prepare for a postsecondary degree in construction science, architecture or engineering. Beginning with wall framing, students will develop skills in sequential building trades - plumbing, residential wiring and masonry. Students are introduced to exterior and interior finish-out skills. Communication and employability skills along with options for continuing education will be provided throughout the year.

Possible Certification: NCCER Construction Tech*

Possible Certification: OSHA 10 Hour*

TCC CNBT 1110 Basic Construction Safety & TCC CNBT 1350 Construction Technology II can be taken concurrently with this class. There is no TSI requirement, but students must register and pay tuition by TCC deadline.

HEATING, VENTILATION & AIR CONDITIONING & REFRIGERATION II

Prerequisite: Principles of Construction

Course: 1804CA/CB

Credit: 2

Placement: 11-12

Length: 36 weeks

In this course students will gain advanced knowledge and skills needed to enter the industry as HVAC and refrigeration technicians or building maintenance technicians or supervisors, prepare for a postsecondary degree in a specified field of construction or construction management, or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, use of tools, codes, installation of commercial HVAC equipment, heat pumps, troubleshooting techniques, various duct systems, and maintenance practices.

Possible Certification: NCCER HVAC Level I*

Level IV

PRACTICUM IN ARCHITECTURAL DESIGN

Prerequisite: Architectural Design II

Course: 1668CA/CB

Credits: 2

Placement: 12

Length: 36 weeks

Practicum in Architectural Design is an occupation specific course designed to provide technical instruction in architectural design. Safety and career opportunities are included in addition to work ethics and architectural design study. Students will maintain a project portfolio that documents experience by using graphic or written documentation of architectural-related projects and a professional resumé that should include select educational and work history, professional references, appropriate letters of recommendation, record of work experiences, licenses, and certifications; and completion of education and training. **If a student does not have transportation, opportunities will be limited.**

PRACTICUM IN CONSTRUCTION TECHNOLOGY

Prerequisite: Construction Technology II

Course: 1827CA/CB

Credits: 2

Placement: 12

Length: 36 weeks

This course is an internship and project-based technical course in best practices of construction and project management. This class includes design techniques and tools related to the management of architectural, engineering and construction projects. Students will establish their internship with an industry partner in a related field of study. Students must provide their own

transportation to the internship. All internships will document the student's progress and participation as a significant part of the grade for this course. Students must also identify, design and successfully manage project specific criteria and present their final product to a panel of industry advisors. Career plans, employment opportunities and options for continuing education will be part of ongoing discussion. Industry-related certification modules from previous courses are eligible for completion. **If a student does not have transportation, opportunities will be limited.**

Supporting Courses

INTERIOR DESIGN (Home Campus Only)

Prerequisite: Algebra I AND English I

Course: 1512A/B

Credits: 1

Placement: 10-12

Length: 36 weeks

Interior Design is an activity/project based technical course for students interested in architecture, interior design, construction, making use of measurements, perspectives and drawings. Students will study multiple activities and problem solve using AutoCAD, CorelDraw, Word, Excel, Adobe and digital cameras. Additionally, students will study basic board drawing instruments, modeling, lettering and multiple drawing styles.

TCC CNBT 1300 RESIDENTIAL & LIGHT COMMERCIAL BLUE PRINT READING

Prerequisite: Principles of Construction

Course: 0194

Credits: 1

Placement: 10-12

Length: 18 weeks

This course includes introductory blueprint reading for residential and light commercial construction. Course offered at Ben Barber and is taught concurrently with Construction Technology I (1820CA).

TCC CNBT 1316 CONSTRUCTION TECHNOLOGY I

Prerequisite: Principles of Construction

Course: 0195

Credits: 1

Placement: 10-12

Length: 18 weeks

This course is an introduction to site preparation foundations, form work, safety, tools and equipment. Course offered at Ben Barber and is taught concurrently with Construction Technology I (1820CB).

TCC CNBT 1110 BASIC CONSTRUCTION SAFETY

Prerequisite: Construction Technology I

Course: 0198

Credits: 1

Placement: 11-12

Length: 18 weeks

This course is basic job site construction safety in residential, commercial, and industrial construction. Course offered at Ben Barber and is taught concurrently with Construction Technology II (1825CA).

TCC CNBT 1350 CONSTRUCTION TECHNOLOGY II

Prerequisite: Construction Technology I

Course: 0199

Credits: 1

Placement: 11-12

Length: 18 weeks

This course is framing in residential and light commercial construction. Includes safety, tools, and equipment used in floor, wall, ceiling, and roof framing methods and systems. Course offered at Ben Barber and is taught concurrently with Construction Technology II (1825CB).

Upon completion of all 4 TCC CNBT courses, students will earn a Residential/Commercial Site Layout & Framing Assistant Occupational Skills Award from TCC.

 Weighted Credit

***Students must successfully pass certification test(s) in order to receive the certification.**



Business & Industry Endorsement
**Arts, Audio Video Technology &
 Communications**

Design & Multimedia Arts

Levels	Courses					Supporting Courses
Level 1	Principles of Arts, A/V Technology & Communications 1890CT / 9-12					Digital Media 1280CT 9-12
Level 2	Graphic Design I 1891CA-CB 10-12	Animation I 1897CA-CB 10-12	Commercial Photography I 1889CA-CB 10-12	Video Game Design 1269CT 9-12	Fashion Design I 1511A-B 10-12	
	<i>Adobe Photoshop Certification Possible</i>					
Level 3	Graphic Design II 1893CA-CB 10-12 <i>Prerequisite: Graphic Design I Adobe Illustrator Certification Possible</i>	Digital Art & Animation 1053BB / 10-12 <i>Prerequisite: Animation I</i>	Commercial Photography II 1888CA-CB 10-12 <i>Prerequisite: Commercial I Local Certification Possible</i>	Video Game Programming 1273CT 10-12 <i>Prerequisite: Video Game Design</i>	Fashion Design II 1516A-B 10-12 <i>Prerequisite: Fashion Design I</i>	Fashion Marketing AND Advertising 1515CT AND 1711CT 10-12 <i>Courses must be taken together</i>
		3D Modeling & Animation 1054BB / 10-12 <i>Prerequisite: Animation I Adobe Animate Certification Possible</i>				
Level 4	Practicum in Graphic Design 1899CA-CB 11-12 <i>Prerequisite: Graphic Design II Adobe InDesign Certification Possible</i>	Practicum in Animation 1898CA-CB 11-12 <i>Prerequisite: Digital Art & Animation OR 3D Modeling & Animation</i>	Practicum in Commercial Photography 1884CA-CB 11-12 <i>Prerequisite: Commercial Photography II</i>	Advanced Video Game Programming 1274CT / 10-12 <i>Prerequisite: Video Game Programming Local Certification Possible</i>		

Digital Communications

Levels	Courses		
Level 1	Principles of Arts, A/V Technology & Communications 1890CT / 9-12		Professional Communications 2246 / 9-12
Level 2	Audio/Video Production I 1869CT / 9-12	Digital Audio Technology I 1880CT / 9-12	
Level 3	Audio/Video Production II 1871CA-CB / 10-12 <i>Prerequisite: A/V Production I Adobe Premiere Certification Possible</i>	Digital Audio Technology II 1885CT / 10-12 <i>Prerequisite: Digital Audio Technology I Local Certification Possible</i>	
Level 4	Practicum in Audio/Video Production 1873CA-CB / 11-12 <i>Prerequisite: Audio/Video Production II</i>	Practicum in Audio Technology 1887CA-CB / 11-12 <i>Prerequisite: Digital Audio Technology II</i>	
	TV Studio Production 1875CA-CB / 11-12	Sports Broadcasting Practicum 1877CA-CB / 11-12	

	<i>Prerequisite: Audio/Video Production II</i>	<i>Prerequisite: Digital Audio Technology II</i>	
1 Semester Home Campus	2 Semester Home Campus	1 Semester Ben Barber	2 Semester Ben Barber
College Course Weighted Credit			
<i>The district will pay 100% of the cost of the certification test if students can show mastery by passing a certification practice test AND maintain an 80+ overall course grade at the time of the certification test. If students don't meet the requirements above, they must pay 100% of the cost of the certification test.</i>			
To earn an endorsement, an MISD student must complete a coherent sequence for 4 or more credits that consist of 2 courses in the same program of study including at least 1 advanced CTE course			
Level I			
PRINCIPLES OF ARTS, AUDIO/VIDEO TECHNOLOGY & COMMUNICATIONS Course: 1890CT			Placement: 9-12 Length: 18 weeks
Credits: 1			
This course will introduce students to careers in Design & Multimedia Arts and Digital Communication. Students will develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills and educational requirements for those careers.			
PROFESSIONAL COMMUNICATIONS (Home Campus Only) Course: 2246			Placement: 9-12 Length: 18 weeks
Credits: 0.5			
Professional Communications blends written, oral, and graphic communication in a career-based environment. Careers in global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research.			
Level II			
GRAPHIC DESIGN & ILLUSTRATION I Course: 1891CA/CB			Placement: 10-12 Length: 36 weeks
Credits: 2			
This class will give students an opportunity to express and design creative ideas visually for a growing field. Commercial art concepts and design strategies will be explored using design principles and art elements for creating ads, logos, newsletters, magazine covers, illustrations and more. Students will learn to create and design artwork for projects using Adobe software. A final DVD with student artwork will be created for a digital portfolio. Possible Certification: Adobe Photoshop*			
ANIMATION I Course: 1897CA/CB			Placement: 10-12 Length: 36 weeks
Credits: 2			
This course is for the creative student wanting to explore computer animation. Animation is a growing art form fulfilling a need in multiple careers such as entertainment, advertising commercials, medical and legal fields and other areas wanting a strong visual impact. Design principles of animation will be used for creating storyboards to develop characters and story lines. Sound will be imported into animations. Multiple file formats and forms of animation will be discussed and explored, including 2D and 3D animation. Adobe software will be used. A final DVD including animation will be created by students for a digital portfolio. Possible Certification: Adobe Photoshop*			
COMMERCIAL PHOTOGRAPHY I Course: 1889CA/CB			Placement: 10-12 Length: 36 weeks
Credits: 2			
Students will develop an understanding of the commercial photography industry with a focus on creating quality photographs. Careers in commercial photography require skills that span all aspects of the industry from setting up a shot to delivering products in a competitive market. Within this context, students will develop knowledge and skills needed for success in the Arts, Audio/Video Technology and Communications career cluster. Equipment Required: DSLR camera Possible Certification: Adobe Photoshop*			
VIDEO GAME DESIGN Course: 1269CT			Placement: 9-12 Length: 18 weeks
Credits: 1			
Students will learn the basics of computer science, video game design and development. Students will program in Game Maker using drag and drop options and scripting. Students will also learn design, teamwork, presentation preparation and delivery, real-			

world time management and many basic computer and media technology skills. Other programming environment and game design techniques may also be studied to reinforce basic skills. Topics covered are mathematics, physics, design and computer programming.

FASHION DESIGN I (Home Campus Only)
Course: 1511A/B

Credits: 1

Placement: 9-12
Length: 36 weeks

Fashion Design provides students with knowledge of the various business functions in the fashion industry and to help students develop an understanding of fashion and the textile and apparel industry. Students in Fashion Design will gain a working knowledge of promotion, merchandising, apparel construction, textiles, fashion history and career opportunities in the fashion industry.

AUDIO/VIDEO PRODUCTION I
Course: 1869CT

Credits: 1

Placement: 9-12
Length: 18 weeks

This course is designed to provide job-specific training for entry-level employment in movie, video and television careers. Students study video technologies, basic equipment operation, video composition, basic lighting and audio production planning and visual storytelling. Students work individually and in groups to create video projects utilizing professional editing equipment and software. Ultimately, students will create a "Demo DVD" of their work. Students will also be responsible for the production of MISD programs covering many of the activities and events at all campuses.

DIGITAL AUDIO TECHNOLOGY I
Course: 1880CT

Credits: 1

Placement: 9-12
Length: 18 weeks

This is an introductory course exploring the Radio Broadcasting industry. Students will study several topics including the history of radio, FCC rules and regulations, audio editing, commercial production and on-air broadcasting. Each student will have an opportunity to write, edit and produce his or her own radio show to be aired on the district's radio station 99.9theWILD (KMAN-FM).

Level III

GRAPHIC DESIGN & ILLUSTRATION II
Prerequisite: Graphic Design & Illustration I
Course: 1893CA/CB

Credits: 2

Placement: 10-12
Length: 36 weeks

This advanced class will provide opportunities for students wanting to expand their skills and knowledge of the graphic arts and illustration field. Students will illustrate their designs and use the design process for presenting design ideas to clients. Students will create commercial artwork, ads, logos, poster and magazine designs, and packaging for 3D designs. Students will explore aspects of careers in the growing field of advertising and visual communications industry

Possible Certification: Adobe Illustrator*

DIGITAL ART & ANIMATION
Prerequisite: Animation I
Course: 1053BB

Credits: 1

Placement: 10-12
Length: 18 Weeks

Digital Art and Animation consists of computer images and animations created with digital imaging software. Digital Art and Animation has applications in many careers, including graphic design, advertising, web design, animation, corporate communications, illustration, character development, script writing, storyboarding, directing, producing, inking, project management, editing, and the magazine, television, film, and game industries. Students in this course will produce various real-world projects and animations. **This course can be used as a Fine Arts Credit.**

3D MODELING & ANIMATION
Prerequisite: Animation I
Course: 1054BB

Credits: 1

Placement: 10-12
Length: 18 Weeks

3-D Modeling and Animation consists of computer images created in a virtual three-dimensional (3-D) environment. 3-D Modeling and Animation has applications in many careers, including criminal justice, crime scene, and legal applications; construction and architecture; engineering and design; and the movie and game industries. Students in this course will produce various 3-D models of real-world objects. **This course can be used as a Fine Arts Credit.**

Possible Certification: Adobe Animate*

COMMERCIAL PHOTOGRAPHY II
Prerequisite: Commercial Photography I
Course: 1888CA/CB

Credits: 2

Placement: 10-12
Length: 36 weeks

Careers in commercial photography span all aspects of the industry from setting up a shot to delivering products in a competitive market. Within this context, in addition to developing advanced technical knowledge and skills needed for success in the Arts,

Audio/Video Technology, and Communications career cluster, students will be expected to develop an advanced technical understanding of the commercial photography industry with a focus on producing, promoting and presenting professional quality photographs.

Equipment Required: DSLR camera

- ★ Students can earn a Certificate of Excellence by achieving a specific list of real world skills related to this course. For the list of skills, please visit goo.gl/9VM3a9

VIDEO GAME PROGRAMMING

Prerequisite: Video Game Design

Course: 1273CT

Credits: 1

Placement: 10-12

Length: 18 weeks

Students will dive into the inner workings of a fully functional role-playing game (RPG) by customizing playable characters, items, maps, and chests and eventually applying customizations by altering and enhancing the core game code. Students will work in the Visual Studio C#, Java programming environments, XNA Game Studio or Unity.

FASHION DESIGN II (Home Campus Only)

Prerequisite: Fashion Design I

Course: 1516A/B

Credits: 1

Placement: 10-12

Length: 36 weeks

Fashion Design II focuses on careers in fashion that span all aspects of the textile and apparel industries. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the fashion industry with an emphasis on design and construction.

AUDIO/VIDEO PRODUCTION II

Prerequisite: Audio/Video Production I

Course: 1871CA/CB

Credits: 2

Placement: 10-12

Length: 36 weeks

This course refines the video and multimedia production skills to prepare the student for post-secondary education or entry-level employment in the media technology industry. Students will be responsible for the production of several programs such as Every 15 Minutes and the Senior Video. Seniors will work on producing their personal Demo Reel which they will be able to utilize for acceptance to various colleges, trade schools and internships.

Possible Certification: Adobe Premiere*

DIGITAL AUDIO TECHNOLOGY II

Prerequisite: Digital Audio Technology I

Course: 1885CT

Credits: 1

Placement: 10-12

Length: 18 weeks

In this advanced course, students will be responsible for the day-to-day operation of the district's radio station, KMAN-FM. All programming will be written, edited and produced by the students for airing on a daily schedule. Students will also be responsible for covering many events including plays, sporting events and newsworthy stories that take place within MISD. Students will continue to develop their interviewing skills, on-air personality and commercial sales abilities. Demo reels will be produced for each student for possible consideration of internships with local radio stations. Students also have the opportunity to compete in Skills USA competitions.

