



MOUNT PLEASANT HIGH SCHOOL

COURSE GUIDE 2026-2027

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ASSURANCE OF NONDISCRIMINATION

Mt. Pleasant Independent School District does not discriminate on the basis of race, religion, color, national origin, sex, or handicap in providing education services. Mr. Judd Marshall, Superintendent, has been designated to coordinate compliance with the discrimination requirements of the Title IX and the nondiscrimination requirements of Section 504 of the Rehabilitation Act of 1973, as amended.

INTRODUCTION

This course description guide provides a brief description of each course offered at Mt. Pleasant High School, lists prerequisites and special requirements, and includes credits required for graduation. Since students will be making selections for the entire year, it is imperative that parents and students work together during this process. A thorough review of the graduation requirements, various transcript options, course prerequisites, and policies regarding schedule changes are essential. As always, the high school Administration and staff will help students make the best possible choices. Counselors will contact students if enrollment numbers for any class is not met.

SCHEDULE CHANGES

Schedule changes are discouraged. Please request changes within the first 5 school days of each semester. **Credit will not be awarded after 10% of the days in each semester have been missed if a student changes a course or enters without having been enrolled in another school.** Changes will be approved only under the following circumstances: *Completion of a scheduled course by alternate means (Credit by Exam, summer school, correspondence courses, and college credit). *Level changes (transferring from Advanced to Regular classes). *Failure of course prerequisite to a scheduled course. *Change in the senior year to a course required for graduation. *Removal of a scheduled course from the school schedule. *Extenuating circumstances reviewed by the Counselor and approved by the Principal. Administration reserves the right to not offer a class if too few students request a course.

GRADUATION REQUIREMENTS

All students must earn credits for state-required subjects and electives as described on the following pages. Students must pass the State of Texas Assessments of Academic Readiness End of Course exams (STAAR EOC) for five subjects: English I, English II, Algebra I, Biology, and U.S. History. Please contact the Counseling Office at 903-575-2020 if more information is needed.

EARLY GRADUATES

A student who intends to graduate early must declare that intention within the first week of school at the beginning of the Sophomore year. Students and parents must sign an early graduation letter that can be obtained from your Counselor. Early graduates must meet MPHS graduation requirements in 3 years and must pass all portions of exit level testing in order to be declared a graduate. If early graduates have 20 credits at the beginning of the junior year, they will be promoted to senior status at that time. Otherwise, they will be promoted at mid-year. Early graduates will be ranked with the senior class after the 5th six weeks. They will be allowed to participate in senior activities whenever they are promoted to senior status. Careful consideration should be given that early graduates will be forfeiting their senior year. These students will be expediting the college entrance process and should therefore begin preparing for college by taking entrance exams their Sophomore year and applying for financial aid by the fall of the junior year. For more information, students should see their Counselor.

Mt. Pleasant High School Graduation Requirements

Subject Area	Foundation High School Program with an Endorsement	Foundation High School Program with Distinguished Level of Achievement
English-4 Credits	English I, II, III, & IV	English, I, II, III, & IV
Math—4 Credits	<p>MUST INCLUDE: Algebra I, Geometry and two additional credits in advanced math</p> <ul style="list-style-type: none"> • Math Models • Algebra II • Pre-Calculus • AP Statistics • Calculus DC • Advanced Quantitative Reasoning • Accounting II 	<p>MUST INCLUDE: Algebra I, Geometry, Algebra II and one additional credit in advanced math</p> <ul style="list-style-type: none"> • Math Models • Pre-Calculus • AP Statistics • Calculus DC • Advanced Quantitative Reasoning • Accounting II
Science-4 Credits	<p>MUST INCLUDE: Biology, Chemistry, and 2 credits must be selected from the following laboratory-based courses</p> <ul style="list-style-type: none"> • Environmental Systems • Physics • AP Physics C • Anatomy & Physiology • Forensic Science • Advanced Animal Science • Research & Design • Environmental Science AP • Biology DC 	<p>MUST INCLUDE: Biology, Chemistry, and 2 credits must be selected from the following laboratory-based courses</p> <ul style="list-style-type: none"> • Environmental Systems • Physics • AP Physics C • Anatomy & Physiology • Forensic Science • Advanced Animal Science • Research & Design • Environmental Science AP • Biology DC
Social Studies—4 Credits	World Geography, World History, U.S. History, Economics (.5 credit) & U.S. Government (.5 credit)	World Geography, World History, U.S. History, Economics (.5 credit) & U.S. Government (.5 credit)
Fine Arts	1 Credit	1 Credit
*Entrepreneurship I	1 Credit	1 Credit
Languages other than English — 2 Credits	2 Credits of the same language	2 Credits of the same language
Physical Education	1 Credit	1 Credit
Electives — 5 credits	May Include CTE or certification courses. Credit requirement specific to at least one endorsement.	May Include CTE or certification courses. Credit requirement specific to at least one endorsement.
TOTAL	26 Credits (Including an Endorsement)	26 Credits (Including an Endorsement)
<p>Note: Any required courses do include the regular, Honors or AP courses. Please consult your Counselor for individual campus availability. *Entrepreneurship I has replaced Freshman Skills and is required of all Freshmen at MPHS to take, but is not a State mandated course*</p>		

Foundation High School Program

Endorsement Requirements

Arts & Humanities: (see below)

- LOTE (4 credits) Spanish I—IV
- Fine Arts (4 credits) a coherent sequence from 1 or 2 of the following: Choir, Band, Theatre, Dance, Art

Business & Industry: (4 credits from below)

- English Language Arts (4 credits, must include a 3-level sequence from Debate)
- CTE Cluster (4 credits including 2 from same cluster, 1 advanced course, +1) Clusters include:
 - * Ag, Food & Natural Resources
 - * Arts, Audio/Video Technology & Communication
 - * Business, Finance, & Marketing
 - * Construction
 - * Culinary Arts
 - * Fashion Design
 - * Information Technology
 - * Manufacturing
 - * Transportation, Distribution, and Logistics
 - * Cosmetology

Multidisciplinary: (4 credits from below)

Foundation areas of English, Math, Science, and Social Studies (must have 4 credits in each and must include English IV, Chemistry and/or Physics)

Public Services: (4 credits from the clusters below—2 from one cluster, 1 advanced course, +1)

- Education & Training
- Law Enforcement
- Health Sciences

STEM: *Foundation must include: Algebra II, Chemistry, and Physics*

- CTE (4 credits in coherent sequence from the Engineering cluster)
- Math (5 credits) Algebra I, Geometry, Algebra II, +2 for which Algebra II is a prerequisite
- Science (5 credits) Biology, Chemistry, Physics, +2

Foundation High School Program

Performance Acknowledgements

A student may earn a Performance Acknowledgement for outstanding performance:

- * In dual credit courses
- * In bilingualism and biliteracy
- * On an AP test
- * On the PSAT, the SAT, or the ACT
- * For earning a nationally or internationally recognized business or industry certification or license. See your Counselor or CTE Director for a list of approved certifications or licenses

A student may earn a Performance Acknowledgement on the student's transcript for outstanding performance in dual credit courses by completing:

- * At least 12 hours of college academic courses, including those taken for dual credit as part of the Texas core curriculum, and advanced technical courses, with a grade of the equivalent of 3.0 or higher on a 4.0 scale **OR**
- * An Associate Degree while in high school

A student may earn a Performance Acknowledgement in bilingualism and biliteracy by demonstrating proficiency in accordance with MPISD grading policy in two or more languages by:

- * Completing all English language arts requirements and maintaining a minimum grade point average (GPA) of the equivalent of 80 on a scale of 100; **AND**
- * Completion of a minimum of three credits in the same language in a language other than English with a minimum GPA of the equivalent of 80 on a scale of 100
- * In addition to the above two requirements to earn a Performance Acknowledgement in bilingualism and biliteracy, an English Language Learner must also have:
 - *Participated in and met the exit criteria for a bilingual or English as a second language (ESL) program; **AND**
 - *Scored at the Advanced High level on the Texas English Language Proficiency Assessment System (TELPAS)

A student may earn a Performance Acknowledgement on the student's transcript for outstanding performance on a College Board Advanced Placement test by earning a score of 3 or above.

A student may earn a Performance Acknowledgement on the student's transcript for outstanding performance on the PSAT, the SAT, or the ACT by:

- * Earning a score on the Preliminary SAT/National Merit Scholarship Qualifying Test (PSAT/NMSQT) that qualifies the student for recognition as a commended scholar or higher by the College Board and National Merit Scholarship Corporation, as part of the National Hispanic Recognition Program (NHRP) of the College Board or as part of the National Achievement Scholarship Program of the National Merit Scholarship Corporation
- * Earning a total score of at least 1350 on the SAT; **OR**
- * Earning a composite score on the ACT examination of 29 (excluding the writing sub score).

SPECIAL PROGRAMS

Advanced Placement Courses

An Advanced Placement (AP) course is a **college-level** course taught on a high school campus by a high school teacher for a high school grade. The purpose of an AP course is ultimately to prepare the student for the AP Exam in the field of study. The Advanced Placement (AP) Program is sponsored by the College Board and administered by Educational Testing Service. Students can receive college credit by passing an AP EXAM. Students may take the AP class and not take the exam. Numerous colleges and universities participate in the AP program. Each college or university determines its own credit and placement policy. MPHS offers AP courses in the areas of Math, Science, Music Theory, and Portfolio Art. Students enrolling in AP courses should consult the guidelines and requirements for those programs.

AP Courses

Statistics AP	AP Spanish Language	AP Studio Art Drawing
World History AP	AP Spanish Literature	AP Studio Art (2D)
AP Environmental Science		AP Studio Art (3D)
AP Physics C		AP Music Theory

Honors Courses

Honors courses are advanced courses designed to better prepare students for college. These courses are more rigorous than the regular courses. Honors courses are weighted as 7 point courses on the weighted GPA scale.