- ★ Students can earn a Certificate of Excellence by achieving a specific list of real world skills related to this course. For the list of skills, please visit goo.gl/9VM3a9

Level IV

PRACTICUM IN GRAPHIC DESIGN & ILLUSTRATION

Prerequisite: Graphic Design & Illustration II

Course: 1899CA/CB

Credits: 2

Placement: 11-12

Length: 36 weeks

Careers in graphic design and illustration span all aspects of the advertising and visual communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop a technical understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. **If a student does not have transportation, opportunities will be limited.**

Possible Certification: Adobe InDesign*

PRACTICUM IN ANIMATION

Prerequisite: Digital Art & Animation OR 3D Modeling & Animation

Course: 1898CA/CB

Credits: 2

Placement: 11-12

Length: 36 weeks

Careers in animation span all aspects of the advertising and visual communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop a technical understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. **If a student does not have transportation, opportunities will be limited.**

PRACTICUM IN COMMERCIAL PHOTOGRAPHY

Prerequisite: Commercial Photography II

Course: 1884CA/CB

Credits: 2

Placement: 11-12

Length: 36 weeks

This course focuses on careers in commercial photography that span all aspects of the industry from setting up a shot to delivering products in a competitive market. In addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an advanced technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs. **If a student does not have transportation, opportunities will be limited.**

ADVANCED VIDEO GAME PROGRAMMING

Prerequisite: Video Game Programming

Course: 1274CT

Credits: 1

Placement: 10-12

Length: 18 weeks

This course give students the opportunity to dive further into game development in a mobile environment and provide them with the real world processes and systems used in the creation of games and simulations. Students will work in the Android and Java environments.

- ★ Students can earn a Certificate of Excellence by achieving a specific list of real world skills related to this course. For the list of skills, please visit goo.gl/9VM3a9

PRACTICUM IN AUDIO/VIDEO PRODUCTION

Prerequisite: Audio/Video Production II

Course: 1873CA/CB

Credits: 2

Placement: 11-12

Length: 36 weeks

In this self-paced independent production course, students will work with a mentor in the film/video industry and produce a final project complete with script, storyboard, casting, crew and premiere to an audience. Students must obtain prior approval before enrolling and provide an outline for a future project to be implemented by the student. **If a student does not have transportation, opportunities will be limited.**

PRACTICUM IN AUDIO TECHNOLOGY

Prerequisite: Digital Audio Technology II

Course: 1887CA/CB

Credits: 2

Placement: 11-12

Length: 36 weeks

This advanced level of Radio Broadcasting is an extension of the two previous classes. This class will focus on the management side of every day operations of 99.9 The Wild, Mansfield ISD's official radio station. The students enrolled in this class will be placed into different managerial roles and will be responsible for promotions, music, programming and everyday operations of the station. This class will prepare them for the everyday ins and outs of a commercial radio station. Students also have the opportunity to compete in Skills USA competitions. **If a student does not have transportation, opportunities will be limited.**

TV STUDIO PRODUCTION

Prerequisite: Audio/Video Production II

Course: 1875CA/CB

Credits: 2

Placement: 11-12

Length: 36 weeks

Students will work in a television studio environment learning all aspects of studio production including camera, lighting, directing, producing and techniques of professional on-air talent. Projects will consist of talk shows, newscasts, game shows etc. that will be scheduled for viewing on MISD-TV. Students will understand the TV studio environment from both the production side as well as the business side. **If a student does not have transportation, opportunities will be limited.**

SPORTS BROADCASTING PRACTICUM

Prerequisite: Digital Audio Technology II

Course: 1877CA/CB

Credits: 2

Placement: 11-12

Length: 36 weeks

This Radio Broadcasting Practicum course focuses on the field of Sports Broadcasting. The students will learn both live play-by-play techniques as well as sports talk radio techniques. The students will be responsible for the athletic events within the district as well as sports programming for 99.9theScore (KMAN-FM). Students develop their interviewing and broadcast preparation skills as well as their sports knowledge. Demo reels will be produced for each student for possible consideration of internships with local sports affiliates. **If a student does not have transportation, opportunities will be limited.**

Supporting Courses

DIGITAL MEDIA
Course: 1280CT

Credits: 1

Placement: 9-12
Length: 18 weeks

Students will develop beginner-intermediate skills in Adobe Creative Suite software including InDesign, Photoshop Extended, Acrobat Professional, Illustrator, and Fireworks. Become a multimedia, presentation master! In this course the students design and create original interactive computer generated multimedia projects and presentations. Students will learn to use digital cameras and scan and edit photographs. Students create animation and dynamic web content while learning about careers and the ethical, acceptable use of multimedia. Portfolio development, along with correct oral and written communication skills will be integral in all aspects of this course.

FASHION MARKETING / ADVERTISING
Course: 1515CT & 1711CT

Credits: 1

Placement: 10-12
Length: 18 weeks

Fashion Marketing is designed to provide students with the knowledge of the various business functions in the fashion industry. Students will gain a working knowledge of promotion, textiles, merchandising, mathematics, selling, visual merchandising and career opportunities in the field of fashion marketing. Advertising is designed as a comprehensive introduction to the principles and practices of advertising. Students will gain knowledge of techniques used in current advertising, including print, broadcast, and digital media. The course explores the social, cultural, ethical, and legal issues of advertising, historical influences, strategies, media decision processes as well as integrated marketing communications, and careers in advertising and sales promotion. Students are encouraged to participate in DECA, a co-curricular youth organization for Marketing, Management and Entrepreneurship. **These courses must be taken together.**

***Students must successfully pass certification test(s) in order to receive the certification.**



Business & Industry Endorsement
Business, Marketing & Finance

Accounting & Financial Services

Levels	Courses			Supporting Courses
Level 1	Principles of Business Marketing & Finance 1715CT / 9-12	Money Matters 1230CT / 9-12	BIM I 1240A-B 9-12	Touch Systems 1211 9-12
Level 2	Accounting I 1271CT / 10-12 <i>Microsoft Office Specialist Excel Certification Possible</i>	Financial Mathematics 1224CT / 10-12 <i>Prerequisite: Algebra I Math Credit</i>	Banking & Financial Services 1226 10-12	
Level 3	Accounting II 1272CT / 11-12 <i>Prerequisite: Accounting I Microsoft Office Expert Excel Certification Possible</i> Math Credit	Financial Analysis 1227CT / 11-12 <i>Prerequisite: Accounting I Local Certification Possible</i>		
Level 4	Security & Investments 1225CT / 11-12	Practicum in Business Management 1251CA-CB / 11-12		

Business Management

Levels	Courses			Supporting Courses
Level 1	Principles of Business Marketing & Finance 1715CT / 9-12		BIM I 1240A-B / 9-12	Touch Systems 1211 9-12
Level 2	Business Law 1215CT / 10-12	Virtual Business 1203 / 10-12	BIM II 1250A-B / 10-12 <i>Prerequisite: BIM I Microsoft Office Specialist Word & Excel Certifications Possible</i>	
Level 3	Business Management 1216CT / 10-12 <i>Prerequisite: 1-Level I or II Business Management Course</i> <i>Local Certification Possible</i>	Global Business AND Human Resource Management 1201CT & 1202CT OR 1201/1202 / 10-12 <i>Courses offered together at Ben Barber or separately at home campus</i>		
Level 4	Practicum in Business Management 1251CA-CB / 11-12			

Entrepreneurship

Levels	Courses			Supporting Courses
Level 1	Principles of Business, Marketing & Finance 1715CT / 9-12			
Level 2	Entrepreneurship 1720CT / 10-12 <i>Entrepreneurship & Small Business Certification Possible</i>			
Level 3	Entrepreneurship II 1721CT / 11-12			
Level 4	Practicum in Business Management			

1251 CA-CB / 11-12				
Marketing & Sales				
Levels	Courses			Supporting Courses
Level 1	Principles of Business, Marketing & Finance 1715CT / 9-12			
Level 2	Sports & Entertainment Marketing AND Social Media Marketing 1725CT AND 1727CT / 9-12 <i>Courses must be taken together</i> <i>Sports & Entertainment Marketing Certification Possible</i>			
Level 3	Fashion Marketing AND Advertising 1515CT AND 1711CT / 10-12 <i>Courses must be taken together</i>			
Level 4	Advanced Marketing 1367CT / 11-12 <i>Prerequisite: One credit from Level 2 or 3 Marketing Courses</i>	Practicum in Marketing 1364 CA-CB / 11-12		
1 Semester Home Campus	2 Semester Home Campus	1 Semester Ben Barber	2 Semester Ben Barber	Ben Barber OR Home Campus
<i>The district will pay 100% of the cost of the certification test if students can show mastery by passing a certification practice test AND maintain an 80+ overall course grade at the time of the certification test. If students don't meet the requirements above, they must pay 100% of the cost of the certification test.</i>				
To earn an endorsement, an MISD student must complete a coherent sequence for 4 or more credits that consist of 2 courses in the same program of study including at least 1 advanced CTE course				
Level I				
PRINCIPLES OF BUSINESS, MARKETING & FINANCE Course: 1715CT			Credits: 1	Placement: 9-12 Length: 18 weeks
Students gain knowledge and skills in economics and private enterprise systems, the impact of global business, 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.				
MONEY MATTERS Course: 1230CT			Credits: 1	Placement: 9-12 Length: 18 weeks
This course introduces students to the financial planning process and the components of a comprehensive financial plan. Students will investigate global economics with emphasis on the free enterprise system and its impact on consumers and businesses. Students will learn how to achieve long-term financial goals by preparing a financial plan that includes saving, investing, budgeting, borrowing, risk management (insurance) and retirement and estate planning. Students will analyze income and taxes, learn to use credit wisely, evaluate personal financial needs and manage personal finances.				
BUSINESS INFORMATION MANAGEMENT I (Home Campus Only) Course: 1240A/B			Credits: 1	Placement: 9-12 Length: 36 weeks
This course provides students the opportunity to implement personal and interpersonal skills to strengthen individual performance in the workplace and/or postsecondary education. Students apply technical skills, using Microsoft Office to create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation.				
Level II				
ACCOUNTING I Course: 1271CT			Credits: 1	Placement: 10-12 Length: 18 weeks
Students in this course will learn to record and interpret accounting information through accounting terminology, the use of the accounting equation and its application to procedures and the basic steps in the accounting cycle. Good work habits and the ability to apply mathematical analysis in problem-solving situations are necessary to satisfactorily complete practice simulation for a sole proprietorship, partnership and/or corporation. Students will complete some work in the computer lab. This course is a "must" for any student planning to major in business or own his/her own business in the future. Possible Certification: Microsoft Office Specialist Excel*				

FINANCIAL MATHEMATICS Prerequisites: Algebra I Course: 1224CT	Credits: 1	Placement: 10-12 Length: 18 weeks
<p>This course is about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors. Financial Mathematics will integrate career and postsecondary education planning into financial decision making. Note: Course can be used as an additional math credit for graduation.</p>		
BANKING & FINANCIAL SERVICES (Home Campus Only) Course: 1226	Credits: 0.5	Placement: 10-12 Length: 18 weeks
<p>This course surveys the principles and practices of banking and credit in the United States and globally. The students learn about the major functions of banks and other depository institutions, in-house operations and procedures, central banking through the Federal Reserve System, and modern trends in the banking industry. Students develop the knowledge and skills in the many aspects of banking to become competent consumers, employees, and entrepreneurs. The credit component provides an overview of credit functions and operations including credit risk evaluation, loan creation and debt collection.</p>		
BUSINESS LAW Course: 1215CT	Credits: 1	Placement: 10-12 Length: 18 weeks
<p>Students analyze the social responsibility of business and industry regarding the significant issues relating to the legal environment, business ethics, torts, contracts, negotiable financial instruments, personal property, sales, warranties, business organizations, concept of agency and employment and real property.</p>		
VIRTUAL BUSINESS (Home Campus Only) Course: 1203	Credits: 0.5	Placement: 10-12 Length: 18 weeks
<p>Virtual Business is designed for students to start a virtual business by creating a web presence, conducting online and off-line marketing, examining contracts appropriate for an online business, and demonstrating project-management skills. Students will also demonstrate bookkeeping skills for a virtual business, maintain business records, and understand legal issues associated with a virtual business.</p>		
BUSINESS INFORMATION MANAGEMENT II (Home Campus Only) Prerequisite: BIM I Course: 1250A/B	Credits: 1	Placement: 10-12 Length: 36 weeks
<p>This course continues where Business Information Management I end and students will create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs and make electronic multimedia presentations. In addition students may prepare for and take Microsoft Office Specialist certification tests in Word, Excel and PowerPoint. Possible Certification: Microsoft Office Specialist Word AND Microsoft Office Specialist Excel*</p>		
ENTREPRENEURSHIP Course: 1720CT	Credits: 1	Placement: 10-12 Length: 18 weeks
<p>Students will gain the knowledge and skills needed to become an entrepreneur, which include learning 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 understand the capital required, the return on investment desired and the potential for profit. Students are encouraged to participate in DECA, a co-curricular youth organization for Marketing, Management and Entrepreneurship. Possible Certification: Entrepreneurship & Small Business*</p>		
SPORTS & ENTERTAINMENT MARKETING / SOCIAL MEDIA MARKETING Course: 1725CT & 1727CT	Credits: 1	Placement: 9-12 Length: 18 weeks
<p>Sports & Entertainment Marketing will allow students to actually study what many universities are offering as college majors. This course exposes students to skills necessary to form a sports franchise and the knowledge needed to have a successful event for ten close friends or thousands of energetic fans. Social Media Marketing is designed to look at the rise of social media and how marketers are integrating social media tools in their overall marketing strategy. The course will investigate how the marketing community measures success in the new world of social media. Students will manage a successful social media presence for an organization, understand techniques for gaining customer and consumer buy-in to achieve marketing goals, and properly select social media platforms to engage consumers and monitor and measure the results of these efforts. Students are encouraged to participate in DECA, a co-curricular youth organization for Marketing, Management and Entrepreneurship. These courses must be taken together. Possible Certifications: Sports & Entertainment Marketing*</p>		

Level III

ACCOUNTING II

Prerequisites: Accounting I

Course: 1272CT

Credits: 1

Placement: 11-12

Length: 18 weeks

Accounting II introduces the fundamentals of management accounting, including manufacturing and cost accounting, budgeting, accounting for managerial decision making and financial statement analysis. Students learn how to use accounting information for internal decision making and for planning and control. Because accounting knowledge is beneficial to business professionals in every discipline, this course provides them with the financial acumen necessary to make informed personal and business decisions. **Note: Course can be used as an additional math credit for graduation.**

Possible Certification: Microsoft Office Expert Excel*

FINANCIAL ANALYSIS

Prerequisites: Accounting I

Course: 1227CT

Credits: 1

Placement: 11-12

Length: 18 weeks

Part of managing a successful and solvent business is evaluating performance in areas such as income, profitability, liquidity, working capital, debt, cash flow, etc. Students will also analyze accounting systems to examine their contribution to the fiscal stability of a business. By the end of the course, students will be able to evaluate company case studies and discuss the financial stability and value of the company.

- ★ Students can earn a Certificate of Excellence by achieving a specific list of real world skills related to this course. For the list of skills, please visit goo.gl/9VM3a9

BUSINESS MANAGEMENT

Prerequisite: 1-Level I or II Business Management Course

Course: 1216CT

Credits: 1

Placement: 10-12

Length: 18 weeks

Students analyze the primary functions of management and leadership, which are planning, organizing, staffing, directing or leading and controlling. They develop a foundation in the economic, financial, technological, international, social and ethical aspects of business to become competent managers, employees and entrepreneurs. Emphasis will be placed on project and video simulations.

- ★ Students can earn a Certificate of Excellence by achieving a specific list of real world skills related to this course. For the list of skills, please visit goo.gl/9VM3a9

GLOBAL BUSINESS / HUMAN RESOURCES MANAGEMENT (Offered at BB & HC)

Course: 1201CT & 1202CT OR 1201,1202

Credits: 1

Placement: 10-12

Length: 18 weeks

In Global Business students will implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce and postsecondary education. Students will apply technical skills to address global business applications of emerging technologies. Students will develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students will enhance reading, writing, computing, communication and reasoning skills and apply them to the business environment. In Human Resource Managements, students analyze the primary functions of human resources management, which include recruitment, selection, training, development and compensation. Topics will incorporate social responsibility of business and industry to its employees. Courses must be taken together at BBIA.

Both Global Business (1201) and Human Resources Management (1202) are offered on the home campus as 0.5 credit courses and do not have to be taken together. They must be taken together at Ben Barber.

ENTREPRENEURSHIP II

Course: 1721CT

Credits: 1

Placement: 11-12

Length: 18 weeks

Students will build on what they learned in Entrepreneurship I. The primary focus of the course is for students to analyze a business opportunity, developing a business plan and developing a plan to organize and promote the business and its products and services. In addition, students understand the capital required, the return on investment desired and the potential for profit. Students are encouraged to participate in DECA, a co-curricular youth organization for Marketing, Management and Entrepreneurship.

FASHION MARKETING / ADVERTISING

Course: 1515CT & 1711CT

Credits: 1

Placement: 10-12

Length: 18 weeks

Fashion Marketing is designed to provide students with the knowledge of the various business functions in the fashion industry. Students will gain a working knowledge of promotion, textiles, merchandising, mathematics, selling, visual merchandising and career opportunities in the field of fashion marketing. Advertising is designed as a comprehensive introduction to the principles

and practices of advertising. Students will gain knowledge of techniques used in current advertising, including print, broadcast, and digital media. The course explores the social, cultural, ethical, and legal issues of advertising, historical influences, strategies, media decision processes as well as integrated marketing communications, and careers in advertising and sales promotion. Students are encouraged to participate in DECA, a co-curricular youth organization for Marketing, Management and Entrepreneurship. **These courses must be taken together.**

Level IV

SECURITIES & INVESTMENTS

Course: 1225CT

Credits: 1

Placement: 9-12

Length: 18 weeks

This course focuses on the roles and functions of a modern securities organization. Through a study of the structure of brokerage firms, the trading process, credit and margin practices, automated processes, and government regulations, students gain an understanding of how a securities firm services its customers and plays an important role in our economy. Students are given the opportunity to relate their knowledge of economics, accounting, and data processing to the international financial systems through participation in stock market simulation games.

PRACTICUM IN BUSINESS MANAGEMENT

Course: 1251CA/CB

Credits: 2

Placement: 11-12

Length: 36 weeks

The Practicum is designed to give students supervised practical application of previously studied knowledge and skills. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication and reasoning skills and apply them to the business environment. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical and international dimensions of business to make appropriate business decisions. **If a student does not have transportation, opportunities will be limited.**

ADVANCED MARKETING

Course: 1367CT

Credits: 1

Placement: 11-12

Length: 18 weeks

Marketing is a series of dynamic activities that focuses on the customer to generate a profitable exchange. Students gain knowledge and skills that help them to be proficient in one or more of the marketing functional areas associated with distribution, financing, marketing information management, pricing, product, planning, promotion, purchasing, risk management and selling skills. Students integrate skills from academic subjects, information technology, interpersonal communication and management training to make responsible decisions. Students participate in leadership and career development activities. Students are encouraged to participate in DECA, a co-curricular youth organization for Marketing, Management and Entrepreneurship. This course may include unpaid career preparation experience.

PRACTICUM IN MARKETING

Course: 1364CA/CB

Credits: 2

Placement: 11-12

Length: 36 weeks

Students gain knowledge and skills that help them become proficient in one or more of the marketing functional areas. This course covers technology, communication, and customer-service skills. The practicum is designed to give students supervised 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. The practicum course is an unpaid experience for students participating in a coherent sequence of career and technical education courses in marketing education. **If a student does not have transportation, opportunities will be limited.**

Supporting Courses

TOUCH SYSTEM DATA ENTRY (Home Campus Only)

Course: 1211

Credits: 0.5

Placement: 9-12

Length: 18 weeks

This course will enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students will need to apply touch system data entry for production of business documents. Students apply technical skills to address business applications of emerging technologies.

***Students must successfully pass certification test(s) in order to receive the certification.**



Public Service Endorsement
Education & Training

Teaching & Training

Levels	Courses	Supporting Courses
Level 1	Principles of Education 1536A-B / 9-12	Principles of Human Services 1505A-B / 9-12 <i>Not a prerequisite</i>
Level 2	Human Growth & Development 1537CT / 10-12 <i>Prerequisite: Principles of Education</i>	Child Development 1520A-B / 10-12 <i>Not a prerequisite</i>
Level 3	Instructional Practices 1531CA-CB / 11-12 <i>Prerequisite: Human Growth & Development AND Selection Process</i> Educational Aide I Certification Possible	
Level 4	Practicum in Education & Training 1535CA-CB / 12 <i>Prerequisite: Instructional Practices AND Selection Process</i>	

1 Semester Home Campus	2 Semester Home Campus	1 Semester Ben Barber	2 Semester Ben Barber	College Course Weighted Credit
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The district will pay 100% of the cost of the certification test if students can show mastery by passing a certification practice test AND maintain an 80+ overall course grade at the time of the certification test. If students don't meet the requirements above, they must pay 100% of the cost of the certification test.

To earn an endorsement, an MISD student must complete a coherent sequence for 4 or more credits that consist of 2 courses in the same program of study including at least 1 advanced CTE course

Level I

PRINCIPLES OF EDUCATION & TRAINING (Home Campus Only)
Course: 1536A/B Credits: 1

Placement: 9-12
Length: 36 weeks

Students will use self-knowledge and educational and career information to analyze various careers within the education and training career cluster. Students will also gain an understanding of the basic knowledge and skills essential to careers within the education and training career cluster. Students will develop a graduation plan that leads to a specific career choice in the student's interest area.

Level II

HUMAN GROWTH & DEVELOPMENT
Prerequisite: Principles of Education & Training
Course: 1537CT Credits: 1

Placement: 10-12
Length: 18 weeks

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

Level III

INSTRUCTIONAL PRACTICES IN EDUCATION & TRAINING
Prerequisite: Human Growth & Development AND Selection Process
Course: 1531CA/CB Credits: 2

Placement: 11-12
Length: 36 weeks

This program provides internship experience for students considering a career in education. Students may be placed in classrooms grades Pre-K through grade 12. Internships will take place at schools within the MISD district and will be assigned based on the student's interest and career goals. Since students will be functioning directly in a teaching environment, it is imperative to exhibit a high academic standard and professional behavior. Students must provide their own transportation and proof of insurance. Students will meet at Ben Barber at least once a week.

Possible Certifications: Educational Aide I*

Level IV

PRACTICUM IN EDUCATION & TRAINING

Prerequisite: Instructional Practices AND Selection Process

Course: 1535CA/CB

Credits: 2

Placement: 12

Length: 36 weeks

Practicum in Education and Training is a field-based internship that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators in direct instructional roles with elementary, middle school, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements and complete other responsibilities of classroom teachers, trainers, paraprofessionals or other educational personnel. **Students must provide their own transportation and proof of insurance.** Students will meet at Ben Barber at least once a week.

Supporting Courses

PRINCIPLES OF HUMAN SERVICES (Home Campus Only)

Course: 1505A/B

Credits: 1

Placement: 9-12

Length: 36 weeks

Principles of Human Services is a laboratory course that will enable students to investigate careers in the Human Services Career Cluster, including counseling and mental health, early childhood development, family and community, personal care, and consumer services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers.

CHILD DEVELOPMENT (Home Campus Only)

Course: 1520A/B

Credits: 1

Placement: 10-12

Length: 36 weeks

This course addresses skills related to child growth and development from pregnancy through school-age. Students will identify healthy behaviors during pregnancy, understand the birthing process, and identify the physical, emotional, social, and intellectual development of children at various stages of development. Other topics include characteristics of quality child care, prevention of child abuse and investigate safe and healthy environments for children to grow and thrive properly.

***Students must successfully pass certification test(s) in order to receive the certification.**



Public Service Endorsement
Health Science

Healthcare Informatics

Levels	Courses	
Level 1	Medical Terminology 1443CT / 9-12	Principles of Health Science 1410CT / 9-12
Level 2	BIM I 1240A-B / 9-12	
Level 3	Medical Coding & Billing 1460CT / 11-12 <i>Prerequisite: BIM I AND Medical Terminology</i> <i>Medical Coding & Billing Specialist Certification Possible</i> <i>Stop the Bleed Certification Possible</i>	
Level 4	World Health Research 1442CT / 11-12 <i>Prerequisite: Biology & Chemistry</i>	

Healthcare Therapeutic

Levels	Courses					
Level 1	Principles of Health Science 1410CT / 9-12					
Level 2	Medical Terminology 1443CT / 9-12					
Level 3	Anatomy & Physiology 0810CT OR 8100A-B 11-12 <i>Prerequisite: Biology & 1 other science credit AND Principles of Health Science Science Credit</i>	Health Science Theory 1411CT 10-12 <i>Prerequisite: Biology AND Principles of Health Science</i> CPR Certification Possible	Medical Microbiology 8120CT 10-12 <i>Prerequisite: Biology & Chemistry AND Principles of Health Science Science Credit</i>	Pathophysiology 8125CT 11-12 <i>Prerequisite: Biology & Chemistry AND Principles of Health Science Science Credit</i>	Phlebotomy* 1424CT 11-12 <i>Prerequisite: Principles of Health Science</i> Phlebotomy Technician Certification Possible	EKG/ECG* 1426CT 11-12 <i>Prerequisite: Principles of Health Science</i> Certified EKG/ECG Technician Possible
Level 4	Pharmacy Technician* 1421CA-CB 12 <i>Prerequisite: Health Science Theory AND any Level 3 HS Course AND selection process</i> Certified Pharmacy Technician Certification Possible	Emergency Medical Technician* 1451CA-CB 12 <i>Prerequisite: Health Science Theory AND any Level 3 HS Course AND selection process</i> Emergency Medical Technician Basic Certification Possible	Certified Nurse Aide/Assistant 1471CT 12 <i>Prerequisite: Health Science Theory AND any Level 3 HS Course AND selection process</i> Certified Nurse Aide/Assistant Certification Possible	Patient Care Technician* 1413CA-CB 12 <i>Prerequisite: Health Science Theory AND Phlebotomy OR EKG/ECG AND selection process</i> Patient Care Technician Certification Possible	Clinical Internship* 1431CA-CB 12 <i>Prerequisite: Health Science Theory AND any Level 3 HS Course AND selection process</i>	

*Students cannot take Phlebotomy AND EKG/ECG. Students cannot take EMT AND Clinical Internship. Students cannot take Pharmacy Tech & Patient Care Technician.

1 Semester Home Campus	2 Semester Home Campus	1 Semester Ben Barber	2 Semester Ben Barber	College Course Weighted Credit
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The district will pay 100% of the cost of the certification test if students can show mastery by passing a certification practice test AND maintain an 80+ overall course grade at the time of the certification test. If students don't meet the requirements above, they must pay 100% of the cost of the certification test.

To earn an endorsement, an MISD student must complete a coherent sequence for 4 or more credits that consist of 2 courses in the same program of study including at least 1 advanced CTE course

Level I

PRINCIPLES OF HEALTH SCIENCE

Course: 1410CT

Credits: 1

Placement: 9-12

Length: 18 weeks

This course provides an introduction to health care careers, education and skills needed to attain various health care degrees, and insight into the functionality of teamwork in health care. Students will have the opportunity to explore: how to build effective communication skills, examine medical ethics and legal responsibilities, discuss standards of client care and safety and medical language as used in a variety of health care environments. This course will enhance the student's ability to successfully secure employment or pursue advanced education in health care and prepare for the transition to clinical or work-based experiences in health care.

Level II

BUSINESS INFORMATION MANAGEMENT I (Home Campus Only)

Course: 1240A/B

Credits: 1

Placement: 9-12

Length: 36 weeks

This course provides students the opportunity to implement personal and interpersonal skills to strengthen individual performance in the workplace and/or postsecondary education. Students apply technical skills, using Microsoft Office to create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation.

MEDICAL TERMINOLOGY

Course: 1443CT

Credits: 1

Placement: 9-12

Length: 18 weeks

Students are introduced to the language of medicine while learning possible lifesaving techniques of CPR and First Aid. Students will learn the structure of medical terms and will build upon this foundation through each body system unit of study. Special focus will be on the application and use of medical language and terminology as it pertains to body systems related to cardiopulmonary emergencies as well as caring for sudden illness and injuries.

Level III

MEDICAL BILLING & CODING

Prerequisite: BIM I AND Medical Terminology

Course: 1460CT

Credits: 1

Placement 11-12

Length: 18 weeks

The medical billing and coding program will offer a unique opportunity for students to learn the business side of medicine. A detailed curriculum takes the students through every step of this of growing field and prepares each student for a future in the medical industry. This course requires students to develop patient bill routines, entering patient demographics, generating financial reports, posting transactions and entering payments, medical administrative duties, and medical records management. Upon successful completion of the Medical Billing and Coding Program, students will be qualified to sit the national certification exam through the National Certified Insurance Coding Specialist. (NCICS)

Possible Certification: Medical Coding & Billing Specialist AND Stop the Bleed* Student must be 16 to take certification exam.

ANATOMY & PHYSIOLOGY

Prerequisite: Biology AND 1 other science AND Principles of Health Science

Course: 0810CT BB/8100A-B HC

Credits: 1

Placement: 11-12

Length: 18wks BB/36wks HC

Students will study the structures and functions of the human body systems. Students will do a comparative study of mammals with an in depth mammalian dissection. Human development, maintenance of homeostasis, transport systems and energy processes will also be topics of study. As part of the laboratory investigative process, students will be active in the dissection of prepared specimens. **Note: Course can be used as an additional science credit for graduation.**

HEALTH SCIENCE THEORY

Prerequisite: Biology and Principles of Health Science

Course: 1411CT

Credits: 1

Placement: 10-12

Length: 18 weeks

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. Students will employ hands-on experiences for continued knowledge and skill development. To pursue a career in the health science industry, students should recognize, learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others.

This course is a prerequisite for ALL Health Science Practicum courses.

Possible Certification: CPR*

MEDICAL MICROBIOLOGY

Prerequisite: Biology AND Chemistry AND Principles of Health Science
Course: 8120CT

Credits: 1

Placement: 10-12

Length: 18 weeks

Students will study the relationships of microorganisms to wellness and disease. Students will develop knowledge and skills related to disease prevention by learning the chain of infection, asepsis and standard precautions. Pathogenic and nonpathogenic organisms will be identified to assist in the understanding of specific diseases, causative agents and treatment options. **Note: Course can be used as an additional science credit for graduation.**

PATHOPHYSIOLOGY

Prerequisite: Biology AND Chemistry AND Principles of Health Science
Course: 8125CT

Credits: 1

Placement: 11-12

Length: 18 weeks

Students will study disease processes and how human systems are affected. Emphasis is placed on prevention and treatment of diseases. Students will differentiate between normal and abnormal physiology. **Note: Course can be used as an additional science credit for graduation.**

PHLEBOTOMY

Prerequisite: Principles of Health Science
Course: 1424CT

Credits: 1

Placement: 11-12

Length: 18 weeks

This course is designed to teach the knowledge in technical and procedural aspects of basic phlebotomy, including collection of blood specimens and venipuncture required to become a Phlebotomy technician. The Phlebotomy Technician program includes theory and hands-on instruction and prepares students to take the Phlebotomy Technician certification exam.

Possible Certification: Phlebotomy Technician*

Students cannot take Phlebotomy and EKG/ECG.

EKG/ECG

Prerequisite: Principles of Health Science
Course: 1426CT

Credits: 1

Placement: 11-12

Length: 18 weeks

This course introduces the basic principles of electrocardiographic devices and their use in testing electrical impulses from the heart. Students learn how to record EKGs, vital signs, cardiac rhythms and stress. Also, individuals learn how EKG changes and myocardial infarctions are associated.