English I Honors	Biology Honors	World Geography Honors
English II Honors	Chemistry Honors	World History Honors
English III Honors	Physics Honors	U.S. History Honors
English IV Honors	A&P Honors	Spanish I, II, III & IV Honors
Geometry Honors	Forensic Science Honors	Production Theatre III & IV Honors
Algebra II Honors	Scientific, Research & Design Honors	Technical Theatre III & IV Honors
Pre-Cal Honors		Art III & IV Honors

Correspondence Courses

Students are allowed to earn credit through correspondence courses. Courses are designed around the required course curriculum outlined and approved by TEA. If transcripts from TTU have not been received by the end of the Sophomore year for languages other than English, the student will be placed in a Language course their Junior year. Graduating students enrolled in correspondence courses to earn credits for graduation shall complete the course and submit the grade for recording at least 30 days prior to graduation in order to be eligible for graduation in May. A maximum of two (2) courses may be earned through correspondence. Correspondence courses may be taken only through Texas Tech University. Prior approval of the Counselor must be obtained in order to receive credit through correspondence. The student or parent must pay the cost of each course. MPISD does not fund the cost of these courses. Correspondence courses will not earn grade points for ranking purposes.

Dual Credit Classes

Students are enrolled in a high school class, which may be taught by a college instructor or by a high school instructor employed by the college. The class can be located on the high school campus or at NTCC and must meet and exceed the Texas Essential Knowledge and Skills (TEKS) of the State Board of Education (SBOE). The college also grants credit for having completed the course. Students and/or parents assume full financial responsibility for the cost (lab fees, books, etc.) of dual enrollment classes. This includes tuition, fees, books, materials, travel, and any other related costs. Dual enrollment classes are open to sophomores, juniors, and seniors. Approved dual credit courses are: Government (Federal Government), Economics (Principles of Macroeconomics), U.S. History (U.S. History I & II), English III (English Composition I & II), English IV (1st time taking Dual English—English Composition I & II; 2nd time taking Dual English—British Literature I & II) English IV (Technical & Business Writing), Algebra II (College Algebra), Pre-Calculus (College Pre-Calculus), Calculus (Calculus I & II), Chemistry II (Introductory Chemistry I & II), Biology, Physics (General Physics I & II), Psychology (Intro to Psychology), Sociology (Intro to Sociology), Auto Technology I & II, Electrical Technology II, Practicum in Electrical Technology, Advanced Legal Studies, Practicum in Health Science II—Medical Assisting, Practicum in Education and Training, and Practicum in Agriculture—Animal Science (Intro to Animal Science). No other course work completed at the college will be recorded on the high school transcript or given grade points for ranking purposes. Students wishing to receive accommodations in a dual credit class must contact NTCC.

For the 2026—2027 school year, MPISD will pay dual credit tuition for students enrolled in an academic NTCC/MPISD dual credit course during the school day, if the student is in good standing with the high school. Please note that MPISD pays **only student tuition**, other costs such as any fees or textbooks will still be the responsibility of the student.

The qualifications to be in good standing are:

1. A student must not have withdrawn from a MPISD funded dual credit class after the deadline for a full refund and
2. The student must have passed all previous dual credit courses, with a 70, taken through this program.
3. Students must be traditionally enrolled in high school courses, meaning they attend classes on campus and are not exclusively homeschooled, virtual, or enrolled in an alternative non-traditional program.

If a student falls out of good standing, they may regain it by refunding the tuition to MPISD for the course. Any student may also pay their own tuition for any board approved dual credit course regardless of their standing in this program.

To be eligible for a Dual Credit class, a student must meet the minimum college readiness standards, set by Texas Administrative Code for Math and/or Reading/Writing TSIA2 test by the end of the school year preceding the year they wish to take a Dual Credit class.

Dual Credit Classes Assignments & Make-up Work

- Dual Credit Courses offered through Northeast Texas Community College will follow the policies in the partnership agreement between the college and Mt. Pleasant High School. Northeast Texas Community College courses offered as dual credit, regardless of where they are taught, follow the syllabus, course outline, grading method, drop and add procedures, and other academic policies as outlined in the Northeast Texas Community College catalog.
- Assignments are due on a designated date. The student's work is due to the teacher at this time. A major assignment will be made at least 3 weeks before the due date and will include a sample of good work. The assignment will also include intermediate steps to be completed and checked at intervals of no more than two weeks. Assignments may be accepted early.
- Students will have one day to make up work for each day absent, with a maximum of ten days, before make-up work is due. Work assigned prior to the absence and due on the day of absence is due the day the student returns to school. It is the student's responsibility to request missed assignments.
- A student will be permitted to make up tests and to turn in projects due in any class missed because of absence. Secondary teachers may assign a late penalty to any project in accordance with time lines approved by the Principal and previously communicated to students.
- For any class missed, the teacher may assign the student make-up work based on the instructional objectives for the subject or course and the needs of the individual student in mastering the Texas Essential Knowledge and Skills/End of Course Examinations or in meeting subject or course requirements. A student will be responsible for obtaining and completing the make-up work in a satisfactory manner and within the time specified by the teacher. A student who does not make up assigned work within the time allotted by the teacher will receive a grade of zero for the assignment.
- Students absent on the day of a test must take the test THE DAY they return to school. Students will not be able to make up tests during other teachers' class times. It is at the teacher's discretion when a student makes up a test.

English as a Second Language Program

Students currently enrolled in the MPHS ESL program vary in their understanding and command of the English Language. English Language proficiency is measured in the areas of listening, speaking, reading, and writing. The secondary ELL student must contend with the acquisition of English language skills in order to be successful in classes and meet MPHS graduation requirements. The ESL program and its courses have been carefully designed to provide support for ELL students, with the expectation of academic success. The course schedule for a beginning ELL student will differ from the course schedule for an advanced ELL student.

ESL course offering descriptions can be located within the core course offering sections as listed below:

- * Language Arts: English I ELL & English II ELL

NCAA Academic Requirements

NCAA regulations stipulate that all academic “core” courses must be completed during high school for eligibility in Division I or Division II college athletics. Remedial and below-level courses do not qualify as “core” courses. Students attending all four years of high school at MPHS will meet the “core” requirements when they graduate under the Foundation High School Program with an Endorsement or the Foundation High School Program with Distinguished Achievement. NCAA Division I and Division II college eligibility requirements also include varying ACT/SAT and “core” course requirements. In order to meet NCAA requirements a student must have at least a 70 average each semester in core courses. Athletes need to register with the NCAA during their junior year. Students may register on-line at www.ncaaclearinghouse.com. NCAA approved courses are listed below:

English

Debate
English I
English II
English III
English IV

Social Studies

Economics
Psychology
Sociology
U.S. Government
U.S. History
World History
World Geography

Natural/Physical Science

Anatomy & Physiology
Biology I
Biology DC
Chemistry I
Chemistry II
Environmental Systems
Physics
Astronomy
Forensic Science
AP Physics C
Scientific Research & Design
Environmental Science AP
IPC

Math

Algebra I
Algebra II
Geometry
Pre-Calculus
Calculus AP
Statistics AP
AQR

Additional Courses

Spanish I, II, III, & IV

Texas Scholars—The MPHS Texas Scholars Program is designed to recognize students who exhibit excellence through academics and community service.

Texas Scholar Requirements

- Foundation High School Program with Distinguished Achievement and one Performance Acknowledgement along with 8 hours of community service each year.
- Students must be enrolled and complete a full schedule on the MPHS campus and are subject to a disciplinary and attendance review.
- The community service hours cannot be the same hours used for other organizations on campus such as NHS, NTHS, or Student Council.

Testing Programs

AP Exams

Advanced Placement Exams are given on prescribed dates in May of each year. Advanced Placement Exams are sponsored by the College Board and allow students the opportunity to earn credit for college level work while still in high school. Advanced Placement (AP) courses are offered to prepare students for the AP Exams. Students may earn a Performance Acknowledgement by scoring a three (3) or better on an AP Exam. Fee required.

ASVAB

Armed Services Vocational Aptitude Battery is given to students to assist them in career planning. The ASVAB is administered on the high school campus at no cost to the students who sign up.

Credit-by-Exam for Acceleration (No Formal Prior Instruction)

A student in any grade (1st thru 12th) may use examinations in lieu of course work for acceleration to advance one grade level or to earn credit in an academic subject. Credit by Examination for Acceleration is administered on the high school campus. Students may earn credit for a course in which they have not been enrolled by scoring 80 or above on a CBE. There is no cost to the student for a Credit by Exam for Acceleration. Students interested in taking a CBE should see a Counselor. Requests to test must be made one month prior to the testing dates.

Testing dates for 2026-2027 school year: Sept 16, 2026; Nov 18, 2026; March 23, 2027 & June 2, 2027

Credit-by-Exam for Acceleration (Prior Formal Instruction)

A Student who has had prior instruction but has lost credit due to failing grades or excessive absences may regain credit for the course by passing a proficiency examination of the Texas Essential Knowledge and Skills (TEKS) for the course. However, the student may not use this examination to regain eligibility to participate in extracurricular activities. To receive credit, students shall score a grade of 70 on the exam. Requests to test must be made one month prior to the testing dates.

Testing dates for 2026-2027 school year: Sept 16, 2026; Nov 18, 2026; March 23, 2027 & June 2, 2027

STAAR End-of-Course Exam (EOC)

The EOCs will be administered to students in grades 9—11. There are five tests that students will have to pass in order to graduate: English I & II, Algebra, Biology, and U.S. History end-of-course exams. Additional test dates are provided for students not passing the assessments.

PSAT

The PSAT (Preliminary SAT)/National Merit Scholarship Qualifying Test is a co-sponsored program by the College Board and National Merit Scholarship Corporation (NMSC). The PSAT/NMSQT measures the critical reading, math problem solving, and writing skills that have been developed throughout the student's life. It does not measure things like creativity and motivation, and it does not recognize those special talents that may be important to colleges.

The PSAT is administered to MPHS students in October of each year. Junior students taking the test will be attempting to qualify for the National Merit Scholarships.

GRADE POINTS

A weighted Grade Point Average (GPA) is used to determine class ranking and honor graduates. Grade points are earned for a particular grade in each semester of a course successfully completed and are only awarded at the end of each semester. The numerical grade earned will vary in grade points with the level of the course. Grade point conversions is as follows:

Numerical Grade	4	6	7	8
100	4.0	6.0	7.0	8.0
99	3.9	5.9	6.9	7.9
98	3.8	5.8	6.8	7.8
97	3.7	5.7	6.7	7.7
96	3.6	5.6	6.6	7.6
95	3.5	5.5	6.5	7.5
94	3.4	5.4	6.4	7.4
93	3.3	5.3	6.3	7.3
92	3.2	5.2	6.2	7.2
91	3.1	5.1	6.1	7.1
90	3.0	5.0	6.0	7.0
89	2.9	4.9	5.9	6.9
88	2.8	4.8	5.8	6.8
87	2.7	4.7	5.7	6.7
86	2.6	4.6	5.6	6.6
85	2.5	4.5	5.5	6.5
84	2.4	4.4	5.4	6.4
83	2.3	4.3	5.3	6.3
82	2.2	4.2	5.2	6.2
81	2.1	4.1	5.1	6.1
80	2.0	4.0	5.0	6.0
79	1.9	3.9	4.9	5.9
78	1.8	3.8	4.8	5.8
77	1.7	3.7	4.7	5.7
76	1.6	3.6	4.6	5.6
75	1.5	3.5	4.5	5.5
74	1.4	3.4	4.4	5.4
73	1.3	3.3	4.3	5.3
72	1.2	3.2	4.2	5.2
71	1.1	3.1	4.1	5.1
70	1.0	3.0	4.0	5.0
69 and below	0	0	0	0

Courses not included in class rank: STAAR EOC remediation courses, credit by exam, Correspondence courses, courses completed in summer school, courses completed in junior high, OJT, Study Hall, Office/Teacher Aide, and others designated in this course guide. Those courses completed at the DAEP or ALC will be given a weight of 4.

LANGUAGE ARTS

1121E English I

Grade: 9

Credit: 1 State

Class Rank: 6

This course emphasizes the study of composition and literature. (The skills of critical thinking, listening, reading, writing and speaking are developed through increased knowledge of literary genres with practical application in creating a multi-paragraph essay culminating in the research paper format). A variety of literature selections is used for improvement and comprehension, as well as for models to develop writing skills. Students complete outside readings and projects. A research project is required.

1123S English I ELL

Grade: 9

Credit: 2 State

Class Rank: 6

Prerequisite: LPAC Recommendation

English I ELL is specifically designed for students who are moving into the study of English grammar. Emphasis will be on building a strong base in the English language in grammar and vocabulary through a study of appropriate literature selections. In this course critical analysis of literature is undertaken with the practical application of creating multi-paragraph essays responding to the literature. Each assignment will be modified for the student's level of language proficiency. Students will research and present information demonstrating an understanding of the recursive nature of the writing process. Conventions of usage and the mechanics of written English will be stressed.

1130QE English I Honors

Grade: 9

Credit: 1 State

Class Rank: 7

This course is designed to guide students to an understanding of the varied meanings of language through a wide variety of texts including short stories, novels, audiotapes, films, poetry, plays, and the visual arts. The common thread that binds the fabric of this course is the search to recognize the underlying metaphoric implications that are inherent in all forms of written expression. Students will expand their understanding of these concepts throughout the year as they read, discuss, explore, and write. The core of the curriculum is writing and reading. Research papers and projects are required.

1221E English II

Grade: 10

Credit: 1 State

Class Rank: 6

In this course critical analysis of literature is undertaken with the practical application of creating multi-paragraph essays responding to the literature. A variety of literary genres are utilized as models of composition, literary interpretations and appreciation. A research paper is required.

1223S English II ELL

Grade: 10

Credit: 2 State

Class Rank: 6

Prerequisite: LPAC Recommendation

This course is designed for students in ELL who are ready to expand the study of English grammar after having successfully completed English I ELL. Emphasis will be placed on building a strong base in the English language in grammar and vocabulary through emphasis on the study of appropriate selections of literature. It also re-emphasizes usage and spelling through the study of multi-paragraph essays. A research project is required. In this course critical analysis of literature is undertaken with the practical application of creating multi-paragraph essays responding to the literature. This rigorous composition course requires students to skillfully research a topic and present information through a variety of media.

1230QE English II Honors

Grade: 10

Credit: 1 State

Class Rank: 7

Prerequisite: Successful completion of English I (preferably Honors)

This course is designed for students with a notably strong interest in literary study and writing and who have demonstrated that interest through commitment to intensive, accelerated work. The course introduces students to English as a scholarly discipline featuring critical analysis and careful attention to language. As readers and writers, students consider literary texts from a variety of perspectives while they develop their own writing techniques. Students sharpen their information gathering skills and synthesize various opinions into an informed conclusions through several research projects. Outside readings are required. This course will also serve as an introduction to online coursework.

1321 English III

Grade: 11

Credit: 1 State

Class Rank: 6

Students encounter and consider American writing and literature through the study of short selections as well as noted literary works. Regular student writing for a variety of purposes augments and enhances the experience of assigned readings. Development of communication competencies involving listening, speaking, group work, vocabulary, and writing-on-demand are additional elements of the course. SAT preparation is included. A research paper is required.

1340Q English III Honors

Grade: 11

Credit: 1 State

Class Rank: 7

Prerequisite: Successful completion of English II (preferably Honors)

Students encounter and consider American writing and literature through the study of short selections as well as noted literary works. Students should become aware of the interactions among a writer's purpose, audience expectation, and subject as well as the way generic conventions and the resources of language contribute to effective writing. This course will feature critical analysis and careful attention to language. As readers and writers, students consider literary texts from a variety of perspectives while they continue to develop their own writing techniques. Students will also sharpen their research and synthesis abilities in order to evaluate opinions and reach conclusions during a major research project. Outside readings, vocabulary work, and extensive essay writing is required.

1350D English III Dual Credit

Grade: 11

Credit: 1 State

Class Rank: 8

Prerequisite: Successful completion of English II (preferably Honors). Meet all admission requirements to Northeast Texas Community College, including TSI Assessment. Cost of books and fees must be paid to NTCC. Students will have the opportunity to earn college credit in ENGL1301/ENGL1302 through NTCC. Students wishing to receive accommodations in a dual credit class must contact NTCC.

This course is designed to be an intensive study of and practice in writing process from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis will be placed on effective rhetorical choices, including audience, purpose, arrangement, and style. Students will focus on writing the academic essay as a vehicle of learning, communicating, and critical analysis.

The goal of this course is to help students grow as thinkers and writers. Higher order skills acquired in thinking and writing help students process information in a rapidly changing world and reflect on the deeper meanings of print and visual media. Students who utilize the rhetorical tools and strategies achieve a level of sophistication in writing that invites audiences to join them in examining issues from multiple layers of meaning. In the process students begin to take a more disciplined approach to writing and develop their voices through every day and argumentative writing. Extensive outside readings, vocabulary work, annotations, and writing is required.

1421D English IV

Grade: 12

Credit: 1 State

Class Rank: 6

Students will have the opportunity to earn college credit in ENGL 2311 through NTCC in the Fall. Completion of this course will meet college readiness in ELA standards for NTCC.

The course includes study of representative works from various genres and periods, concentrating on works of recognized literary merit. Students read works from several genres and periods—from the sixteenth to the twentieth century—but, more importantly, they get to know a few works well. In addition to considering a work's literary artistry, students consider the social and historical values it reflects and embodies. Writing instruction includes attention to developing and organizing ideas in clear, coherent, and persuasive language, and attention to precision and correctness as necessary.

1450QD English IV Honors

Grade: 12

Credit: 1 State

Class Rank: 7

Prerequisite: Successful completion of English III (preferably Honors) Students will have the opportunity to earn college credit in ENGL 2311 through NTCC in the Fall. Completion of this course will meet college readiness in ELA standards for NTCC.

The course includes intensive study of representative works from various genres and periods, concentrating on works of recognized literary merit. Students read works from several genres and periods—from the sixteenth to the twentieth century—but, more importantly, they get to know a few works well. They read deliberately and thoroughly, taking time to understand a work's complexities, to absorb its richness of meaning, and to analyze how that meaning is embodied in literary forms. In addition to considering a work's literary artistry, students consider the social and historical values it reflects and embodies. Writing assignments focus on the critical analysis of literature and include expository, analytical, and argumentative essays. Writing instruction includes attention to developing and organizing ideas in clear, coherent, and persuasive language, a study of the elements of style, and attention to precision and correctness as necessary. Throughout the course, emphasis is placed on helping students develop stylistic maturity. Multiple research papers are required. Outside readings, vocabulary work, and extensive essay writing is required.

1450D**English IV Dual Credit - 1st time taking Dual English**

Grade: 12

Credit: 1 State

Class Rank: 8

Prerequisite: Successful completion of English III (preferably Honors or AP). Meet all admission requirements to Northeast Texas Community College, including TSI Assessment. Cost of books and fees must be paid to NTCC. Students will have the opportunity to earn college credit in ENGL1301/ENGL1302 through NTCC. Students wishing to receive accommodations in a dual credit class must contact NTCC.

This course is designed to be an intensive study of and practice in writing process from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis will be placed on effective rhetorical choices, including audience, purpose, arrangement, and style. Students will focus on writing the academic essay as a vehicle of learning, communicating, and critical analysis.

The goal of this course is to help students grow as thinkers and writers. Higher order skills acquired in thinking and writing help students process information in a rapidly changing world and reflect on the deeper meanings of print and visual media. Students who utilize the rhetorical tools and strategies achieve a level of sophistication in writing that invites audiences to join them in examining issues from multiple layers of meaning. In the process students begin to take a more disciplined approach to writing and develop their voices through every day and argumentative writing. Extensive outside readings, vocabulary work, annotations, and writing is required.

1451D**English IV Dual Credit - 2nd time taking Dual English**

Grade: 12

Credit: 1 State

Class Rank: 8

Prerequisite: Successful completion of English III Dual Credit. Meet all admission requirements to Northeast Texas Community College, including TSI Assessment. Cost of books and fees must be paid to NTCC. Students will have the opportunity to earn college credit in ENGL2322/ENGL2323 through NTCC. Students wishing to receive accommodations in a dual credit class must contact NTCC.

This course is designed to be a survey of the development of British Literature from the Anglo-Saxon period to contemporary works. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors throughout the British Literature tradition, and students will practice the writing process from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis will be placed on literature analysis with particular attention to themes, historical context, point of view, symbolism, arrangement, and style. Students will focus on writing the analytical essay as a vehicle of learning, communicating, and critical analysis.

The goal of this course is to help students grow as thinkers and writers. Higher order skills acquired in thinking and writing help students process information in a rapidly changing world and reflect on the deeper meanings of print and visual media. Students who utilize the analytical tools and strategies achieve a level of sophistication in writing that invites audiences to join them in examining issues from multiple layers of meaning. In the process students begin to take a more disciplined approach to writing and develop their voices through analytical writing. Extensive outside readings, vocabulary work, annotations, and writing is required.