Possible Certification: EKG/ECG Technician*

Students cannot take EKG/ECG and Phlebotomy.

Level IV

WORLD HEALTH

Prerequisite: Biology AND Chemistry
Course: 1442CT

Credits: 1

Placement: 11-12

Length: 18 weeks

This is a research-based course that examines major world health problems and emerging technologies as solutions to current medical problems. This course is designed to improve the student's understanding of the cultural, infrastructural, political, educational, and technological constraints that affect how health care is administered in the United States and in other parts of the world. World Health Research will inspire ideas for appropriate technological solutions to global health care issues. This class will also provide students with the opportunity to delve deep in the developing world as they research the culture, economy, politics, and specific health concerns that people in developing countries face. Units covered in World Health Research include: the history of disease and technology; health care systems around the world; global health and economic data; globalization of health care; public health and epidemiology; chronic and age-related diseases; infectious diseases; mental health and illnesses; maternal and perinatal conditions; immunity and disease; and cutting-edge medical technology. A major portion of this course revolves around a lengthy research project that allows students the opportunity to work in groups to explore health issues that affect a least-developed country.

PHARMACY TECHNICIAN

Prerequisite: Health Science Theory AND any Level 3 course AND selection process
Course: 1421CA/CB

Credits: 2

Placement: 12

Length: 36 weeks

The curriculum will place emphasis on the pharmaceutical knowledge and laboratory skills required of health care workers while offering students the opportunity to add an industry certification to their professional portfolio. Those who successfully complete this course will be expected to take the National Pharmacy Technician Certification exam upon graduation. Students who enroll

in this course will be required to participate in the clinical externship portion of the class and must meet the requirements of the Texas State Board of Pharmacy to be approved as a Pharmacy Technician Trainee. Students will be responsible for their own transportation to the approved clinical externship sites during after school hours. Twenty (20) externship hours will be required of each participant. Students will be required to pay for their own uniform. Students should be prepared to submit to a criminal background check, drug screening, TB testing, and to present proof of current immunizations including current flu shot and valid Social Security card.

Students cannot take Pharmacy Technician and Patient Care Technician.

Course Fees: a \$25 activity fee to help cover the cost of Liability Insurance, TB test, urine drug screening, back ground checks and patch. Students must obtain a Pharmacy Technician Trainee certificate (approximate cost (\$107).

Possible Certification: Certified Pharmacy Technician* Student must be 17 & HS Graduate to take certification exam

EMERGENCY MEDICAL TECHNICIAN

Prerequisite: Health Science Theory AND Level 3 course AND selection process

Course: 1451CA/CB

Credits: 3

Placement: 12

Length: 36 weeks

This course is designed to prepare the student to perform minimum entry-level emergency care in the out of hospital environment. At the end of this course, successful students will be eligible to sit for National certification testing as an Emergency Medical Technician-Basic. Emphasis includes recognizing the nature and seriousness of the patient's condition, administering appropriate emergency medical care, lifting, moving and positioning the patient to minimize discomfort and prevent further injury, and to perform these duties safely and effectively. Students will complete clinical hours in the hospital and ambulance ride outs with the MFD post-graduation to be eligible for the exam. Students should be prepared to submit to a criminal background check, drug screening, TB testing, and to present proof of current immunizations including current flu shot and valid Social Security card. The classroom portion of this course will be taught at the Ben Barber campus. Students will be required to provide their own transportation to clinical sites.

Students cannot take EMT and Clinical Internship.

Course Fee: A \$100.00 activity fee to help cover cost of Liability Insurance and TB test AND security background check and drug screening through MedStar. A uniform is required for this course. Students are required to buy pants, shoes, undershirt, watch and belt.

Possible Certification: Emergency Medical Technician* Student must be 18 & HS Graduate to take certification exam

CERTIFIED NURSING AIDE

Prerequisite: Health Science Theory AND any Level 3 course AND selection process

Course: 1471CT

Credits: 1

Placement: 12

Length: 18 weeks

This course, approved by the Texas Department of Aging and Disability Services, is designed to prepare students for a nursing-related career in healthcare facilities. Students must have an original Social Security card, successfully complete this course and pass the state written and skills performance exams to be listed in the Texas Registry. The classroom portion of the course will be taught at the Ben Barber campus and the clinical experience will be held off campus in a healthcare facility. Students will be provided transportation to the clinical site. All students will be required to utilize this transportation. Students should be prepared to submit to a criminal background check, drug screening, TB testing, and to present proof of current immunizations including current flu shot. All candidates must provide a valid Social Security card.

Course Fee: A \$25.00 activity fee to help cover cost of Liability Insurance, TB test, Urine drug screening, background checks and patch.

Possible Certification: Certified Nursing Assistant* Student must be 16 to take certification exam

PATIENT CARE TECHNICIAN

Prerequisite: Health Science Theory AND Phlebotomy OR EKG/ECG AND selection process

Course: 1413CA/CB

Credits: 2

Placement: 12

Length: 36 weeks

This course prepares students for the Patient Care Technician certification exam and the responsibilities of being a Patient Care Technician. The responsibilities include helping patients with procedures such as taking vital signs, performing electrocardiography (ECG), blood draws and other needs. In addition, students will learn about providing bedside care, interactions with patients, nurses, doctors and patient's family, conduct catheterizations, saline locks and wound care procedures. All students will be required to utilize this transportation. Students should be prepared to submit to a criminal background check, drug screening, TB testing, and to present proof of current immunizations including current flu shot. All candidates must provide a valid Social Security card.

Students cannot take Patient Care Technician and Pharmacy Technician.

Course Fee: A \$25.00 activity fee to help cover cost of Liability Insurance, TB test, Urine drug screening, background checks and patch.

Possible Certification: Patient Care Technician*

CLINICAL INTERNSHIP**Prerequisite: Health Theory AND any Level 3 course AND Selection Process****Course: 1431CA/CB****Credits: 2****Placement: 12****Length: 36 weeks**

This is an internship program for specific health professions. It is designed for those students who desire further study in a specific health specialty. Students are responsible for individualized study supervised by coordinator and clinical supervisor(s). Students are encouraged to participate in Health Occupations Students of America (HOSA), a co-curricular youth organization. Students are directed regarding participation in community service and in HOSA competition/activities. Students will learn multiple advanced practice skills as well as completing multiple research-based projects dealing with various topics related to healthcare. **Students will be expected to provide their own transportation to and from the internship sites.** Students should be prepared to submit to a criminal background check, drug screening, TB testing, and to present proof of current immunizations including current flu shot and valid Social Security card. The classroom portion of this course will be taught at the Ben Barber campus.

Course Fee: A \$25.00 activity fee to help cover cost of Liability Insurance, TB test, Urine drug screening, background checks and patch.

Students cannot take Clinical Internship and EMT.

***Students must successfully pass certification test(s) in order to receive the certification.**



Business & Industry Endorsement
Hospitality & Tourism

Culinary Arts

Levels	Courses	Supporting Courses		
Level 1	Introduction to Culinary Arts 1542CT OR 1542A-B / 9-12 <i>Offered at Ben Barber AND Home Campus</i>			
Level 2	Culinary Arts 1546CA-CB / 10-12 <i>Prerequisite: Introduction to Culinary Arts</i> Certified Fundamentals Certification Possible			
Level 3	Advanced Culinary Arts 1558CA-CB / 11-12 <i>Prerequisite: Culinary Arts AND Selection Process</i> Certified Fundamentals Pastry Cook Certification Possible			
Level 4	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;"> Practicum in Culinary Arts I 1547CA-CB / 11-12 <i>Prerequisite: Culinary Arts AND Selection Process</i> ServSafe Manager Certification Possible </td> <td style="width: 50%;"> Practicum in Culinary Arts II 1549CA-CB / 12 <i>Prerequisite: Culinary Arts AND Selection Process</i> </td> </tr> </table>	Practicum in Culinary Arts I 1547CA-CB / 11-12 <i>Prerequisite: Culinary Arts AND Selection Process</i> ServSafe Manager Certification Possible	Practicum in Culinary Arts II 1549CA-CB / 12 <i>Prerequisite: Culinary Arts AND Selection Process</i>	
Practicum in Culinary Arts I 1547CA-CB / 11-12 <i>Prerequisite: Culinary Arts AND Selection Process</i> ServSafe Manager Certification Possible	Practicum in Culinary Arts II 1549CA-CB / 12 <i>Prerequisite: Culinary Arts AND Selection Process</i>			

1 Semester Home Campus	2 Semester Home Campus	1 Semester Ben Barber	2 Semester Ben Barber	Ben Barber or Home Campus
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The district will pay 100% of the cost of the certification test if students can show mastery by passing a certification practice test AND maintain an 80+ overall course grade at the time of the certification test. If students don't meet the requirements above, they must pay 100% of the cost of the certification test.

To earn an endorsement, an MISD student must complete a coherent sequence for 4 or more credits that consist of 2 courses in the same program of study including at least 1 advanced CTE course

Level I

INTRODUCTION TO CULINARY ARTS (Offered at BB & HC) **Placement: 9-12**
Prerequisite: Recommended that 11th/12th graders take on home campus and 9th/10th take at BB **Length: 18 weeks**
Course: 1542CT/1542CA-CB **Credits: 1**

This laboratory course teaches students to make informed choices that promote nutrition and wellness throughout the life cycle. Instruction addresses nutritional needs of individuals, menu planning, special dietary needs, food costs and budgeting, food safety and sanitation procedures, food handling and basic food preparation procedures.

Level II

CULINARY ARTS **Placement: 10-12**
Prerequisite: Intro to Culinary Arts **Length: 36 weeks**
Course: 1546CA/CB **Credits: 2**

This is a laboratory course designed to provide specific training leading to enhanced knowledge and skills for employment in the area of Culinary Arts. Students will develop skills in culinary and baking techniques, as well as prepared catered events. Students will also learn prepping techniques for restaurant operations, which will be used in future courses involving the on-campus restaurant, Savvy's Bistro.

Course Fee: Each student is required to purchase a uniform for \$50.00

Possible Certification: Certified Fundamentals*

Level III

ADVANCED CULINARY ARTS **Placement: 11-12**
Prerequisite: Culinary Arts AND Selection Process **Length: 36 weeks**
Course: 1558CA/CB **Credits: 2**

This course will extend content and enhance skills introduced in Culinary Arts by in-depth instruction of industry-driven standards in order to prepare students for success in higher education, certifications and/or immediate employment. Students will continue to develop in-depth skills in culinary and baking techniques, as well as prepare catered events. Students will also learn prepping techniques for restaurant operations which will be used in future courses involving the on-campus restaurant, Savvy's Bistro and be introduced to advanced cake assembly, laminated dough, chocolate work, plating and specialty showpieces. Students will also taste and evaluate products they create in class to enhance their understanding of the course material.

Course Fee: Each student is required to wear their uniform or purchase one for \$50.00

Possible Certification: Certified Fundamentals Pastry Cook*

Level IV

PRACTICUM IN CULINARY ARTS I

Prerequisite: Culinary Arts AND Selection Process

Course: 1547CA/CB

Credits: 2

Placement: 11-12

Length: 36 weeks

This advanced laboratory course 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. Students will manage the daily operations of the on-campus restaurant, Savvy's Bistro. Students will be instructed in efficient back-of-the-house operations as well as front-of-the-house operations. Students will participate in a broad range of experiences related to the culinary arts industry.

Course Fee: Each student is required to wear their uniform or purchase one for \$50.00

Possible Certification: ServSafe Manager*

PRSCITUM IN CULINARY ARTS II

Prerequisite: Culinary Arts AND Selection Process

Course: 1549CA/CB

Credits: 2

Placement: 12

Length: 36 weeks

This advanced laboratory course provides high level instruction in the kitchen/restaurant management. Students will receive extensive training in food preparation, inventory control, food cost and profit/loss analysis; all of which assist/support the student operated restaurant, Savvy's Bistro. **Students are required to be ServSafe certified.**

*Students must successfully pass certification test(s) in order to receive the certification.



Public Service Endorsement
Human Services

Family & Community Services

Levels	Courses			
Level 1	Principles of Human Services 1505A-B / 9 - 12	Professional Communications 2246 / 9 - 12	Interpersonal Studies 1517 / 9 - 12	Dollars & Sense 1220 / 9 - 12
Level 2	Lifetime Nutrition & Wellness 1513 / 9 - 12	Human Growth & Development 1537CT / 10 - 12 <i>Prerequisite: Principles of Education</i>		Child Development 1520A-B / 10 - 12
Level 3	Counseling & Mental Health 1514A-B / 11-12 <i>Prerequisite: 2 credits from Level I or II in Family & Consumer Science</i>			
Level 4	No courses offered in this level at this time			

1 Semester Home Campus	2 Semester Home Campus	1 Semester Ben Barber	2 Semester Ben Barber	College Course Weighted Credit
To earn an endorsement, an MISD student must complete a coherent sequence for 4 or more credits that consist of 2 courses in the same program of study including at least 1 advanced CTE course				

Level I

<p>PRINCIPLES OF HUMAN SERVICES (Home Campus Only) Course: 1505A/B</p> <p>Credits: 1</p> <p>Placement: 9-12 Length: 36 weeks</p> <p>Principles of Human Services is a laboratory course that will enable students to investigate careers in the Human Services Career Cluster, including counseling and mental health, early childhood development, family and community, personal care, and consumer services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers.</p>
<p>PROFESSIONAL COMMUNICATIONS (Home Campus Only) Course: 2246</p> <p>Credits: 0.5</p> <p>Placement: 9-12 Length: 18 weeks</p> <p>Professional Communications blends written, oral and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation and a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics and conduct Internet research. Students who are enrolled in this course will receive Professional Communications credit, which satisfies this ½ credit graduation requirement.</p>
<p>INTERPERSONAL STUDIES (Home Campus Only) Course: 1517</p> <p>Credits: 0.5</p> <p>Placement: 9-12 Length: 18 weeks</p> <p>Interpersonal Studies examines how the relationships between individuals and among family members significantly affect the quality of life. Students use knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers related to counseling and mental health services.</p>
<p>DOLLARS & SENSE (Home Campus Only) Course: 1220</p> <p>Credits: 0.5</p> <p>Placement: 9-12 Length: 18 weeks</p> <p>This course focuses on decision-making skills related to money management. Students will plan a household budget, understand proper credit card use, balance a check book, and calculate interest accrued from loans.</p>

Level II

<p>LIFETIME NUTRITION & WELLNESS (Home Campus Only) Course: 1513</p> <p>Credits: 0.5</p> <p>Placement: 9-12 Length: 18 weeks</p>

This laboratory course teaches students to make informed choices that promote nutrition and wellness throughout the life cycle. Instruction addresses nutritional needs of individuals, menu planning, special dietary needs, food costs and budgeting, food safety and sanitation procedures, food handling and basic food preparation procedures.

HUMAN GROWTH & DEVELOPMENT

Prerequisite: Principles of Education & Training

Course: 1537CT

Credits: 1

Placement: 10-12

Length: 18 weeks

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

CHILD DEVELOPMENT (Home Campus Only)

Course: 1520A/B

Credits: 1

Placement: 10-12

Length: 36 weeks

This course addresses skills related to child growth and development from pregnancy through school-age. Students will identify healthy behaviors during pregnancy, understand the birthing process, and identify the physical, emotional, social, and intellectual development of children at various stages of development. Other topics include characteristics of quality child care, prevention of child abuse and investigate safe and healthy environments for children to grow and thrive properly.

Level III

COUNSELING & MENTAL HEALTH (Home Campus Only)

Prerequisite: 2 credits from Level I or II in Family & Consumer Science

Course: 1514A/B

Credits: 1

Placement: 11-12

Length: 36 weeks

Students model the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. Students are expected to apply knowledge of ethical and legal responsibilities, limitations and the implications of their actions. Professional integrity in counseling and mental health care is dependent on acceptance of ethical and legal responsibilities.



Business & Industry AND STEM Endorsement
Information Technology

Networking Systems

Levels	Courses	
Level 1	Computer Science I (PLTW) 1050CT / 9-12 <i>Prerequisite: Algebra I</i> LOTE Credit	Principles of Information Technology 1850CT / 9-12
Level 2	AP Computer Science Principles 1266CT / 9-12 <i>Prerequisite: Algebra I</i>	Computer Maintenance 1829CA-CB / 10-12 CompTIA A+ Certification Possible
Level 3		Networking 1831CA-CB / 11-12 <i>Prerequisite: Computer Maintenance</i> CompTIA Network + Certification Possible
Level 4	Practicum in Information Technology 1851CA-CB / 12 <i>Prerequisite: 2 courses in Information Technology OR STEM</i> Oracle Certified Database Associate Certification Possible	

1 Semester Home Campus	2 Semester Home Campus	1 Semester Ben Barber	2 Semester Ben Barber	College Course Weighted Credit
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The district will pay 100% of the cost of the certification test if students can show mastery by passing a certification practice test AND maintain an 80+ overall course grade at the time of the certification test. If students don't meet the requirements above, they must pay 100% of the cost of the certification test.

To earn an endorsement, an MISD student must complete a coherent sequence for 4 or more credits that consist of 2 courses in the same program of study including at least 1 advanced CTE course

Level I

COMPUTER SCIENCE I (PLTW)
Prerequisite: Algebra I
Course: 1050CT

Credits: 1

Placement: 9-12
Length: 18 weeks

Computer Science I will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts. This is a Project Lead the Way course. **Note: Course can be used as a LOTE credit for graduation.**

PRINCIPLES OF INFORMATION TECHNOLOGY
Course: 1850CT

Credits: 1

Placement: 9-12
Length: 18 weeks

Students develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students enhance reading, writing, computing, communication and reasoning skills and apply them to the information technology environment. Students investigate the vast wealth of career opportunities in the Information Technology field. Students learn beginning computer programming skills and the program design process.

Level II

AP COMPUTER SCIENCE PRINCIPLES 
Prerequisite: Algebra I
Course: 1266CT

Credits: 1

Placement: 9-12
Length: 18 weeks

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

and reasoning skills that are the foundation of computer science. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations and concepts.

COMPUTER MAINTENANCE

Course: 1829CA/CB

Credits: 2

Placement: 10-12

Length: 36 weeks

This course prepares students for jobs in the Information Technology field. For entry-level IT technicians, this course covers preventative maintenance, basic networking, installation, troubleshooting, communication and professionalism. Students also research current technology. Students will demonstrate mastery of the industry-defined employment skills.

Possible Certification: CompTIA A+*

Level III

NETWORKING

Prerequisite: Computer Maintenance

Course: 1831CA/CB

Credits: 2

Placement: 11-12

Length: 36 weeks

This course provides the student with theory and hands-on experience. The students gain experience in resolving hardware and software conflicts. Students practice SCAN Skills (industry-defined employment skills). 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. To prepare for success, students will have opportunities to reinforce, apply and transfer knowledge and skills to a variety of settings and problems.

Possible Certification: CompTIA Network*

Level IV

PRACTICUM IN INFORMATION TECHNOLOGY

Prerequisite: 2 courses in Information Technology OR STEM

Course: 1851CA/CB

Credits: 2

Placement: 12

Length: 36 weeks

This personalized independent study course will allow students interested in pursuing a career in information technology opportunities for advanced learning beyond the classroom environment. Students will engage in a variety of industry relevant experiences such as competition and or product innovation, classroom teaching opportunities, and/or advanced topics research and development. **If a student does not have transportation, opportunities will be limited.**

Possible Certification: Oracle Certified Database Associate

 Weighted Credit

*Students must successfully pass certification test(s) in order to receive the certification.



Public Service Endorsement
Law & Public Service

Law Enforcement

Levels	Courses		
Level 1	Principles of Law, Public Safety, Corrections & Security 9400CT / 9-12		
Level 2	Law Enforcement I 9410CT / 9-12 <i>Prerequisite: Principles of Law FEMA – Intro to Incident Command Certification Possible</i>	Federal Law Enforcement & Protective Services 9450CT / 9-12 <i>Prerequisite: Principles of Law Non-Commissioned Security Officer Level II Certification Possible</i>	Criminal Investigation 9411CT / 10-12 <i>Prerequisite: Principles of Law What Every Officer Should Know About DNA Evidence Certification Possible</i>
Level 3	Law Enforcement II 9420CT / 10-12 <i>Prerequisite: Law Enforcement I IAED Emergency Telecommunicator Certification Possible</i>	Correctional Services 9440CT / 12 <i>Prerequisite: Principals of Law Correctional Officer Certification Possible</i>	Forensic Psychology 9431CT / 11-12 <i>Law 101: Legal Guide for Forensic Expert Certification Possible</i>
Level 4	Practicum in Law, Public Safety, Corrections & Security 9422CA-CB / 11-12	Counseling & Mental Health 1514A-B / 11-12	Forensic Science 9430CT / 11-12 <i>Prerequisite: Forensic Psychology AND Biology AND Chemistry Crime Scene & DNA Basics Certification Possible Science Credit</i>

Legal Studies

Levels	Courses	Supporting Courses
Level 1	Principles of Law, Public Safety, Corrections & Security 9400CT / 9-12	
Level 2	Court Systems & Practices 9415CT / 10-12	Business Law 1215CT / 11-12
Level 3	Advanced Court Systems 9416CT / 11-12 <i>Prerequisite: Court Systems & Practices</i>	
Level 4	Practicum in Law, Public Safety, Corrections & Security 9422CA-CB / 11-12	

1 Semester Home Campus	2 Semester Home Campus	1 Semester Ben Barber	2 Semester Ben Barber	College Course Weighted Credit
<i>The district will pay 100% of the cost of the certification test if students can show mastery by passing a certification practice test AND maintain an 80+ overall course grade at the time of the certification test. If students don't meet the requirements above, they must pay 100% of the cost of the certification test.</i>				
To earn an endorsement, an MISD student must complete a coherent sequence for 4 or more credits that consist of 2 courses in the same program of study including at least 1 advanced CTE course				

Level I

PRINCIPLES OF LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY Placement: 9-12
 Course: 9400CT Credits: 1 Length: 18 weeks

This course introduces students to professions in law enforcement, security, corrections and fire and emergency management services. Student will examine the roles and responsibilities of police, courts, corrections, private security and protective agencies of fire and emergency services. Emphasis is placed on constitutional laws for criminal procedures that are building blocks for a career in the criminal justice system. The course provides student with an overview of the skills necessary for careers in law enforcement, fire service, security and corrections.

Level II

LAW ENFORCEMENT I

Prerequisite: Principles of Law, Public Safety
Course: 9410CT

Credits: 1

Placement: 9-12
Length: 18 weeks

This course is an overview of the history, organization and functions of local, state, and federal law enforcement. This course includes the role of constitutional law, the United States legal system, criminal law, law enforcement terminology, and the classification and elements of crime. Components of this course emulate elements of a Police Academy where student will apply their knowledge and skills into a scenario-based learning environment.

Course Fee: Each student is required to purchase a uniform for \$35.00

Possible Certifications: FEMA Intro to Incident Command*

FEDERAL LAW ENFORCEMENT & PROTECTIVE SERVICES

Prerequisite: Principles of Law, Public Safety
Course: 9450CT

Credits: 1

Placement: 9-12
Length: 18 weeks

Federal Law Enforcement and Protective Services provides the knowledge and skills necessary to prepare for certification in security services for federal law enforcement and protective services. The course provides an overview of security elements and types of organizations with a focus on security measures used to protect lives, property, and proprietary information, to ensure computer security, to provide information assurance, and to prevent cybercrime.

Possible Certifications: Non-Commissioned Security Officer Level II*

CRIMINAL INVESTIGATION

Prerequisite: Principles of Law, Public Safety
Course: 9411CT

Credits: 1

Placement: 10-12
Length: 18 weeks

Criminal Investigation is a course that introduces students to the profession of criminal investigations. Students will understand basic functions of criminal investigations and procedures and will learn how to investigate or follow up during investigations. Students will learn terminology and investigative procedures related to criminal investigation, crime scene processing, evidence collection, fingerprinting, and courtroom presentation. Through case studies and simulated crime scenes, students will collect and analyze evidence such as fingerprint analysis, bodily fluids, hairs, fibers, shoe and tire impressions, bite marks, drugs, tool marks, firearms and ammunition, blood spatter, digital evidence, and other types of evidence.

Possible Certifications: What every Investigator Know about DNA Evidence*

COURT SYSTEMS & PRACTICES

Course: 9415CT

Credits: 1

Placement: 10-12
Length: 18 weeks

Court Systems & Practices is an overview of the federal and state court systems. The course identifies the roles of judicial officers and the trial process from pretrial to sentencing and examines the types and rules of evidence. Emphasis is placed on constitutional law for criminal procedures such as search and seizure, stop and frisk and interrogation.

BUSINESS LAW

Course: 1215CT

Credits: 1

Placement: 11-12
Length: 18 weeks

Students analyze the social responsibility of business and industry regarding the significant issues relating to the legal environment, business ethics, torts, contracts, negotiable financial instruments, personal property, sales, warranties, business organizations, concept of agency and employment and real property.

Level III

LAW ENFORCEMENT II

Prerequisite: Law Enforcement I
Course: 9420CT

Credits: 1

Placement: 10-12
Length: 18 weeks

Law Enforcement II provides the knowledge and skills necessary to prepare for a career in law enforcement. This course includes the ethical and legal responsibilities, operation of police and emergency telecommunication equipment, and courtroom testimony. Components of this course emulate more extensive elements of a Police Academy where students will apply their knowledge and skills into a scenario-based learning environment. Students have the option to take the exam for the Emergency Telecom Certification.

Course Fee: Each student is required to purchase a uniform for \$35.00

Possible Certifications: IAED Emergency Telecommunicator*

CORRECTIONAL SERVICES

Placement: 12

Prerequisite: Principles of Law
Course: 9440CT

Credits: 1

Length: 18 weeks

In Correctional Services, students prepare for the certification required for employment as a correctional officer. The student will learn the role and responsibilities of a correctional officer; discuss relevant rules, regulations, and laws; and discuss defensive tactics, restraint techniques, and first aid procedures as used in the correctional setting. The student will analyze rehabilitation and alternatives to institutionalization.

Possible Certification: Corrections Officer* Student must be 18 to take certification exam.

FORENSIC PSYCHOLOGY
Course: 9431CT

Credits: 1

Placement: 11-12
Length: 18 weeks

Forensic Psychology uses and applies basic skills developed in psychology to criminal behavior and criminal scenarios resulting in a structured and scientific approach to investigative analysis, which enables police or law enforcement officials to predict criminal activity based upon mathematical/scientific data versus abstract intuition.

Possible Certifications: Law 101: Legal Guide for Forensic Expert*

ADVANCED COURT SYSTEMS
Prerequisite: Court Systems & Practices
Course: 9416CT

Credits: 1

Placement: 11-12
Length: 18 weeks

This course is a more in depth look of the federal and state court systems. Emphasis is placed on constitutional law for criminal procedures such as search and seizure, stop and frisk and interrogation. Students will role play in the court room and train to compete in mock trial competitions.

Level IV

PRACTICUM IN LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY
Course: 9422CA/CB

Credits: 2

Placement: 11-12
Length: 36 weeks

Students will have supervised practical application of previously studied knowledge and skills in Law, Public Safety, Corrections, and Security by participating in a non-paid Internship that is related to their interest within the Criminal Justice Field. Partners include the MISD Police Department, Local Government Agencies, Local Attorneys, Texas Department of Criminal Justice, Texas Attorney General and Tarrant County Sheriff's Department. **If a student does not have transportation, opportunities will be limited.**

COUNSELING & MENTAL HEALTH (Home Campus Only)
Course: 1514A/B

Credits: 1

Placement: 11-12
Length: 36 weeks

Students model the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. Students are expected to apply knowledge of ethical and legal responsibilities, limitations and the implications of their actions. Professional integrity in counseling and mental health care is dependent on acceptance of ethical and legal responsibilities.

FORENSIC SCIENCE
Prerequisite: Forensic Psychology AND Biology AND Chemistry
Course: 9430CT

Credit: 1

Placement: 11-12
Length: 18 weeks

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

Possible Certification: Crime Scene & DNA Basics*

***Students must successfully pass certification test(s) in order to receive the certification.**



**Business & Industry Endorsement
Manufacturing**

Manufacturing Technology

Levels	Courses	Supporting Courses
Level 1	Principles of Manufacturing 1809CT / 9-12	
Level 2	Diversified Manufacturing I <i>Prerequisites: Principles of Manufacturing</i> 1828CT / 9-12	Robotics 1856CT / 9-12
Level 3	Precision Metal Manufacturing I 1806CA-CB / 10-12 <i>Prerequisites: Principles of Manufacturing</i> OSHA 10 Hour Certification Possible	
Level 4	Precision Metal Manufacturing II 1807CA-CB / 11-12 <i>Prerequisite: Precision Metal Manufacturing I</i> NIMS Level I CNC Milling Certification Possible	Practicum in Manufacturing 1822CA-CB / 12 <i>Prerequisite: Precision Metal Manufacturing I</i>

Welding

Levels	Courses	Supporting Courses
Level 1	Principles of Manufacturing 1809CT / 9-12	
Level 2	Welding I 1813 CA-CB / 10-12 <i>Prerequisite: Principles of Manufacturing</i> AWS D9.1 Sheet Metal AND OSHA 10 Hour Certification Possible	TCC WLDG 1428 Intro to Shielded Metal Arc Welding 0176 / 10-12 <i>No TSI Requirement</i> Weighted Credit TCC WLDG 1430 Intro to Gas Metal Arc Welding 0177 / 10-12 <i>No TSI Requirement</i> Weighted Credit
Level 3	Welding II 1814CA-CB / 11-12 <i>Prerequisites: Welding I</i> AWS D1.1 Structural Steel Certification Possible	TCC WLDG 1317 Intro to Layout & Fabrication 0178 / 11-12 <i>No TSI Requirement</i> Weighted Credit
Level 4	Practicum in Manufacturing 1822CA-CB / 12 <i>Prerequisites: Welding I</i>	

1 Semester Home Campus	2 Semester Home Campus	1 Semester Ben Barber	2 Semester Ben Barber	College Course Weighted Credit
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The district will pay 100% of the cost of the certification test if students can show mastery by passing a certification practice test AND maintain an 80+ overall course grade at the time of the certification test. If students don't meet the requirements above, they must pay 100% of the cost of the certification test.

To earn an endorsement, an MISD student must complete a coherent sequence for 4 or more credits that consist of 2 courses in the same program of study including at least 1 advanced CTE course

Level I

PRINCIPLES OF MANUFACTURING
Course: 1809CT

Credit: 1

Placement: 9-12
Length: 18 weeks

Students will gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. Students will prepare for the modern world, using knowledge and skills in the proper application of principles of manufacturing, the design of technology, the efficient production of technology,

and the assessment of the effects of manufacturing production technology. Students will apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing setting. Students will gain an understanding of career opportunities available in manufacturing and what employers require to obtain and maintain employment in these careers.

Level II

DIVERSIFIED MANUFACTURING

Prerequisite: Principles of Manufacturing

Course: 1828CT

Credit: 1

Placement: 9-12

Length: 18 weeks

Students gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. The study of manufacturing systems allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing setting.

WELDING I

Prerequisite: Principles of Manufacturing

Course: 1813CA/CB

Credits: 2

Placement: 10-12

Length: 36 weeks

This course provides the knowledge, skills, and technology required for employment in metal technology systems. This course supports the integration of academic and technical knowledge and skills. Students will wire weld as well as use hand and power tools. The plasma cutter and the cutting torch will be also be introduced. Students will use measurement, drafting, welding and metal fabrication skills. Projects may require a lab fee.

Possible Certification: AWS D9.1 Sheet Metal and OSHA 10 Hour*

TCC WLDG 1428 Introduction to Shielded Metal Arc Welding and TCC WLDG 1430 Introduction to Gas Metal Arc Welding can be taken concurrently with this class. There is no TSI requirement, but students must register and pay tuition by TCC deadline.