MATHEMATICS

2122E Algebra I

Grade: 9

Credit: 1 State

Class Rank: 6

This is the initial high school mathematics course and the foundation for all subsequent mathematics courses. Emphasis will be placed upon the development of understandings of basic mathematical principles as well as upon mechanical manipulation with rules and special techniques. Students are taught to understand why an algebraic procedure works, as well as how it works.

2221 Geometry I

Grade: 9—10

Credit: 1 State

Class Rank: 6

This is the second course in the sequence of high school mathematics and includes the essentials of plane, solid and coordinate geometry. The emphasis will be on logical thinking and accepting premises and arriving at proper conclusions.

2231Q Geometry I Honors

Grade: 9—10

Credit: 1 State

Class Rank: 7

Prerequisite: Successful completion of Algebra I

This is the second course in the sequence of high school mathematics and includes the essentials of plane, solid and coordinate geometry. The emphasis is on logical thinking and accepting premises and arriving at proper conclusions.

2341 Math Models

Grade: 10—12

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of Algebra I and Geometry

This course is not for those students who have completed Algebra II

This course requires students to use algebraic, graphical and geometric reasoning to recognize patterns and structure, to model information, and to solve problems from various disciplines. Students use mathematical methods to model and solve real life applied problems involving money, data, chance, patterns, music, design, and science. Students use mathematical models from Algebra, Geometry, probability, and statistics to solve problems from a wide variety of advanced applications. Students use a variety of representations, tool, and technology to link modeling techniques and purely mathematical concepts and to solve applied problems.

2321 Algebra II

Grade: 10—12

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of Algebra I and Geometry

This course is the third course in the sequence of high school mathematics and includes open sentences, functions, quadratic functions, rational functions, square root functions, conic sections, exponential and logarithmic functions, and probability.

2331Q Algebra II Honors

Grade: 10—12

Credit: 1 State

Class Rank: 7

Prerequisite: Successful completion of Algebra I, and Geometry (preferably Honors)

This course is the third course in the sequence of high school mathematics and includes open sentences, functions, quadratic functions, rational functions, piecewise functions, square root functions, conic sections, exponential and logarithmic functions, sequences and series, and probability.

2331D Algebra II Dual Credit

Grade: 10—12

Credit: 1 State

Class Rank: 8

Prerequisite: Successful completion of Algebra I and Geometry (preferably Honors). Meet all admission requirements to Northeast Texas Community College, including TSI Assessment. Cost of books and fees must be paid to NTCC. Students will have the opportunity to earn college credit in MATH 1314 through NTCC. Students wishing to receive accommodations in a dual credit class must contact NTCC.

This course is the third course in the sequence of high school mathematics and includes open sentences, functions, quadratic functions, rational functions, piecewise functions, square root functions, conic sections, exponential and logarithmic functions, sequences and series, and probability.

2335 Advanced Quantitative Reasoning (AQR)

Grade: 11—12

Credit: 1 State

Class Rank: 6

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

Advanced Quantitative Reasoning (AQR) is a mathematics course that follows Algebra I, Geometry, and Algebra II. The course emphasizes statistics and financial applications, and it prepares students to use algebra, geometry and discrete mathematics to model a range of situations and solve problems.

2421 Pre-Calculus

Grade: 11—12

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of Geometry, and Algebra II

This class will be a full year offering that will cover the fundamentals of Trigonometry and Elementary Analysis as well as prepare the student for Calculus. Students who are interested in a science or mathematics college curriculum should take this class.

2431Q Pre-Calculus Honors

Grade: 11—12

Credit: 1 State

Class Rank: 7

Prerequisite: Successful completion of Geometry, and Algebra II

This class will be a full year offering that will cover the fundamentals of Trigonometry and Elementary Analysis as well as prepare the student for Calculus. Students who are interested in a science or mathematics college curriculum should take this class.

2431D Pre-Calculus Dual Credit

Grade: 11—12

Credit: 1 State

Class Rank: 8

Prerequisite: Successful completion of Algebra II Dual Credit. Meet all admission requirements to Northeast Texas Community College, including TSI Assessment. Cost of books and fees must be paid to NTCC. Students will have the opportunity to earn college credit in MATH 2412 through NTCC. Students wishing to receive accommodations in a dual credit class must contact NTCC.

This is a standard first course in functional analysis with algebra, geometry and geometric interpretations. Topics include graphs, inverse functions, polynomial functions, rational and irrational functions, exponential and logarithmic functions, trigonometric functions, inverse trigonometric functions, Law of Sines, Law of Cosines and analytic geometry. This course will prepare students for Calculus. Students interested in Science or Mathematics in college curriculum should take this class.

2551D Calculus Dual Credit

Grade: 12

Credit: 1 State

Class Rank: 8

Prerequisite: Successful completion of Pre-Calculus Dual Credit. Meet all admission requirements to Northeast Texas Community College, including TSI Assessment. Cost of books and fees must be paid to NTCC. Students will have the opportunity to earn college credit in MATH 2413 Fall semester & MATH 2414 Spring semester through NTCC. Students wishing to receive accommodations in a dual credit class must contact NTCC.

Calculus I (Fall Semester) is a standard first course in Calculus. Topics include differentiation of algebraic and trigonometric functions, differentiation formulas, applications of the derivative, mean value theorem, maxima/minima, point of inflection, curve sketching, antiderivatives, definite and indefinite integrals, upper and lower sums, and the fundamental theorem.

Calculus II (Spring Semester) is a standard second course in Calculus. Topics include differentiation and integration of transcendental functions; parametric equations and polar coordinates; techniques of integration; sequences and series; improper integrals.

2552P Statistics AP

Grade: 11—12

Credit: 1 State

Class Rank: 8

Prerequisite: Successful completion of Pre-Calculus or concurrent enrollment in Pre-Calculus.

This is a class designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, planning a study, anticipating patterns, and making statistical inferences. This class is designed to prepare the student for the Statistics AP exam.

8C161 Accounting II

Grade: 12

Credit: 1 State

Class Rank: 7

Prerequisite: Successful completion of Accounting I

This course provides for review and further development of fundamental accounting principles with extensive use the technology; incorporates complete accounting cycle in relation to formation and dissolution of partnerships. This course includes adjustments of bad debts, depreciation, depletion of fixed assets, adjusted and accrued income, various methods of inventory control, preparation of business budgets and promissory notes receivable and payable. It provides experience in initiating and maintaining an accounting system in analyzing, interpreting, and synthesizing managerial problems using accounting information as a tool; and develops skill in applying principles used in accounting systems and methods commonly found in business. Accounting II is designed for students interested in studying accounting at the post-secondary level or entering the workforce.

SCIENCE

3461 Environmental Systems

Grade: 9—10

Credit: 1 State

Class Rank: 6

Students will investigate the natural world and its systems with emphasis on human activity and our effect on the natural world. Laboratory investigations are conducted using scientific methods and problem solving. Knowledge of general science is an integral part of this course.

3221E Biology I

Grade: 10—12

Credit: 1 State

Class Rank: 6

Students in Biology study the origin, structure, reproduction and growth of living organisms, and how they interact with each other and their environment.

3230QE Biology I Honors

Grade: 9—10

Credit: 1 State

Class Rank: 7

This course is an in-depth study of Biology I and designed for the advanced ninth grade science student. Students enrolling in this class should be willing to go into Biology AP.

3321 Chemistry I

Grade: 10—12

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of Biology I and Algebra I

Chemistry is a study of the nature of matter and changes in its composition including structural study. The course uses a combination of lecture and laboratory work. It involves a large amount of mathematics.

3330Q Chemistry I Honors

Grade: 10—12

Credit: 1 State

Class Rank: 7

Prerequisite: Successful completion of Biology I and Algebra I (preferably Honors)

Chemistry is a study of the nature of matter and changes in its composition including structural study. The course uses a combination of lecture and laboratory work. It involves a large amount of mathematics. This is recommended for the college-bound student.

3250D Biology II Dual Credit

Grade: 11—12

Credit: 1 State

Class Rank: 8

Prerequisite: Successful completion of Biology I and Chemistry I (preferably Honors). Meet all admission requirements to Northeast Texas Community College, including ELA TSI Assessment. Cost of books and fees must be paid to NTCC. Students will have the opportunity to earn college credit in BIOL1408/BIOL1409 Non-Science majors through NTCC. Students wishing to receive accommodations in a dual credit class must contact NTCC.

Students in this course will survey biological principles with an emphasis on humans including chemistry of life cells structure, function and reproduction as well as evolution ecology, plant and animal diversity and physiology. Lab activities will reinforce these topics.

3521P AP Environmental Science

Grade: 11—12

Credit: 1 State

Class Rank: 8

This course provides an investigative approach to the interrelationships of the natural world on Earth through the study of the fundamental concepts, principles, and methodologies of science, with an emphasis on inquiry and critical thinking skills, including problem solving and experimental investigations. Students will learn how to utilize scientific processes to analyze data obtained through scientific investigations in class and in lab/field work. The class will guide students in understanding and interpreting scientific data and drawing logical conclusions. Topics of study include Earth's History, Earth Systems and Resources, Energy Flow, Land and Water Use, Energy Resources and Consumption, Pollution, Agriculture, Populations, Conservation, The Living World and Global Change.

3430Q Physics Honors

Grade: 11—12

Credit: 1 State

Class Rank: 7

Prerequisite: Successful completion of Chemistry I and Algebra II (preferably Honors) and concurrent enrollment in Pre-Calculus

Physics Honors includes the lecture and laboratory study of force and motion, thermal energy, wave phenomena, kinetic theory, light and optics, and electricity and magnetism. Many labs will involve the use of CBL's and computer graphical analysis. This course is recommended for students planning to take any college science.

3450D Physics Dual Credit

Grade: 11—12

Credit: 1 State

Class Rank: 8

Prerequisite: Successful completion of Chemistry I, Algebra II Dual Credit, and Pre-Calculus Dual Credit, or be concurrently enrolled in Pre-Calculus Dual Credit. Meet all admission requirements to Northeast Texas Community College, including Math and English TSI Assessment. Cost of books and fees must be paid to NTCC. Students will have the opportunity to earn college credit in PHYS1401/PHYS 1402 through NTCC. Students wishing to receive accommodations in a dual credit class must contact NTCC.