Level III

PRECISION METAL MANUFACTURING I

Prerequisite: Principles of Manufacturing

Course: 1806CA/CB

Credits: 2

Placement: 10-12

Length: 36 weeks

This course provides the knowledge, skills, and technologies required for employment in metal technology systems. This course may also address a variety of materials in addition to metal such as plastics, ceramics, and wood. Students develop knowledge of the concepts and skills related to these systems to apply them to personal and career development. Projects may require a lab fee.

Possible Certification: OSHA 10 Hour*

WELDING II

Prerequisite: Welding I

Course: 1814CA/CB

Credits: 2

Placement: 11-12

Length: 36 weeks

This course builds upon knowledge and skills developed in Collision Repair and Welding. Students will develop advanced welding concepts and skills as they relate to personal career development. This course integrates academic and technical knowledge and skills. Students will have opportunities to reinforce, apply and transfer knowledge and skill to a variety of settings and problems. Projects may require a lab fee.

Possible Certification: AWS D1.1 Structural Steel*

TCC WLDG 1417 Introduction to Layout & Fabrication can be taken concurrently with this class. There is no TSI requirement, but students must register and pay tuition by TCC deadline.

Level IV

PRECISION METAL MANUFACTURING II

Prerequisite: Precision Metal Manufacturing I

Course: 1807CA/CB

Credits: 2

Placement: 11-12

Length: 36 weeks

This course trains students in the area of Computer Numerical Control (CNC) entry and intermediate machinist skills. This course will enhance technical knowledge and skills by allowing students the opportunity to explore career preparation through onsite internships with manufacturing business partners in our community. Student must provide their own transportation to participate in this course.

Possible Certification: NIMS Level 1 CNC Milling*

PRACTICUM IN MANUFACTURING**Prerequisite:** Welding I OR Precision Metal Manufacturing I**Course:** 1822CA/CB**Credits:** 2**Placement:** 12**Length:** 36 weeks

Students will gain supervised practical application of previously studied knowledge and skills in metal manufacturing focusing on welding. Students in this course will be required to participate in an internship with a local business to give them real world work experience. The student is expected to go out and secure this internship within the first week of class. Students are expected to know how to use all equipment from previous courses as well as be able to read and interpret working drawings with weld symbols. **If a student does not have transportation, opportunities will be limited.**

Supporting Courses

ROBOTICS I**Course:** 1856CT**Credits:** 1**Placement:** 9-12**Length:** 18 weeks

Students enrolled in this course will demonstrate knowledge and skills necessary for the robotic and automation industry. Through implementation of the design process, students will transfer advanced academic skills to component designs in a project-based environment. Students will build prototypes or use simulation software to test their designs. Additionally, students explore career opportunities, employer expectations and educational needs in the robotic and automation industry.

TCC WLDG 1428 INREO TO SHIELDED METAL ARC WELDING **Prerequisite:** Principles of Manufacturing**Course:** 0176**Credits:** 1**Placement:** 10-12**Length:** 18 weeks

This course is an introduction to the shielded metal arc process. Emphasis is placed on power sources, electrode selection, oxy-fuel cutting and various joint designs. Instruction provided in SMAW fillet welding in various positions. Course offered at Ben Barber and is taught concurrently with Welding I (1813CA/CB).

TCC WLDG 1430 INTRO TO GAS METAL ARC WELDING **Prerequisite:** Principles of Manufacturing**Course:** 0177**Credits:** 1**Placement:** 10-12**Length:** 18 weeks

This course teaches the principles of gas metal arc welding, set-up and use of GMAW equipment and safe use of tools and equipment. Instruction in various joint designs. Course offered at Ben Barber and is taught concurrently with Welding I (1813CA/CB).

TCC WLDG 1417 INTRO TO LAYOUT & DESIGN **Prerequisite:** Welding I**Course:** 0178**Credits:** 1**Placement:** 11-12**Length:** 18 weeks

This fundamental course in layout and fabrication related to the welding industry. Major emphasis is placed on structural shapes and use in construction. Course offered at Ben Barber and is taught concurrently with Welding II (1814CA/CB)

 Weighted Credit

*Students must successfully pass certification test(s) in order to receive the certification



STEM Endorsement
Science, Technology, Engineering & Math

Cybersecurity


Levels	Courses		
Level 1	Foundations of Cybersecurity 1853CT / 9-12		Principles of Information Technology 1850CT / 9-12
Level 2	Computer Programming I 1260CT / 9-12	Computer Science I (PLTW) 1050CT / 9-12 <i>Prerequisite: Algebra I</i> LOTE Credit	AP Computer Science Principles 1266CT / 9-12
	PreAP Computer Programming I 1263CT / 9-12		
Level 3	Networking 1831CA-CB / 10-12 <i>CompTIA Network + Certification Possible</i>		
Level 4	Practicum in Information Technology 1851CA-CB / 12 <i>Prerequisite: 2 courses in Information Technology OR STEM</i> <i>Oracle Certified Database Associate Certification Possible</i>		

Engineering

Levels	Courses			Supporting Courses
Level 1	Introduction to Engineering (PLTW) 1835CT / 9 -12 Weighted Credit	Principles of Applied Engineering 1610A-B / 9 -12		Robotics 1856CT / 9-12
Level 2	Principles of Engineering (Engineering Science) (PLTW) 1836CT / 10-12 <i>Prerequisite: Intro to Engineering AND Algebra I AND Biology AND Chemistry OR IPC</i> Weighted Credit, Science Credit			AC/DC Electronics 1841CT / 10-12 <i>OSHA 10 Hour Certification Possible</i>
Level 3	Computer Integrated Manufacturing (PLTW) 1838CT / 10-12 <i>Prerequisite: Principles of Engineering</i> Weighted Credit <i>Local Certification Possible</i>	Aerospace Engineering (PLTW) 1834CT / 10-12 <i>Prerequisite: Principles of Engineering</i> Weighted Credit	Civil Engineering & Architecture (PLTW) 1861CT / 10-12 <i>Prerequisite: Principles of Engineering</i> Weighted Credit	Solid State Electronics 1843CT / 10-12 <i>Prerequisite: AC/DC Electronics</i> <i>Local Certification Possible</i>
Level 4	Edu-Drone I 1860CT / 11-12 <i>Prerequisite: Algebra I AND must have driver's license by the end of the semester</i> <i>FAA Part 107 Remote Drone Pilot Certification Possible</i>	Engineering Design & Development (PLTW) 1845CT / 11-12 <i>Prerequisite: CIM OR AE OR CE</i> Weighted Credit		

Programming & Software Development

Levels	Courses		
Level 1	No courses offered at Level 1 in this program of study		
Level 2	Computer Programming I 1260CT / 9-12	Computer Science I (PLTW) 1050CT / 9-12 <i>Prerequisite: Algebra I</i> LOTE Credit	AP Computer Science Principles 1266CT / 9-12
	PreAP Computer Programming I 1263CT / 9-12		

Level 3	AP Computer Programming II 1265CT / 10-12 <i>Prerequisite: Computer Programming OR PreAP Computer Programming</i> Weighted Credit <i>Local Certification Possible</i>	Computer Science II 1051CT / 9-12 <i>Prerequisite: Computer Science I</i> LOTE Credit		
Level 4	Practicum in Information Technology 1851CA-CB / 11-12 <i>Prerequisite: 2 courses in Information Technology OR STEM</i> <i>Oracle Certified Database Associate Certification Possible</i>			
1 Semester Home Campus	2 Semester Home Campus	1 Semester Ben Barber	2 Semester Ben Barber	College Course Weighted Credit
<i>The district will pay 100% of the cost of the certification test if students can show mastery by passing a certification practice test AND maintain an 80+ overall course grade at the time of the certification test. If students don't meet the requirements above, they must pay 100% of the cost of the certification test.</i>				
To earn an endorsement, an MISD student must complete a coherent sequence for 4 or more credits that consist of 2 courses in the same program of study including at least 1 advanced CTE course				
Project Lead the Way is a four year sequence of courses which, when combined with traditional mathematics and science courses in high school, introduces students to the scope, rigor, and discipline of engineering prior to entering college. However, those not intending to pursue further formal education will benefit greatly from taking some or all of the courses provided.				
Level I				
FOUNDATION OF CYBERSECURITY Course: 1856CT		Credits: 1	Placement: 9-12 Length: 18 weeks	
In the Foundations of Cybersecurity course, students will develop the knowledge and skills needed to explore fundamental concepts related to the ethics, laws, and operations of cybersecurity. Students will examine trends and operations of cyberattacks, threats, and vulnerabilities. Students will review and explore security policies designed to mitigate risks. The skills obtained in this course prepare students for additional study in cybersecurity.				
PRINCIPLES OF INFORMATION TECHNOLOGY Course: 1850CT		Credits: 1	Placement: 9-12 Length: 18 weeks	
Students develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students enhance reading, writing, computing, communication and reasoning skills and apply them to the information technology environment. Students investigate the vast wealth of career opportunities in the Information Technology field. Students learn beginning computer programming skills and the program design process.				
INTRODUCTION TO ENGINEERING DESIGN  Course: 1835CT		Credits: 1	Placement: 9-12 Length: 18 weeks	
Engineering is the practice of manipulating the natural world to fit our needs as humans. In this introductory course, students will learn the basics of design and communication so that they can understand and use the methods in which our designed world is created. Products are created, analyzed, and communicated using solid modeling design software. This class combines math, art, science, and group skills to prepare students for creative and exciting jobs. This course allows students the opportunity to earn transcribed college credit to articulate college credit hours upon high school graduation through participating college/university Tech Prep programs. This is a Project Lead the Way course.				
PRINCIPLES OF APPLIED ENGINEERING (Home Campus Only) Course: 1610A/B		Credits: 1	Placement: 9-12 Length: 36 weeks	
This course provides an overview of the following various fields: science, technology, engineering, and mathematics, and their relationships. Students will use a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will have an understanding of the various fields of study and will be able to make informed decisions regarding a coherent sequence of subsequent courses.				
Level II				
COMPUTER PROGRAMMING I Course: 1260CT		Credits: 1	Placement: 9-12 Length: 18 weeks	
In this hands-on course environment, students will learn the fundamentals of computer science and computer programming				

utilizing a high-level language such as C++ or Java. Students will learn programming methodologies, algorithm development, problem solving skills and the ethical and social considerations for the appropriate use of computer software and hardware throughout the course. Students will see how computer programs are used in industry and write basic programs utilizing similar techniques. Other fourth generation “learning” programming environments, such as Jeroo, will also be studied to help introduce and reinforce skills.

PRE-ADVANCED COMPUTER PROGRAMMING I 
Course: 1263CT

Credits: 1

Placement: 9-12
Length: 18 weeks

In this fast-paced, hands-on, advanced course environment (high-level programming problems), students will learn the fundamentals of computer science and computer programming utilizing a high-level language such as C++ or Java. Students will learn programming methodologies, algorithm development, problem solving skills and the ethical and social considerations for the appropriate use of computer software and hardware throughout the course. Students will see how computer programs are used in industry and write basic programs utilizing similar techniques. Other fourth generation “learning” programming environments, such as Jeroo, will also be studied to help introduce and reinforce skills.

COMPUTER SCIENCE I
Prerequisite: Algebra I
Course: 1050CT

Credits: 1

Placement: 9-12
Length: 18 weeks


Computer Science I will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts. This is a Project Lead the Way course. **Note: Course can be used as a LOTE credit for graduation.**

AP COMPUTER SCIENCE PRINCIPLES 
Prerequisite: Algebra I
Course: 1266CT

Credits: 1

Placement: 9-12
Length: 18 weeks

Students will learn about the computing tools that are used every day. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will learn the problem-solving and reasoning skills that are the foundation of computer science. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations and concepts.

PRINCIPLES OF ENGINEERING(Engineering Science) 
Prerequisite: Intro to Engineering AND Algebra I AND Biology AND Chemistry or IPC
Course: 1836CT

Credits: 1

Placement: 10-12
Length: 18 weeks

This course is designed to help students understand the field of engineering/engineering technology by exploring various technology systems and manufacturing processes. The activities and projects offered through this course are designed to help students learn how engineers and technicians use math, science, and technology in an engineering problem solving process. This course allows students the opportunity to earn transcribed college credit or to articulate college credit hours upon high school graduation through participating college/university Tech Prep programs. This is a Project Lead the Way course. **Note: Course can be used as an additional science credit for graduation.**

Level III

NETWORKING
Prerequisite: Computer Maintenance
Course: 1831CA/CB

Credits: 2

Placement: 11-12
Length: 36 weeks

This course provides the student with theory and hands-on experience. The students gain experience in resolving hardware and software conflicts. Students practice SCAN Skills (industry-defined employment skills). 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. To prepare for success, students will have opportunities to reinforce, apply and transfer knowledge and skills to a variety of settings and problems.

Possible Certification: CompTIA Network*

COMPUTER INTEGRATED MANUFACTURING **Prerequisite:** Principles of Engineering**Course:** 1838CT**Credits:** 1**Placement:** 10-12**Length:** 18 weeks

This course applies principles of robotics and automation. Students learn to program machinery to bring their 3D design while introducing computer programming and the processes used to manufacture today's consumer products. This course builds on the skills students develop in Introduction to Engineering Design and Principles of Engineering. Students use CNC equipment to produce actual models of their three-dimensional designs. Fundamental concepts of robotics used in automated manufacturing and design analysis are included. This course allows students the opportunity to earn transcribed college credit or to articulate college credit hours upon high school graduation through participating college/university Tech Prep programs. This is a Project Lead the Way course.

- ★ Students can earn a Certificate of Excellence by achieving a specific list of real world skills related to this course. For the list of skills, please visit goo.gl/9VM3a9

AEROSPACE ENGINEERING **Prerequisite:** Principles of Engineering**Course:** 1834CT**Credits:** 1**Placement:** 10-12**Length:** 18 weeks

Aerospace Engineering is the study of the engineering discipline which develops new technologies for use in aviation, defense systems and space exploration. The course explores the evolution of flight, flight fundamentals, navigation and control, aerospace materials, propulsion, space travel, orbital mechanics, ergonomics, remotely operated systems and related careers. In addition, the course presents alternative applications for aerospace engineering concepts. Students will analyze, design and build aerospace systems. While implementing these designs, students will continually hone their interpersonal skills, creativity and application of the design process. Students apply knowledge gained throughout the course in a final multi-media project to envision their future professional accomplishments. This is a Project Lead the Way course.

CIVIL ENGINEERING & ARCHITECTURE **Prerequisite:** Principles of Engineering**Course:** 1861CT**Credits:** 1**Placement:** 10-12**Length:** 18 weeks

Civil Engineering & Architecture is the study of the design & construction of residential & commercial building projects. The course includes an introduction to many of the varied factors involved in building design & construction including building components & systems, structural design, storm water management, site design, utilities & services, cost estimation, energy efficiency & careers in the design & construction industry. This is a Project Lead the Way course.

AP COMPUTER PROGRAMMING II **Prerequisite:** Computer Programming I or PreAP Computer Programming I**Course:** 1265CT**Credits:** 1**Placement:** 10-12**Length:** 18 weeks

This course is designed for the student who anticipates a career in a technological field, such as physical science, mathematics, engineering, or computer science. Students will learn object oriented programming concepts using the JAVA programming language. Object-oriented programming, including inheritance will be emphasized. Classic algorithms, programming control structures, advanced data structures and the AP Computer Science A case study will be examined. Upon completion of this course, students will be ready and encouraged to take the Advanced Placement Computer Science A Exam.

- ★ Students can earn a Certificate of Excellence by achieving a specific list of real world skills related to this course. For the list of skills, please visit goo.gl/9VM3a9

COMPUTER SCIENCE II**Prerequisite:** Computer Science I**Course:** 1051CT**Credits:** 1**Placement:** 9-12**Length:** 18 weeks

Computer Science II will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of computer science through the study of technology operations, systems, and concepts.