This course is an algebra-based general college physics course. During the first semester we will explore topics including Newtonian mechanics (including rotational motion); work, energy, and power, momentum methods, fluid mechanics, thermodynamics, and mechanical waves and sound. During the second semester we will explore topics including electrostatics, electrical circuits, electromagnetism, physical and geometric optics, quantum, atomic and nuclear physics.

3450P AP Physics C Mechanics, Electrical, and Magnetism

Grade: 12

Credit: 1 State

Class Rank: 8

Prerequisite: Successful completion of Dual Credit Physics and be concurrently enrolled in Dual Credit Calculus.

These courses are each equivalent to a one-semester, calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The first semester Mechanics course explores topics such as kinematics; Newton's laws of motion, work, energy, and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. The second semester, Electricity and Magnetism course explores topics such as electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Introductory differential and integral calculus is used throughout the course.

8C841 Anatomy & Physiology

Grade: 11—12

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of Biology I and Chemistry I.

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

8C840 Anatomy & Physiology Honors

Grade: 11—12

Credit: 1 State

Class Rank: 7

Prerequisite: Successful completion of Biology I, Chemistry I, Principles of Health Science, Health Science Theory. Recommended for students in Health Science Career Cluster.

This course covers the same concepts as Anatomy and Physiology. The content in this section is studied more in-depth with each system and how it interrelates with other systems in the body. This section may include additional research on disorders and diseases with how they relate to each system in Anatomy and Physiology.

8C335 Forensic Science

Grade: 11—12

Credit: 1 State

Class Rank: 6

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

8C335Q Forensic Science Honors

Grade: 11—12

Credit: 1 State

Class Rank: 7

Prerequisite: Successful completion of Biology I and Chemistry I; and Principles of Law, Public Safety, Corrections & Security.

This course covers the same concepts as Forensic Science. The content is studied in greater depth, includes advanced math calculations in topics as blood spatter and ballistics and may include additional topics. This course is highly recommended for students interested in pursuing a career in law, public safety, corrections, and security occupations.

8C428 Scientific Research and Design

Grade: 11—12

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of Biology I and Chemistry I

This course is a project-based learning course. In this course, students will learn about the nature of science, methods of scientific inquiry, and the application of scientific information in society. Students will complete independent and collaborative research projects wherein they will design and execute experiments, and present their findings using a variety of media.

8C428Q Scientific Research and Design Honors

Grade: 11—12

Credit: 1 State

Class Rank: 7

Prerequisite: Successful completion of Biology I and Chemistry I

The goal of this course is for students to experience scientific research as scientists do. They will be challenged because there is no right answer. The teacher will guide and brainstorm with students as a facilitator, but students will be expected to learn how to guide themselves. Students will learn to read and analyze scientific articles, design an experiment, ask good experimental questions, operationalize variables, gather data, analyze results and draw conclusions. Also, they will be expected to deliver presentations on their research and eventually either look for external mentors with whom they can develop their own research ideas into original scientific projects or design and carry out their own in-house, independent research.

8C556 Advanced Animal Science

Grade: 12

Credit: 1 State

Class Rank: 7

Prerequisite: Successful completion of Livestock Production

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.

SOCIAL STUDIES

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SOCIAL STUDIES

4121 World Geography

Grade: 9

Credit: 1 State

Class Rank: 6

Students examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Students describe the influence of geography on events of the past and present with emphasis on contemporary issues. A significant portion of the course centers around the physical processes that shape patterns in the physical environment; the characteristics of major landforms, climates, and ecosystems and their interrelationships; the political, economic and social processes that shape cultural patterns of regions; types and patterns of settlement; the distribution and movement of the world population; relationships among people, places and environments, and the concept of region. Students analyze how location affects economic activities in different economic systems. Students identify the processes that influence political divisions of the planet and analyze how different points of view affect the development of public policies. Students compare how components of culture shape the characteristics of regions and analyze the impact of technology and human modifications on the physical environment. Students use problem-solving and decision-making skills to ask and answer geographic questions.

4130Q World Geography Honors

Grade: 9

Credit: 1 State

Class Rank: 7

Students examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Students describe the influence of geography on events of the past and present with emphasis on contemporary issues. A significant portion of the course centers around the physical processes that shape patterns in the physical environment; the characteristics of major landforms, climates, and ecosystems and their interrelationships; the political, economic and social processes that shape cultural patterns of regions; types and patterns of settlement; the distribution and movement of the world population; relationships among people, places and environments, and the concept of region. Students analyze how location affects economic activities in different economic systems. Students identify the processes that influence political divisions of the planet and analyze how different points of view affect the development of public policies. Students compare how components of culture shape the characteristics of regions and analyze the impact of technology and human modifications on the physical environment. Students use problem-solving and decision-making skills to ask and answer geographic questions.

4221 World History

Grade: 10

Credit: 1 State

Class Rank: 6

The major emphasis is on the study of significant people, events, and issues from the earliest times to the present. Traditional historical points of reference in World History are identified as students analyze important events and issues in western civilization as well as in civilizations in other parts of the world. Students evaluate the causes and effects of political and economic revolution and of major political revolutions since the 17th century. Students examine the impact of geographic factors on major historic events, identify the historic origins of contemporary economic systems, as well as the history major of religious and philosophical traditions. Students will study how the democratic-republican governments evolved.

4230Q World History Honors

Grade: 10

Credit: 1 State

Class Rank: 7

The major emphasis is on the study of significant people, events, and issues from the earliest times to the present. Traditional historical points of reference in World History are identified as students analyze important events and issues in western civilization as well as in civilizations in other parts of the world. Students evaluate the causes and effects of political and economic revolution and of major political revolutions since the 17th century. Students examine the impact of geographic factors on major historic events, identify the historic origins of contemporary economic systems, as well as the history major of religious and philosophical traditions. Students will study how the democratic-republican governments evolved. Since this is an honors course, the assignments will be demanding. Critical thinking, analysis of primary sources, and several written assignments will be completed to assist in the student's understanding.

4250P World History AP

Grade: 10

Credit: 1 State

Class Rank: 8

The AP course in World History invites students to take a global view of historical processes and contacts between people in different societies—with emphasis on the period after 1000 B.C. Emphasis on analytical and writing skills necessary for success in a college-level history course will be a major focus. To this end, the course devotes considerable time to the critical evaluation of primary and secondary sources, analysis of historiography, oral presentations, short essays, an major research paper, and the development of a document-based question. Concepts will be employed throughout the course, though the basic approach will be chronological. Students will pay particular attention to change and continuity over time, to the characteristic institutions and values of societies, and to the way such institutions and values are affected as a result of cultural contacts among peoples. Our continuing question will be “What is the world historical significance of the experience which we are discussing?” This course examines the history of human experience from a global perspective from gathering-hunting groups and early agricultural societies into major civilizations. Other complex societies will be traced. Emphasis will be on preparing students to take the AP exam at the end of the course.

4321E U.S. History

Grade: 11

Credit: 1 State

Class Rank: 6

This course is a survey of the U.S. History from the Post-Reconstruction period following the Civil War to the present. Topics studied are Reconstruction, the West, the Industrial Revolution, the Agrarian Revolution, the Progressive Movement, Imperialism, World War I, the Twenties, the Great Depression, World War II, and major foreign and domestic problems of the 1950's through the 1980's.

4321Q U.S. History Honors

Grade: 11

Credit: 1 State

Class Rank: 7

This course is a survey of the U.S. History from the Post-Reconstruction period following the Civil War to the present. Topics studied are Reconstruction, the West, the Industrial Revolution, the Agrarian Revolution, the Progressive Movement, Imperialism, World War I, the Twenties, the Great Depression, World War II, and major foreign and domestic problems of the 1950's through the 1980's. Since this is an honors program, the teacher expectations and standards will be high. Assignments will be demanding and students are expected to meet these. Critical thinking, analysis of primary sources, and several written assignments will be made to make a student understand the importance of learning the past, reviewing material from many sources, and drawing logical conclusions.

4350D U.S. History Dual Credit

Grade: 11

Credit: 1 State

Class Rank: 8

Prerequisite: Meet all admission requirements to Northeast Texas Community College, including TSI Assessment. Cost of books and fees must be paid to NTCC. Students will have the opportunity to earn college credit in US HIST 1301/ US HIST 1302 through NTCC. Students wishing to receive accommodations in a dual credit class must contact NTCC.

A survey of social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the present. Includes the study of the pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/Reconstruction eras. The course will also examine industrialization, immigration, world wars, the Great Depression, Cold War, and post-Cold War eras. Themes that may be addressed include: American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, creation of the federal government, urbanization and suburbanization, the expansion of the federal government and the study of the U.S. foreign policy

4421 U.S. Government

Grade: 12

Credit: .5 State

Class Rank: 6

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

4422 Economics

Grade: 12

Credit: .5 State

Class Rank: 6

Economics with emphasis on the free enterprise system and its benefits is the culmination of the economic content and concepts studied from Kindergarten through required secondary courses. The focus is on the basic principles concerning production, consumption, and distribution of goods and services in the U.S. and a comparison with those in other countries around the world. Students examine the rights and responsibilities of consumers and businesses. Students analyze the interaction of supply, demand, and price and study the role of financial institutions in a free enterprise system. Types of business ownership and market structures are discussed as a basic concepts of consumer economics. The impact of a variety of factors including geography, the federal government, economic ideas from important philosophers and historic documents, societal values, and scientific discoveries and technological innovations on the national economy and economic policy is an integral part of the course.

4460/4465 U.S. Government and Economics Dual Credit

Grade: 12

Credit: .5 State/each

Class Rank: 8

Prerequisite: Meet all admission requirements to Northeast Texas Community College, including TSI Assessment. Cost of books and fees must be paid to NTCC. Students will have the opportunity to earn college credit in GOVT 2305/ECON 2301 through NTCC. Students wishing to receive accommodations in a dual credit class must contact NTCC.

U.S. Government Dual Credit is a survey of the United States constitutional systems: executive, judicial, and legislative. Emphasis is on foreign and military policies, economic and financial developments, political parties and ideologies, bureaucracies, and the impact of public opinion, pressure groups, and mass media on elections. World affairs are stressed with respect to their impact on the United States.