Note: Course can be used as a LOTE credit for graduation.**Level IV****PRACTICUM IN INFORMATION TECHNOLOGY****Placement:** 12

Prerequisite: 2 courses in Information Technology OR STEM

Course: 1851CA/CB

Credits: 2

Length: 36 weeks

This personalized independent study course will allow students interested in pursuing a career in information technology opportunities for advanced learning beyond the classroom environment. Students will engage in a variety of industry relevant experiences such as competition and or product innovation, classroom teaching opportunities, and/or advanced topics research and development. **If a student does not have transportation, opportunities will be limited.**

Possible Certification: Oracle Certified Database Associate*

EDU-DRONE I

Prerequisite: Algebra I AND Must be 16 years old with driver's license before end of the course

Course: 1860CT

Credits: 1

Placement: 11-12

Length: 18 weeks

This course allows students to develop a strong foundation in a critical work shortage field involving STEM and prepare for FAA certification to legally fly drones for commercial purposes — law enforcement and security, emergency response, aerial photography, land survey, utility inspection, and more.

Possible Certification: FAA Part 107 Remote Drone Pilot*

ENGINEERING DESIGN & DEVELOPMENT

Prerequisite: Computer Integrated Manufacturing OR

Aerospace Engineering OR Civil Engineering & Architecture

Course: 1845CT

Credits: 1

Placement: 11-12

Length: 18 weeks

This course will provide students with the opportunity to master the design process to solve a design problem of their choosing. They will use prior knowledge to develop, model test their solutions. Each team will present and defend their solutions to a panel of experts. This is a Project Lead the Way course.

 Weighted Credit

Supporting Courses

ROBOTICS I

Course: 1856CT

Credits: 1

Placement: 9-12

Length: 18 weeks

Students enrolled in this course will demonstrate knowledge and skills necessary for the robotic and automation industry. Through implementation of the design process, students will transfer advanced academic skills to component designs in a project-based environment. Students will build prototypes or use simulation software to test their designs. Additionally, students explore career opportunities, employer expectations and educational needs in the robotic and automation industry.

AC/DC ELECTRONICS

Course: 1841CT

Credits: 1

Placement: 10-12

Length: 18 weeks

Electronics is presented with hands on, high-tech approach that includes a computer-based module lab-learning environment. Students will, analyze, experiment and design circuits using direct current, alternating current theory and perform advanced electrical-electronic troubleshooting assignments using industry standard test equipment including oscilloscopes. This course covers fundamental math and science concepts needed in electronics. Radio transmitters and receivers are explored. The fundamental relationship of current, voltage, resistance, capacitance, inductance, and power is demonstrated through an application of the Ohm's, Power and Kirchhoff's Laws. Lab equipment includes Function generators, oscilloscopes and meters all labs require written reports. End of course design project includes the research, design, documentation and construction of a student created circuit.

Possible Certification: OSHA 10 Hours*

SOLID STATE ELECTRONICS

Prerequisite: AC/DC Electronics

Course: 1843CT

Credits: 1

Placement: 10-12

Length: 18 weeks

Advanced Electronics presents the type of electronics in many of today's high-tech devices. Solid-state theory (transistors, integrated circuits, numbering systems, logic gates, flip-flops) is introduced and practiced, as well as TTL and CMOS devices, digital logic, counters, registers, a/d and d/a converters and solid-state devices. It also reviews the advanced concepts of DC, AC Digital electronics, which include Fundamentals of semiconductor devices, which include diodes, common diode applications, BJT, Biasing Circuits, Amplifier principals, FETs, Op-Amps, Oscillators and Voltage Regulators. Labs include the use of power supplies, function generators, oscilloscopes and meters. All labs require written reports. The end of the course has a research and design component.

★ Students can earn a Certificate of Excellence by achieving a specific list of real world skills related to this course. For the list of skills, please visit goo.gl/9VM3a9



Business & Industry Endorsement
**Transportation, Distribution &
 Logistics**

Automotive

Levels	Courses	
Level 1	Automotive Basics 1800CT / 9-12 <i>SP2 Ethics & You in the Automotive Industry, SP2 Land That Job Certification Possible</i>	
Level 2	Energy, Power & Transportation Systems 1810CT / 9-12 <i>Prerequisite: Automotive Basics SP2 Bullying in the Workplace, SP2 Substance Abuse Awareness & Management Certification Possible</i>	
Level 3	Automotive Technology I 1811CA-CB / 10-12 <i>Prerequisites: Energy, Power & Transportation Systems ASE Maintenance & Light Repair, SP2 Mechanical Safety Certification Possible</i>	
Level 4	Automotive Technology II 1815CA-CB / 11-12 <i>Prerequisites: Automotive Technology I ASE Brakes AND ASE Suspension & Steering Certifications Possible</i>	Practicum in Transportation, Distribution & Logistics 1821CA-CB / 11-12 <i>Prerequisites: Automotive Technology I ASE Electrical/Electronics Systems Certifications Possible</i>

1 Semester Home Campus	2 Semester Home Campus	1 Semester Ben Barber	2 Semester Ben Barber	College Course Weighted Credit
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The district will pay 100% of the cost of the certification test if students can show mastery by passing a certification practice test AND maintain an 80+ overall course grade at the time of the certification test. If students don't meet the requirements above, they must pay 100% of the cost of the certification test.

To earn an endorsement, an MISD student must complete a coherent sequence for 4 or more credits that consist of 2 courses in the same program of study including at least 1 advanced CTE course

Level I

AUTOMOTIVE BASICS
 Course: 1800CT
 Credits: 1
 Placement: 9-12
 Length: 18 weeks

This course is designed to familiarize the student with the basic understanding of career opportunities and training requirements in the automotive services field. This provides the skills and knowledge required for employment in the automotive field. This is the first class of the ASE/NATEF Certified Automotive Training Program. Competencies are set per NATEF Task List. Application of the knowledge and skills will be provided through hands on experiences in the classroom and laboratory.
*Possible Certification: SP2 Ethics & You in the Automotive Industry AND SP2 Land that Job**

Level II

ENERGY, POWER & TRANSPORTATION SYSTEMS
 Prerequisite: Automotive Basics
 Course: 1810CT
 Credits: 1
 Placement: 9-12
 Length: 18 weeks

This course is designed to provide the skills and knowledge required for employment in the automotive field of brake and suspension systems. This class is the second part of 4 classes of the ASE/NATEF Certified Automotive Training Program. Competencies are set per the NATEF Task List. Application of the knowledge and skills will be provided through hands on experiences in the classroom and laboratory.
*Possible Certification: SP2 Bullying in the Workplace AND SP2 Substance Abuse Awareness & Management**

Level III

AUTOMOTIVE TECHNOLOGY I: MAINTENANCE & REPAIR
 Placement: 10-12

Prerequisite: Energy, Power, & Transportation Systems
Course: 1811CA/CB

Credits: 2

Length: 36 weeks

This course is a continuation of the ASE/NATEF curriculum and standards designed to prepare the student for an entry level position in the automotive technology field. The areas of instruction pertain to the Maintenance and Light Repair Certification of the NATEF Task List.

Possible Certifications: ASE Auto Maintenance & Light Repair AND SP2 Mechanical Safety*

Level IV

AUTOMOTIVE TECHNOLOGY II: AUTOMOTIVE SERVICE

Prerequisite: Automotive Technology I

Course: 1815CA/CB

Credits: 2

Placement: 11-12

Length: 36 weeks

This course prepares the student for an entry level position in the automotive technology field. The area of instruction include advanced components of the Maintenance and Light Repair Certification of the NATEF Task List. Placement in an internship may occur during the summer between a students' junior and senior year in a dealership or independent shop. Potential interns are chosen by the Business and Education Council Committee. Students must have all required safety wear as listed in the prerequisite class.

Possible Certification: ASE Brakes AND ASE Suspension & Steering*

PRACTICUM IN TRANSPORTATION SYSTEMS

Prerequisite: Automotive Technology I

Course: 1821CA/CB

Credits: 2

Placement: 11-12

Length: 36 weeks

This practicum course is an unpaid internship for students participating in the Automotive Technology courses. A student must have an Automotive Technology related job no later than the 2nd week after the start of class to receive credit. Students must adhere to all workplace rules and regulations and have a positive report from employers. **If a student does not have transportation, opportunities will be limited.**

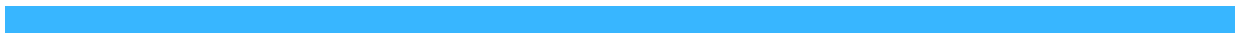
Possible Certifications: ASE Electrical/Electronic Systems*

***Students must successfully pass certification test(s) in order to receive the certification.**

VIII.

A small globe of the Earth, showing blue oceans and green continents, is balanced on top of an open book. The book is open to two pages, and the globe is centered over the gutter. The background is a plain, light-colored surface.

**STUDENT
APPLICATIONS &
WORKSHEETS**





Early (3-Year) Graduation Application

To be considered for early (3-year) graduation, this completed application must be returned to the student's counselor no later than the last day of the student's sophomore year. Early (3-year) graduates may participate in the prom and graduation exercises.

To apply for early (3-year) graduation, a student must meet the following criteria:

- The student must have earned a minimum of 19 credits prior to the first day of the student's junior year (final year of high school);
- The student must have passed all TEA required EOC exams prior to the last day of the student's junior year (final year of high school);
- If the student is participating in a correspondence course or taking a credit-by-exam, documentation of completion of the course/exam must be submitted to the student's counselor prior to the final day of the student's junior year (final year in high school) in order for the student to be considered an early (3-year) graduate.

Name _____ ID# _____

Class Rank _____ of _____ Grade Average _____

Date of Birth _____ Age _____

Parent or Guardian _____ Phone _____

Total number of credits earned by the end of the sophomore year _____

Courses needed to graduate:

_____	_____
_____	_____
_____	_____

Reason(s) for requesting early (3-year) graduation:

Student Signature _____ Date _____

Parent/Guardian Signature _____ Date _____

Counselor Signature _____ Date _____

Principal Signature _____ Date _____

**The principal's signature will be obtained by the counselor.*



Mid-Term Graduation Application

To be considered for mid-term graduation, this completed application must be returned to the student's counselor no later than the last day of the student's junior year. Mid-term graduates may participate in the prom and graduation exercises.

To apply for mid-term graduation, a student must meet the following criteria:

- The student must have earned a minimum of 23 credits prior to the first day of the student's senior year;
- The student must have passed all TEA required EOC exams prior to the first day of the student's senior year;
- If the student is participating in a correspondence course or taking a credit-by-exam, documentation of completion of the course/exam must be submitted to the student's counselor prior to the final day of the fall semester in order for the student to be considered a mid-term graduate.

Name _____ ID# _____

Class Rank _____ of _____ Grade Average _____

Date of Birth _____ Age _____

Parent or Guardian _____ Phone _____

Total number of credits earned by the end of the junior year _____

Courses needed to graduate:

_____	_____
_____	_____
_____	_____

Reason(s) for requesting mid-term graduation:

Student Signature _____ Date _____

Parent/Guardian Signature _____ Date _____

Counselor Signature _____ Date _____

Principal Signature _____ Date _____

**The principal's signature will be obtained by the counselor.*

High School Course Planning Worksheet

Based on Foundation with Endorsement DLA

Select the Endorsement you plan to take. Then, under the Endorsement, circle the Career Cluster you want to pursue. Under each career cluster there is a Program of Study. The individual courses are considered programs of study.

Multidisciplinary (4 Credits)

Core Subject Credits must include Eng IV &/or Physics
AP Credits and/or Dual Credit
Advanced Courses from other Endorsements

Arts and Humanities (4 Credits)

Art
Dance
Music
Theater
Social Studies (5 Credits)
LOTE (Same Language or 2 Credits from Different Languages)

Public Services (4 credits)

Health Science
Human Services
Education and Training
Law and Public Service
JROTC

STEM (4 Credits)

Science (5 credits) Must include Chemistry and Physics
Engineering
Math (5 credits)
Information Systems

Business and Industry (4 Credits)

Agriculture, Food, Natural Resources
Architecture & Construction
Arts, A/V Tech, & Communications
Business, Marketing, and Finance
Hospitality & Tourism
Information Systems
Manufacturing
Transportation, Distribution, & Logistics
Journalism, Broadcast Journalism Yearbook, Newspaper
Debate

Use the space below to write out the elective classes you'd like to schedule.

In order to pick your Endorsement classes, check Canvas for resources (BB Flow Charts or the MISD Course Guide).

Endorsement classes (4 total credits)				
Your Career Cluster & Program of Study:				
Language Other Than English (2 total credits) two classes of the same language				
PE (1 total credit) mix and match half credit PE or Athletics (Include Alternates)				
Fine Arts 1 Credit				
Mandatory Electives				
Professional Communications (Or TCC Speech)				
Health				
Additional Electives you MIGHT want to take (pay attention to prerequisites)				

High School Course Planning Worksheet

Use the space below to fill in the elective classes you wrote out on the previous page. Remember, Ben Barber classes take up TWO spots in the SAME semester (write them twice, one on top of the other). Year long, home campus classes need to be written in one space in the fall and one in the spring. **Also: Band and Athletics are double blocked along with some other co-curricular classes depending on campus.**

9 th Grade (Freshman)			
FALL		FALL	
1		5	
2		6	
3		7	
4		8	
SPRING		SPRING	
1		5	
2		6	
3		7	
4		8	
ALTERNATES: Choose up to 4			

10 th Grade (Sophomore)			
FALL		FALL	
1		5	
2		6	
3		7	
4		8	
SPRING		SPRING	
1		5	
2		6	
3		7	
4		8	
ALTERNATES: Choose up to 4			

11 th Grade (Junior)			
FALL		FALL	
1		5	
2		6	
3		7	
4		8	
SPRING		SPRING	
1		5	
2		6	
3		7	
4		8	
ALTERNATES: Choose up to 4			

12 th Grade (Senior)				
	FALL		FALL	
1		5		
2		6		
3		7		
4		8		
	SPRING		SPRING	
1		5		
2		6		
3		7		
4		8		
ALTERNATES: Choose up to 4				