Economics Dual Credit is an introduction to the study of general economic principles. Such topics as economic systems, demand and supply, business organizations, gross national product, unemployment, inflation, fiscal policy, monetary policy, interest rates, and business cycles are discussed. Macroeconomics and current economic topics are emphasized.



Language

SPANISH

society
MADRID
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LANGUAGES OTHER THAN ENGLISH

5321 Spanish I

Grade: 9—11

Credit: 1 State

Class Rank: 6

This course is an introduction to the Spanish language and cultures of Spanish speaking countries with emphasis on the culture of Latin America. This course emphasizes the development of the language in the four skills of listening, speaking, reading and writing. Class participation is essential toward the development of oral proficiency. This course includes projects.

5321Q Spanish I Honors

Grade: 9—11

Credit: 1 State

Class Rank: 7

This course is a more advanced and rigorous version of Spanish I. This course emphasizes the development of the language in the four skills of listening, speaking, reading and writing. Class participation is essential toward the development of oral proficiency. This course includes more advanced projects, and follows a pathway to earn a performance acknowledgement, ending in Spanish III Honors

5323 Spanish II

Grade: 9—12

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of Spanish I

This course, a continuation of Spanish I, emphasizes the continuing development and reinforcement of the language in the skills of listening, speaking, reading, and writing. Grammar is more difficult at this level with the introduction of several verb tenses. Students planning to take Spanish III Honors are recommended to take Spanish II Honors.

5323Q Spanish II Honors

Grade: 9—12

Credit: 1 State

Class Rank: 7

Prerequisite: Successful completion of Spanish I (preferably Honors)

This course is a more advanced and rigorous version of Spanish II that is designed to prepare students to be successful in Spanish III Honors. Students will be required to make every effort to speak a majority of the time in Spanish, while learning more about the language, culture and current issues facing Latin America. This course includes projects, and follows a pathway to earn a performance acknowledgement, ending in Spanish III Honors.

5331Q Spanish III Honors

Grade: 9—12

Credit: 1 State

Class Rank: 7

Prerequisite: Successful completion of Spanish II (preferably Honors)

Students will be able to achieve an acceptable level of accuracy when participating in casual conversations. At this level, the student will begin to comprehend authentic texts of prose and poetry and will be able to write at an advanced level. This course is designed to prepare students to move on to the AP Language level.

5330 Spanish IV Honors

Grade: 10—12

Credit: 1 State

Class Rank: 7

Prerequisite: Successful completion of Spanish III Honors

This is a yearlong course that encompasses the fourth level of studies in the Spanish language and builds on skills learned in the first three years. The course expands the students' knowledge of the Spanish language in : communications, cultures, connections, comparisons, and communities. The student will continue to improve listening, speaking, reading and writing skills through activities based on pedagogically proven strategies of language instruction. They will expand their vocabulary on a variety of topics as well a review and advance grammatical concepts and tenses that were previously learned in Spanish levels I through III. Throughout the course, students will be exposed to the culture of the Spanish speaking world to advance their understanding of its people, geographical locations and histories. Spanish IV serves as a preparation for the next level of language course—AP Spanish Language and Culture.

5350P AP Spanish Language and Culture

Grade: 11—12

Credit: 1 State

Class Rank: 8

Prerequisite: Successful completion of Spanish IV Honors

Students will be immersed in the language in preparation for the AP Spanish Language and Lecture exam which students are expected to take at the end of the course. The emphasis in AP Spanish Language is to add understanding of more complex structures present in dealing with topics and ideas more complicated than basic needs; to bring culture, history, and geography of Spanish speaking countries of Latin America into closer focus; and to facilitate increasing ability to listen with comprehension, speak with greater correctness, read more rapidly and accurately and with a variety of vocabulary and sentence structure. Oral proficiency is stressed, and there is much emphasis placed on all verb tenses. Students will engage in the AP with WE Service Project geared towards understanding of the effects of poverty on education. They will investigate the topic, create an action plan with one local and one global action, implement their action plan and celebrate their success. Students who successfully meet the recognition requirements for the AP with WE Service can earn a program recognition that will be reported to higher educational institutions on ETS Score Reports.

5332P AP Spanish Literature and Culture

Grade: 11—12

Credit: 1 State

Class Rank: 8

Prerequisite: Successful completion of Spanish Language and Culture or Spanish IV Honors

The AP Spanish Literature and Culture enables willing and academically prepared students to pursue college-level studies with the opportunity to earn college credit. The course uses a thematic approach to introduce students to representative texts (short stories, novels, poetry, and essays) from Peninsular Spanish, Latin American, and United States Hispanic literature. Students continue to develop proficiencies across the full range of the modes of communication (interpersonal, presentational, and interpretive), honing their critical reading and analytical writing skills. Literature is examined within the context of its time and place, as students reflect on the many voices and cultures present in the required readings. The course also includes a strong focus on cultural connections and comparisons, including exploration of various media (e.g. art, film, articles, and literary criticism). AP Spanish Literature and Culture is designed for students who have successfully completed AP Spanish Language and Culture course.

Fine Arts



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FINE ARTS

ART

****There is a fee for art supplies for all MPISD High School Art Classes. The fee is \$20.00 for each class per year.**

6121 Art I

Grade: 10—12

Credit: 1 State

Class Rank: 6

Due to limited facilities, Freshmen will not be permitted to enroll in Art I. **Supplies or material fee required*

This two semester course (separated in to Part A & B) serves as a survey course in which students produce a variety of artworks. In Part A, students work with various Two-dimensional media. In Part B, students work with various Three-dimensional media. In Part A & B students explore the historical and cultural contexts in which many artworks are created. Students also analyze and evaluate artwork on the basis of the elements and principles of design.

6122 Art II

Grade: 9—12

Credit: 1 State

Class Rank: 6

*Prerequisite: An application including a Portfolio submission, and/or High School Art Teacher approval. **Supplies or material fee required***

Students produce media specific designs using basic techniques in relation to historical and cultural contents. Students explore the historical and cultural contexts in which many artworks are created. Students also analyze and evaluate artwork on the basis of the elements and principles of design.

6123Q Art III Honors

Grade: 10—12

Credit: 1 State

Class Rank: 7

*Prerequisite: Successful completion of Art II and High School Art Teacher approval. **Supplies or material fee required***

This precollege-level course is designed to address a very broad interpretation of drawing issues. For example, many types of painting, printmaking, and studies for sculpture, as well as abstract and observational works, would qualify as addressing drawing issues. These could also include, but are not limited to, graphic design typography, digital imaging, photography, collage, fabric design, weaving, illustration, painting, and printmaking. A variety of approaches to representation, abstract, and expression may be part of the student's portfolio. Students may also choose to do Three-dimensional art that could include, among others, traditional sculpture, architectural models, apparel, ceramics, fiber arts, or metalwork. Honors courses address learning objectives with greater depth and at a faster pace along with higher expectations for student performance.

6124Q Art IV Honors

Grade: 11—12

Credit: 1 State

Class Rank: 7

*Prerequisite: Successful completion of Art II, & Art III Honors, and High School Art Teacher approval. **Supplies or material fee required***

This precollege-level course is designed to address a very broad interpretation of drawing issues. Students produce media specific designs using basic techniques in relation to historical and cultural contents. Students explore the historical and cultural contexts in which many artworks are created. Students also analyze and evaluate artwork on the basis of the elements and principles of design.

6123L Studio Art Lab

Grade: 11—12

Credit: 1 State

Class Rank: 0

This is an optional class to complement ART IV Honors and is required for an AP Studio class. This will be taken at another time during the day for the student to work on their portfolio. Students that are in Honors desiring to go on to an AP art class (2D, 3D, Drawing) are encouraged to take this course. Students that are in any AP Studio Art class (2D, 3D, Drawing) are required to take this class to help them complete all the work that will be required to finish the AP Studio course.

Choices for AP Studio Art:

*Prerequisite: Successful completion of Art II, Art III Honors, Art IV Honors and High School Art Teacher approval to move up into this collegiate course. ****Supplies or material fee of \$20.00 required*****

These are college-level courses designed to help the student achieve their collegiate plans to pursue art. It is required that students take Studio Art Lab in combination with this class. Studio Art Lab will be taken at another time during the day for the student to work on their portfolio.

6151P AP Studio Art Drawing

Grade: 12

Credit: 1 State

Class Rank: 8

****Supplies or material fee required****

This college-level course is designed to address a very broad interpretation of drawing issues. For example, many types of painting, printmaking, and studies for sculpture, as well as abstract and observational works, would qualify as addressing drawing issues. The portfolio is a vehicle through which students can demonstrate ability to deal with the fundamental concerns of visual arts and can thus possibly earn credit, advanced placement, or both at the college level. AP courses address learning objectives with greater depth and at a faster pace along with higher expectations for student performance.

6152P AP Studio Art Two Dimensional

Grade: 12

Credit: 1 State

Class Rank: 8

****Supplies or material fee required****

For this college-level portfolio, students are asked to demonstrate proficiency in TWO-dimensional design using a variety of art forms. This could include, but are not limited to: graphic design typography, digital imaging, photography, collage, fabric design, weaving, illustration, painting, and printmaking. A variety of approaches to representation, abstraction, and expression may be part of the student's portfolio. The portfolio is a vehicle through which students can demonstrate ability to deal with the fundamental concerns of visual arts and can thus possibly earn credit, advanced placement, or both at the college-level. AP courses address learning objectives with greater depth and at a faster pace along with higher expectations for student performance.

6153P AP Studio Art Three Dimensional

Grade: 12

Credit: 1 State

Class Rank: 8

*****Supplies or material fee required*****

This college-level portfolio is intended to address a broad interpretation of sculptural issues in depth and space. These may include mass, volume, form, plane, light, and texture. Such elements and concepts can be articulated through additive, subtractive, and/or fabrication processes. A variety of approaches to representation, abstraction, and expression may be part of the student's portfolio. These might include, among others, traditional sculpture, architectural models, apparel, ceramics, fiber arts, or metalwork. The portfolio is a vehicle through which students can demonstrate ability to deal with the fundamental concerns of visual arts and can thus possibly earn credit, advance placement or both at the college level.

DANCE

7511B Dance I

Grade: 9—12

Credit: 1 State

Class Rank: 6

Dance I is a full year course which focuses on various styles of dance and movement. This class will serve as a Fine Arts or elective credit. It is highly recommended for those who plan to audition for the Tiger Dolls drill team in the spring. Students will be required to purchase black shirt, black leggings, and black jazz shoes.