<p>BUSINESS & INDUSTRY AGRICULTURE, FOOD, AND NATURAL 1101CT Prin Ag, Food & Nat. Res (9-12) 18 1103CT Wildlife, Fish & Eco Mgt (9-12) 18 1109CT Horticultural Science (10-12) 18 1110CT Floral Design (9-12) 18 1113/1114CT Equ Science/SmAnimal (9-12)18ea. 1115CT Livestock Production (10-12) 18 1116CT Adv. Animal Science (11-12) 18 1120CT Forest & Woodland Eco (10-12) 18 1122CT Ag Mechanics & Metal (10-12) 18 1123CT Ag Struc, Design & Fab (11-12) 18 1124CT Advanced Floral Design (11-12) 18 1135CA/B Prac in Ag (11-12) 36 1140CT Vet Medical App (11-12) 18 ARCHITECTURE & CONSTRUCTION 1512A/B Interior Design (9-12) HC 36 1660CT Arch Design I (10-12) 18 1665CA/B Arch Design II (11-12) 36 1668CA/B Prac in Arch Design (12) 36 1803CT HVAC I (10-12) 1804CA/B HVAC II (11-12) 1819CT Prin of Arch (9-12) 18 1820CA/B Construct Technology I (10-12) 36 1824CT Prin of Construction (9-12) 18 1825CA/B Construction Tech II (11-12) 36 1827CA/B Prac in Construction Tech (12) 36 0194 TCC Cons Res & Comm Blue Print (10-12) 0195 TCC CNBT (Construction I) (10-12) 0198 TCC Basic Cons Safety (11-12) 0199 TCC Cons Tech II (11-12)</p>	<p>TRANSPORTATION, DIST & LOGISTICS 1800CT Automotive Basics (9-12) 18 1810CT Energy, Power & Transport (9-12) 18 1811CA/B Automotive Technology I (10-12) 36 1815CA/B Automotive Techn II (11-12) 36 1821CA/B Prac in Transport Systems (11-12) 36 JOURNALISM (HOME CAMPUS) 5000 Journalism I (9-12) 5010 Photojournalism I (9-12) 5011 Photojournalism II (10-12) 5012 Photojournalism III (11-12) 5021 Newspaper I (10-12) 5031 Newspaper II (10-12) 5035 Newspaper III (11-12) 5051 Yearbook I (10-12) 5061 Yearbook II (10-12) 5071 Yearbook III (11-12) 5080 Broadcast Journalism I (9-12) 5081 Broadcast Journalism II (10-12) ENGLISH OPTIONS/ELECTIVES 0255 College INRW (12) 18 0225 College RWT (12) 18 0261 TCC Speech (10-12) 18 2270 Creative Writing (11-12) 2274 Public Speaking (9-12) 18 2275 Oral Interpretation I (9-12) 2279 Oral Interpretation II (9-12) 2280 Oral Interpretation III (9-12) 2277 Literary Genres A (9-12) 18 2281 Literary Genres B (10-12) 18 2300 Intro to Debate (9-12) 2311 Competitive Debate I (10-12) 2321 Competitive Debate II (10-12) 2331 Competitive Debate III (10-12)</p>	<p>1861CT Civil Engineering/Arch (PLTW) (10-12)18 SCIENCE OPTIONS/ELECTIVES 1116CT Adv. Animal Science (11-12) 18 1836CT Prin of Engineering (PLTW) (10-12) 18 8073 AP Chemistry (11-12) 8083 AP Biology (11-12) 8094 AP Environmental Science (11-12) 8095 AP Physics I (11-12) 8096 AP Physics 2 (11-12) 8097 AP Physics C: Mechanics (11-12) 8098 AP Physics C: Electricity (11-12) 8100/0810CT Anatomy & Physiology (11-12) 8145 Environmental Systems (11-12) 8170 Astronomy (11-12) 0940 TCC Biology (12) 0942 TCC Geology (11-12) 18 MATH OPTIONS/ELECTIVES 1224CT Financial Math (10-12) 18 1271CT Accounting I (10-12) 18 6060 Math Models (11-12) 6067 Statistics (11-12) 6090 Adv. Quantitative Reasoning (11-12) 6095 Algebraic Reasoning (10-12) 6150 Pre-Calculus (11-12) 6160 Pre-AP Pre-Calculus (11-12) 6201 AP Calculus AB (12) 6202 AP Calculus BC (12) 6203 AP Statistics (11-12) 0610 TCC College Algebra (12) 18 0611 TCC Math for Business I (12) 18 0612 TCC Math for Business II (12) 18 0614 TCC Statistics (12) 18 0617 TCC Pre-Calculus (12) 18 0618 College Readiness Math (12) 18 0619 College Readiness Math II (12) 18</p>	<p>7113BB Pre-AP German II (10-12) 7123BB Pre-AP German III (10-12) 7140BB AP German IV (11-12) 7300BB Spanish I (9-12) 7310BB Spanish II 7320BB Pre-AP Spanish II (9-12) 7340BB Pre-AP Spanish III (9-12) 7400BB Latin I (9-12) 7410BB Latin II (9-12) 7413BB Pre-AP Latin II (9-12) 7423BB Pre-AP Latin III (10-12) 7430BB AP Latin IV (10-12) 7500BB Chinese I (9-12) 7510BB Chinese II (9-12) 7513BB Pre-AP Chinese II (9-12) 7523BB Pre-AP Chinese III (10-12) 7530BB AP Chinese IV (10-12) 7600BB American Sign Lang I (9-12) 7610BB American Sign Lang II (9-12) 7620BB American Sign Lang III (10-12) 7630BB American Sign Lang IV (10-12) 0760 TCC Amer Sign Lang I @ BB (10-12) 0761 TCC Amer Sign Lang II @ BB (10-12) 0762 TCC Amer Sign Lang III@ BB (10-12) 0763 TCC Amer Sign Lang IV @ BB (10-12) 7700BB Japanese I (9-12) 7710BB Japanese II (9-12) 7713BB Pre-AP Japanese II (9-12) 7720BB Pre-AP Japanese III (10-12) 7730BB AP Japanese IV (10-12) LOTE HOME CAMPUS 7000 French I (9-12) 7010 French II (10-12) 7013 Pre-AP French II (10-12) 7023 Pre-AP French III (11-12) 7033 AP French IV (12) 7300 Spanish I (9-12) 7310 Spanish II (9-12) 7320 Pre-AP Spanish II (9-12) 7340 Pre-AP Spanish III (9-12) 7360 AP Spanish IV (9-12) 7385 SMS II/SPAN I & II (9-12) 7390 SMS III/SPAN III (9-12) SOCIAL STUDIES OPTIONS/ ELECTIVES 9120 AP Gov & Politics 9151 AP Micro Economics 9170 Psychology (11-12) 18 9173 AP Psychology (11-12) 18 9180 Sociology (11-12) 18 9185 Women in Amer-History (11-12) 18 9186 Hebrew Script & New Test.(11-12) 18 9187 African Amer. History (11-12) 18 9190 Personal Financial Literacy (10-12) 18 9200 AP European History (11-12) 0911/0912 TCC Govt Fall/Spring (12) 18 0914 TCC TX Gov (12) 18 0915/0916 TCC Econ Fall/Spring (12) 18 0970 TCC Psychology (11-12) 18 0980 TCC Sociology (11-12) 18</p>
<p>ARTS, A/V TECHNOLOGY & COMM 1269CT Video Game Design (9-12) 18 1273CT Video Game Programming (10-12) 18 1274CT Adv. Video Game Prog. (10-12) 18 1280CT Digital Media (9-12) 18 1511A/B Fashion Design I (10-12) HC 36 1515CT/1711CT Fash Mark/Advertis (9-12) 18 1516A/B Fashion Design II (10-12) HC 36 1869CT A/V Production I(9-12) 18 1871CA/B A/V Production II(10-12) 36 1873CA/B Prac in A/V Prod (11-12) 36 1875CA/B TV Studio Production (11-12) 36 1877CA/B Sports Broadcasting (11-12) 36 1880CT Digital Audio Tech I (9-12) 18 1884CA/B Prac in Comm Photo (11-12) 36 1885CT Digital Audio Tech II (10-12) 18 1887CA/B Prac in Audio Tech (11-12) 36 1888CA/B Commercial Photo II (10-12) 36 1889CA/B Commercial Photo I & Lab (10-12) 36 1890CT Prin of Arts, A/V & Comm (9-12) 18 1891CA/B Graphic Design I & Lab (10-12) 36 1893CA/B Graphic Design II (10-12) 36 1895CA/B Animation II (10-12) 36 1897CA/B Animation I & Lab (10-12) 36 1898CA/B Prac in Animation (11-12) 36 1899CA/B Prac in Graph Design (11-12) 36</p>	<p>PUBLIC SERVICES EDUCATION & TRAINING 1505A/B Prin of Human Ser (9-12) HC 36 1520A/B Child Development (9-12) HC 36 1531CA/B Inst Pract in Education (11-12) 36 1535CA/B Prac in Education (12) 36 1536A/B Prin of Educ and Train (9-12) HC 36 1537CT Hum Growth & Dev (10-12) 18 HUMAN SERVICES 1220 Dollars & Sense (9-12) HC 18 1505A/B Prin of Human Ser (9-12) HC 36 1513 Lifetime Nutri & Well (9-12) HC 18 1514A/B Counsel & Men Health (11-12) HC 36 1517 Interpersonal Studies (9-12) HC 18 1520A/B Child Development (10-12) HC 36 1537CT Hum Growth & Dev (10-12) 18 2246 Professional Communications (9-12) HC 18 LAW, P SAFETY, CORREC & SECURITY 1215CT Business Law (11-12) 18 9400CT Prin of Law, PS, Cor, & Sec (9-12) 18 9410CT Law Enforcement I (9-12) 18 9411CT Criminal Investigation (10-12) 18 9415CT Court Sys & Practices (10-12) 18 9416CT Adv Court Systems (11-12) 18 9420CT Law Enforcement II (10-12) 18 9422CA/B Prac in Law, Cor & Sec (11-12) 36 9430CT Forensic Science (11-12) 18 9431CT Forensic Psychology (11-12) 18 9440CT Correctional Services (12) 18 9450CT Fed Law Enf & Pro Svcs. (9-12) 18</p>	<p>ARTS & HUMANITIES ENDORSEMENT FINE ARTS Art 1110CT Floral Design (9-12) 18 3100 Art I (9-12) 3105 Partners in Art (10-12) 3110 Art II (10-12) 3115 Art II Ceramics (10-12) 3120 Pre-AP Art II (10-12) 3130 Art 3/4 (10-12) 3131 Art III Drawing (10-12) 3132 Art III Painting (10-12) 3133 Art III Ceramics (10-12) 3134 Art III Sculpture (10-12) 3135 Art III Photo (10-12) 3136 Art IV Drawing (11-12) 3137 Art IV Painting (11-12) 3138 Art IV Ceramics (11-12) 3139 Art IV Sculpture (11-12) 3140 Art IV Photo (11-12) 3145 AP Studio: Drawing (11-12) 3133 Art III Ceramics (10-12) 3134 Art III Sculpture (10-12) 3135 Art III Photo (10-12) 3136 Art IV Drawing (11-12) 3137 Art IV Painting (11-12) 3138 Art IV Ceramics (11-12) 3139 Art IV Sculpture (11-12) 3140 Art IV Photo (11-12) 3145 AP Studio: Drawing (11-12) 3146 AP Studio: 2D (11-12) 3147 AP Studio: 3D (11-12) 3150 AP Art History 0335 TCC Art History (11-12) 0332 TCC Art Drawing (11-12) Band 3230 AP Music Theory 3241-3244 March Band I-IV 3251-3254 Band I-IV 3290-3293 Colorguard 3290S-3293S Winterguard 0333 TCC Music (11-12) Choir 3205-3208 Choir I-IV 3225-3228 Men's Ensemble I-IV 3235-3238 Women' Ensemble-I-IV Theater Arts 3400 Theater Arts I (9-12) 3410 Musical Theater (9-12) 3420 Theater Arts II (10-12) 3430 Theater Arts III (11-12) 3440 Theater Arts IV (11-12) 3451 Theater Production (10-12) 3452 Theater Production II (10-12) 3453 Theater Production III (10-12) 3460 Technical Theater I (10-12) 3461 Technical Theater II (10-12) 3462 Technical Theater III (10-12) 0334 TCC Drama (11-12)</p>	<p>9190 Personal Financial Literacy (10-12) 18 9200 AP European History (11-12) 0911/0912 TCC Govt Fall/Spring (12) 18 0914 TCC TX Gov (12) 18 0915/0916 TCC Econ Fall/Spring (12) 18 0970 TCC Psychology (11-12) 18 0980 TCC Sociology (11-12) 18 ATHLETICS 4031-4034 Athletic Trainer (9-12) 4039 Sports Medicine (9-12) 18 4085 Cheer I (1 credit PE) (9-12) 4083,4084,4091 Cheer II-IV (local credit) 4101 9th Girls BB/4102 9th Girls VB 4111-4114 Girls Volleyball (9-12) 4121-4124 Girls Basketball (9-12) 4151-4154 Girls Soccer (9-12) 4161-4164 Girls Softball (9-12) 4171-4174 Girls CC/Track (9-12) 4201-4204 Boys BaseBall (9-12) 4211/4212 9th Boys Footbal/Basketball (9) 4221-4224 Boys Basketball (9-12) 4251-4254 Boys JV/V Football (9-12) 4261-4264 Boys Soccer (9-12) 4281-4284 Boys CC/Track (9-12) 4301-4304 Boys & Girls Golf (9-12) 4321-4324 Tennis (9-12) 4331-4334 Swimming (9-12) HEALTH/PE 4000 Health (9-12) 4001-4004 PE (9-12) 4005 Partners in PE (10-12) 18 4010-4011 Beg/Inter Swim (9-12) 18 9601-9607 JROTC (PE Substitution) 3241-3244 Marching Band (PE Substitution) 4085 Cheer I (1 credit PE) (9-12) 4071-4074 Var Drill Team (yr 1 counts as PE) 4081 JV Drill Team (yr 1 counts as PE)</p>
<p>BUSINESS, MARKETING & FINANCE 1201 Global Bus (10-12) HC 18 1201CT/1202CT Glo Bus/Human Res (10-12) 18 1202 Human Resources (10-12) HC 18 1203 Virtual Business (9-12) HC 18 1211 Touch Syst Data En (9-12) HC 18 1215CT Business Law (9-12) 18 1216CT Bus Management (10-12) 18 1224CT Financial Math (10-12) 18 1225CT Securities & Invest (11-12) 18 1226 Bank & Financial Service (9-12) HC 18 1227CT Financial Analysis (11-12) 18 1230CT Money Matters (9-12) 18 1240A/B Business Info Mgmt I (9-12) HC 36 1250A/B Business Info Mgmt II (10-12) HC 36 1251CA/B Prac in Bus Mgmt (11-12) 36 1271CT Accounting I (10-12) 18 1272CT Accounting II (11-12) 18 1364CA/B Prac in Marketing (11-12) 36 1367CTAdvanced Marketing (11-12) 18 1515CT/1711CT Fash Mark/Advertis (10-12) 18 1715CT Prin of BMF (9-12) 18 1720CT Entrepreneurship (10-12) 18 1721CT Entrepreneurship II (10-12) 18 1725CT/1727CT Sports Mrk/Soc Med (9-12) 18</p>	<p>HEALTH SCIENCE 0810CT Anat & Phy (11-12) 18/ 8100 HC 36 1240A/B Business Info Mgmt I (9-12) HC 36 1410CT Prin of Health Science (9-12) 18 1411CT Health Science Theory (10-12) 18 1413CA/B Patient Care Tech (12) 36 1421CA/B Pharmacy Technician (12) 36 1424CT Phlebotomy (12) 18 1426CT EKG/ECG (11-12) 18 1431CA/B Clinical Internship (12) 36 1442CT World Health Research (11-12) 18 1443CT Medical Terminology (9-12) 18 1451CA/B Emergency Medical Tech (12) 36 1460CT Medical Coding & Billing (11-12) 18 1471CT Certified Nursing Aide (12) 18 8120CT Medical Microbiology (11-12) 18 8125CT Pathophysiology (11-12) 18</p>	<p>JROTC 9601 JROTC I 9603 JROTC II 9605 JROTC III 9607 JROTC IV STEM ENDORSEMENT SCIENCE, TECH, ENGINEERING, & MATH 1050CT Comp Science I (PLTW) (9-12)18 1051CT Comp Science II (9-12)18 1260CT Computer Programming I (9-12) 18 1263CT PAP Computer Prog I (9-12) 18 1265CT AP Comp Programming II (10-12) 18 1266CT AP Comp Science Principles (9-12) 18 1610A/B Princ of App Engineer (9-12) HC 36 1831CA/B Networking (10-12) 36 1834CT Aero Engineering (PLTW) (10-12) 18 1835CT Intro to Engineering Design (9-12) 18 1836CT Prin of Engineering (PLTW) (10-12) 18 1838CT Comp Int. Manufact (PLTW) (10-12) 18 1841CT AC/DC Electronics (10-12) 18 1843CT Solid State Electronics (10-12) 18 1845CT Eng Design & Dev (PLTW) (11-12) 18 1850CT Prin of Info Tech (9-12) 18 1851CA/B Prac in Info Technology (12) 36 1853CT Foundations of Cybersecurity (9-12) 18 1856CT Robotics I (9-12) 18 1860CT Edu Drone I (11-12) 18</p>	<p>4081 JV Drill Team (yr 1 counts as PE) SPECIAL PROGRAMS 1010, 1015, 1020, 1025 AVID I - AVID IV 9601, 9603, 9605, 9607 JROTC I-IV 9800 Ind Study Local credit (11-12) 9700 Teen Leadership I (9-12) 9705 Teen Leadership II (11-12) Local 9710 Community Service (11-12) 9730 Student Gov. & Lead (11-12) 2340 Academic Decathlon (10-12) 9993 Virtual / 9995 Cred Recovery 9740 Office Assistant (12) Local 2251/2252 PSAT/SAT/ACT/III (10-12) Local 18 NO CREDIT (SENIOR RELEASE) 9531 1st Period Release (12) 9532 5th Period Release (12) 9541 4th Period Release (12) 9542 8th Period Release (12)</p>