7511A Dance II

Grade: 10—12

Credit: 1 State

Class Rank: 6

Dance II is a full year course which focuses on variety of styles of dance and advanced technical movement. This class will serve as a Fine Arts or elective credit.

7511C Dance III

Grade: 11—12

Credit: 1 State

Class Rank: 6

Dance III is a full year course which focuses on variety of styles of dance and advanced technical movement. This class will serve as a Fine Arts or elective credit.

7511D Dance IV

Grade: 12

Credit: 1 State

Class Rank: 6

Dance IV is a full year course which focuses on variety of styles of dance and advanced technical movement. This class will serve as a Fine Arts or elective credit.

DRILL TEAM

Tiger Dolls Drill Team

Prerequisite: Audition required

This is a specialized class of fine arts for girls who are members of the drill team, "Tiger Dolls". Girls are chosen for this group through tryouts held each Spring. Completion of Tiger Dolls I will earn a PE credit as well as a Fine Art credit

Grade: 9—12

Credit: 1 State

Class Rank: 6

75111T Tiger Dolls I

75122 Tiger Dolls II

Grade: 11—12

Credit: 1 State

751333 Tiger Dolls III

751444 Tiger Dolls IV

7515 Tiger Dolls Officers (Jr. & Sr. year ONLY)

Tiger Dolls Drill Manager

Prerequisite: Application required and Director approval

Completion of Tiger Dolls Manager I will earn a PE credit as well as a Fine Art credit

75101T Tiger Dolls Manager I

75102 Tiger Dolls Manager II

Class Rank: 0

75103 Tiger Dolls Manager III

75104 Tiger Dolls Manager IV

THEATRE

6221 Theatre Arts I

Grade: 9—12

Credit: 1 State

Class Rank: 6

Prerequisite: Students will be required to attend shows throughout the school year for in-class assessments and will be required to perform in an end-of-year showcase (classroom rehearsals, one after school technical rehearsal and one evening performance). Students will also be required to produce a class play for public performance.

This is an introductory theatre course for students wishing to study performance theatre. Students will learn theatrical fundamentals, the history of theatre, basics of technical theatre, and will build foundations of voice, movement, and performance. Students will learn to read scripts for meaning, understanding, and evaluation. Students will achieve understanding of the historical, creative, artistic, and aesthetic aspects of theatre in relationship to American History. Students will gain knowledge and understanding of the social and cultural impact of the theatre art form on society and culture. Students will achieve a professional and personal understanding of the arts through rehearsals, auditions, performances and presentations (both written and aural). Students will rehearse to create several structured theatre events while working in cooperation with other members of the class to create an ensemble effort on stage.

PRODUCTION THEATRE

Theatre Production 1,2,3,&4 are performance classes. This means that EVERYONE enrolled in one of these classes is **REQUIRED** to act and/or work backstage on every department production. This class produces the UIL ONE ACT PLAY as well as two or three additional plays throughout the year. After school rehearsal attendance is required (usually 2 evenings per week). Grades are earned as follows: 50% for classwork and 50% for evening rehearsals. Occasionally, you may be required to provide some costume pieces. In addition to the above requirements, you are expected to maintain passing grades in ALL your classes.

6226 Production Theatre I

Grade: 9—12

Credit: 1 State

Class Rank: 6

Prerequisite: Instructor Approval; Evening play rehearsals and performances are mandatory!

The student will learn the basics of acting, stage movement, and stage craft through “hands on” participation in each play the Theatre Department produces. The student will learn from more experienced students in addition to the direction that the Theatre Director provides.

6227 Production Theatre II

Grade: 10—12

Credit: 1 State

Class Rank: 6

Prerequisite: Instructor Approval; Evening play rehearsals and performances are mandatory!

The student will continue learning the basics of acting, stage movement, and stage craft through “hands on” participation in each play the Theatre Department produces.

6228Q Honors Production Theatre III

Grade: 11—12

Credit: 1 State

Class Rank: 7

Prerequisite: Instructor Approval; Evening play rehearsals and performances are mandatory!

The student will continue the perfecting of their acting, stage movement, and stage craft through “hands on” participation in each play the Theatre Department produces. Production III students are expected to set the example for underclasses for commitment and cooperation.

6229Q Honors Production Theatre IV

Grade: 11—12

Credit: 1 State

Class Rank: 7

Prerequisite: Instructor Approval; Evening play rehearsals and performances are mandatory!

The student will continue the perfecting of their acting, stage movement, and stage craft through “hands on” participation in each play the Theatre Department produces. Production IV students are expected to set the example for underclasses for commitment and cooperation. Production IV students will direct a ONE ACT play or scenes for public performance.

TECHNICAL THEATRE

6225 Technical Theatre I

Grade: 9—12

Credit: 1 State

Class Rank: 6

Prerequisite: Students will be required to attend shows throughout the school year for in-class assessments and will be required to perform in an end-of-year showcase (classroom rehearsals, one after school technical rehearsal and one evening performance).

This is an introductory theatre course for students wishing to study technical theatre. Students will concentrate on all areas of theatre technology, production, and performance. Students will learn how to research and design scenery, lighting, sound, costumes, and properties, and will actively learn about the roles of production staff and production management staff. Students will learn to read and analyze scripts for meaning, understanding, and evaluation in a technical manner. Students will achieve understanding of the historical, creative, artistic, and aesthetic aspects of theatre in relationship to American History. Students will gain knowledge and understanding of the social and cultural impact of the theatre art form on society and culture. Students will achieve a professional and personal understanding of the arts through rehearsals, auditions, performances and presentations (both written and aural). Students will rehearse backstage to create several structured theatre events while working in cooperation with other members of the class to create an ensemble effort on state.

PRODUCTION TECHNICAL THEATRE

Technical Theatre Production 1,2,3,&4

In Production Technical Theatre, the technicians perform those technical roles that actually involve the live performance of plays. You may be involved in set construction as Tech Theatre I students are, however, the main role for Production technicians is working those backstage roles such as lighting technician, sound technician, set moving, makeup, publicity, front of house, fly system, and any other jobs that a play might require. This means that EVERY-ONE enrolled in one of these classes is **REQUIRED** to act and/or work backstage on every department production. This class produces the UIL ONE ACT PLAY as well as two or three additional plays throughout the year. After school rehearsal attendance is required (usually 2 evenings per week). Grades are earned as follows: 50% for classwork and 50% for evening rehearsals. Occasionally, you may be required to provide some costume pieces. In addition to the above requirements, you are expected to maintain passing grades in ALL your classes.

62252 Technical Theatre II

Grade: 10—12

Credit: 1 State

Class Rank: 6

Honors level courses are an advanced technical theatre course for students wishing to continue their studies of technical theatre and actively participate in theatrical productions to do so. Students will concentrate on all areas of theatre technology, production, and performance. Students will learn how to research and design scenery, lighting, sound, costumes, and properties, and will actively learn about the roles of production staff and production management staff.

Prerequisite: Instructor Approval; Students will be required to actively participate in a minimum of one production throughout the year and serve as technical staff in auditorium events through out the year. Students will be required to attend/participate in shows throughout the school year for in-class assessments.

62253Q Honors Technical Theatre III

Grade: 11—12

Credit: 1 State

Class Rank: 7

62254Q Honors Technical Theatre IV

Grade: 12

Credit: 1 State

Class Rank: 7

DIGITAL ART

8C243 Digital Art & Animation

Grade: 9—12

Credit: 1 State

Class Rank: 6

Qualifies as a Fine Art credit

Digital Art is a class where you will learn software tools such as Adobe Photoshop and Illustrator to create digital art for print. You will learn to edit and adjust photographs, create original photo manipulations, original illustrations, and commercial art. This will include the study of art theory concepts such as the elements of art, principles of design, typography, composition, and color theory. Students will use photography, image manipulation and digital drawing tablets in this project-based class.

Men's Athletics (Football & Basketball)

Grade: 9—12

Credit: 1 State

Class Rank: 6

73411 Men's Athletics I

73422 JV/Varsity Men's Athletics II

Grade: 11—12

Credit: 1 State

Class Rank: 0

734330 JV/Varsity Men's Athletics III

734440 JV/Varsity Men's Athletics IV

Baseball

Grade: 9—12

Credit: 1 State

Class Rank: 6

73451 Baseball I

73452 Baseball II

Grade: 11—12

Credit: 1 State

Class Rank: 0

734530 Baseball III

734540 Baseball IV

Men's Athletic Study Hall

Grade: 10—12

Credit: 1 Local

Class Rank: 0

E700 Athletic Study Hall

WOMEN'S SPORTS

Women's Tennis

Grade: 9—12	Credit: 1 State	Class Rank: 6
74111	Women's Tennis I	
74122	Women's Tennis II	
Grade: 11—12	Credit: 1 State	Class Rank: 0
741330	Women's Tennis III	
741440	Women's Tennis IV	

Women's Golf

Grade: 9—12	Credit: 1 State	Class Rank: 6
74211	Women's Golf I	
74222	Women's Golf II	
Grade: 11—12	Credit: 1 State	Class Rank: 0
742330	Women's Golf III	
742440	Women's Golf IV	

Women's Soccer

Grade: 9—12	Credit: 1 State	Class Rank: 6
74311	Women's Soccer I	
74322	Women's Soccer II	
Grade: 11—12	Credit: 1 State	Class Rank: 0
743330	Women's Soccer III	
743440	Women's Soccer IV	

Women's Volleyball, Basketball & Softball

Grade: 9—12	Credit: 1 State	Class Rank: 6
74411	Women's Athletics I	
74422	JV/Varsity Women's Athletics II	
Grade: 11—12	Credit: 1 State	Class Rank: 0
744330	JV/Varsity Women's Athletics III	
744440	JV/Varsity Women's Athletics IV	

Women's Athletic Study Hall

Grade: 10—12

Credit: 1 Local

Class Rank: 0

E701 Athletic Study Hall

Cheerleading

Prerequisite: Audition required

Grade: 9—10

Credit: 1 State

Class Rank: 6

75211 Cheerleading I

75222 Cheerleading II

Grade: 11—12

Credit: 1 State

Class Rank: 0

752330 Cheerleading III

752440 Cheerleading IV

7530 Cheer Captains





PROGRAMS OF STUDY

Agriculture, Food, and Natural Resources

ANIMAL SCIENCE



Student Organization: FFA

Level 1 Course:
Principles of Agriculture, Food, and Natural Resources

Level 2 Course:
Small Animal Management / Equine Science

Level 3 Course:
Livestock Production

Level 4 Course:
Practicum in Animal Science or Advanced Animal Sci
Scientific Research and Design

<p><u>Industry Certifications:</u> Vet Asst. Level 1</p> <p>Elanco Fundamentals of Animal Science</p>	<p><u>Possible Careers:</u></p> <table border="0"> <tr> <td data-bbox="565 1570 808 1598">Animal Breeders</td> <td data-bbox="842 1570 1086 1598">Zoologists</td> <td data-bbox="1120 1570 1364 1598">Agriculture Teacher</td> </tr> <tr> <td data-bbox="565 1640 808 1667">Animal Scientists</td> <td data-bbox="842 1640 1086 1667">Wildlife Biologists</td> <td data-bbox="1120 1640 1364 1667">Agribusiness & Marketing</td> </tr> <tr> <td data-bbox="565 1682 808 1709">Medical Scientists</td> <td data-bbox="842 1682 1086 1709">Embryologist</td> <td data-bbox="1120 1682 1364 1709">Agriculture Research</td> </tr> <tr> <td data-bbox="565 1724 808 1751">Veterinarians</td> <td data-bbox="842 1724 1086 1751">Farm/Ranch Management</td> <td data-bbox="1120 1724 1364 1751">Agriculture Communications</td> </tr> <tr> <td data-bbox="565 1766 808 1793">Veterinarian Technician</td> <td data-bbox="842 1766 1086 1793">Meats Processing</td> <td></td> </tr> </table>			Animal Breeders	Zoologists	Agriculture Teacher	Animal Scientists	Wildlife Biologists	Agribusiness & Marketing	Medical Scientists	Embryologist	Agriculture Research	Veterinarians	Farm/Ranch Management	Agriculture Communications	Veterinarian Technician	Meats Processing	
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Veterinarians	Farm/Ranch Management	Agriculture Communications																
Veterinarian Technician	Meats Processing																	

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AGRICULTURE, FOOD, & NATURAL RESOURCES—Animal Science

8C500 Principles of Agriculture, Food & Natural Resources

Grade: 9

Credit: 1 State

Class Rank: 6

This course is a prerequisite for ALL agriculture courses.

Students will be prepared for careers in agriculture, food, and natural resources, as well as attain academic skills and knowledge in agriculture. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expecta-

8C176 Entrepreneurship I

Grade: 9

Credit: 1 State

Class Rank: 6

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.

This course has replaced Freshman Skills and is required of all Freshmen at MPHS to take, but is not a State mandated course

8C554 Small Animal Management

Grade: 10—12

Credit: .5 State

Class Rank: 6

Prerequisite: Successful completion of Principles of Agriculture, Food & Natural Resources. This course is paired with Equine Science.

Students will acquire knowledge and skills related to small animals and the small animal management industry. Small Animal Management may address topics related to small mammals such as dogs, cats, amphibians, reptiles and birds.

8C520 Equine Science

Grade: 10—12

Credit: .5 State

Class Rank: 6

Prerequisite: Successful completion of Principles of Agriculture, Food & Natural Resources. This course is paired with Small Animal Management.

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

8C516 Livestock Production

Grade: 11—12

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of Principles of Agriculture, Food & Natural Resources

Students will be prepared for careers in the field of animal science. Students will acquire knowledge and skills, related to animal systems and the workplace regarding career opportunities, entry requirements, and industry expectations. Animal species to be addressed in this course may include, but are not limited to: beef cattle, dairy cattle, swine, sheep, goats, and poultry.

8C556 Advanced Animal Science

Grade: 11—12

Credit: 1 State

Class Rank: 7

Prerequisite: Successful completion of Livestock Production

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. **This course counts as a science credit.**

8C571D Practicum in Agriculture—Animal Science—Dual Credit

Grade: 12

Credit: 2 State

Class Rank: 8

Successful completion of Livestock Production. Students will have the opportunity to earn college credit in AGRI 1419 through NTCC. Starting with the Class of 2029 this course (8C574D) will be a rank of 7.

This course is designed to develop a student's understanding of scientific animal agriculture. This course will cover the importance of the livestock and meat industries; the selection, reproduction, nutrition, management, and marketing of beef cattle, swine, sheep, goats, and horses.

8C428 Scientific Research and Design

Grade: 11—12

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of Biology I and Chemistry I

This course is a project-based learning course. In this course, students will learn about the nature of science, methods of scientific inquiry, and the application of scientific information in society. Students will complete independent and collaborative research projects wherein they will design and execute experiments, and present their findings using a variety of media. **This course counts as a science credit.**

8C428Q Scientific Research and Design Honors

Grade: 11—12

Credit: 1 State

Class Rank: 7

Prerequisite: Successful completion of Biology I and Chemistry I

The goal of this course is for students to experience scientific research as scientists do. They will be challenged because there is no right answer. The teacher will guide and brainstorm with students as a facilitator, but students will be expected to learn how to guide themselves. Students will learn to read and analyze scientific articles, design an experiment, ask good experimental questions, operationalize variables, gather data, analyze results and draw conclusions. Also, they will be expected to deliver presentations on their research and eventually either look for external mentors with whom they can develop their own research ideas into original scientific projects or design and carry out their own in-house, independent research. **This course counts as a science credit.**



PROGRAMS OF STUDY

Agriculture, Food, and Natural Resources

AGRICULTURE TECHNOLOGY—AG MECH



Student Organization: FFA

Level 1 Course:
Principles of Agriculture, Food, and Natural Resources

Level 2 Course:
Agriculture Mechanics and Metal Technologies

Level 3 Course:
Agricultural Structures Design and Fabrication

Level 4 Course:
Practicum in Ag—Metal Technologies
Scientific Research and Design

<p><u>Industry Certifications:</u></p> <p>AWS 1.1 Structural Steel AWS 9.1 Sheet Metal Weld.</p>	<p><u>Possible Careers:</u></p> <table border="0"> <tr> <td>Production Welder</td> <td>Farm Equipment Technician</td> <td>Agriculture Teacher</td> </tr> <tr> <td>Metal Fabrication</td> <td>Heavy Equipment Mechanic</td> <td>Agribusiness & Marketing</td> </tr> <tr> <td>Computer Aided Design CAD</td> <td>Agricultural Engineer</td> <td>Agriculture Research</td> </tr> <tr> <td>Outdoor Power Equipment</td> <td>Farm/Ranch Management</td> <td>Agriculture Communications</td> </tr> <tr> <td>Farm Equipment Mechanics</td> <td></td> <td></td> </tr> </table>	Production Welder	Farm Equipment Technician	Agriculture Teacher	Metal Fabrication	Heavy Equipment Mechanic	Agribusiness & Marketing	Computer Aided Design CAD	Agricultural Engineer	Agriculture Research	Outdoor Power Equipment	Farm/Ranch Management	Agriculture Communications	Farm Equipment Mechanics		
Production Welder	Farm Equipment Technician	Agriculture Teacher														
Metal Fabrication	Heavy Equipment Mechanic	Agribusiness & Marketing														
Computer Aided Design CAD	Agricultural Engineer	Agriculture Research														
Outdoor Power Equipment	Farm/Ranch Management	Agriculture Communications														
Farm Equipment Mechanics																

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AGRICULTURE, FOOD, & NATURAL RESOURCES—Ag Technology

8C500 Principles of Agriculture, Food & Natural Resources

Grade: 9

Credit: 1 State

Class Rank: 6

This course is a prerequisite for ALL agriculture courses.

Students will be prepared for careers in agriculture, food, and natural resources, as well as attain academic skills and knowledge in agriculture. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations.

8C535 Agricultural Mechanics & Metal Technologies

Grade: 10—12

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of Principles of Agriculture, Food & Natural Resources

This course is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, welding, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques.

8C568 Agricultural Structures Design & Fabrication

Grade: 11—12

Credit: 2 State

Class Rank: 6

Prerequisite: Successful completion of Ag Mechanics & Metal Technologies

This course is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, welding, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques.

8C572 Practicum in Agriculture—Metal Technology

Grade: 12

Credit: 2 State

Class Rank: 7

Prerequisite: Successful completion of Agricultural Structures Design & Fabrication

This practicum course is designed to give students supervised practical application of knowledge and skills as it relates to our local metal manufacturing and fabrication industry. 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.

8C428 Scientific Research and Design

Grade: 11—12

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of Biology I and Chemistry I

This course is a project-based learning course. In this course, students will learn about the nature of science, methods of scientific inquiry, and the application of scientific information in society. Students will complete independent and collaborative research projects wherein they will design and execute experiments, and present their findings using a variety of media. **This course counts as a science credit.**

8C428Q Scientific Research and Design Honors

Grade: 11—12

Credit: 1 State

Class Rank: 7

Prerequisite: Successful completion of Biology I and Chemistry I

The goal of this course is for students to experience scientific research as scientists do. They will be challenged because there is no right answer. The teacher will guide and brainstorm with students as a facilitator, but students will be expected to learn how to guide themselves. Students will learn to read and analyze scientific articles, design an experiment, ask good experimental questions, operationalize variables, gather data, analyze results and draw conclusions. Also, they will be expected to deliver presentations on their research and eventually either look for external mentors with whom they can develop their own research ideas into original scientific projects or design and carry out their own in-house, independent research. **This course counts as a science credit.**



PROGRAMS OF STUDY

Agriculture, Food, and Natural Resources

PLANT SCIENCE



Student Organization: FFA

Level 1 Course:
Principles of Agriculture, Food, and Natural Resources

Level 2 Course:
Floral Design

Level 3 Course:
Horticultural Science

Level 4 Course:
Practicum in Ag—Advanced Floral Design
Scientific Research and Design

<p>Industry Certifications: Texas State Floral Association Level One Floral Certification.</p> <p>Texas State Floral Association Floral Skills Knowledge Based Certification.</p>	<p>Possible Careers:</p> <table border="0"> <tr> <td>Soil and Plant Scientists</td> <td>Florist</td> <td>Agriculture Teacher</td> </tr> <tr> <td>Biological Technicians</td> <td>Horticulturist</td> <td>Agribusiness & Marketing</td> </tr> <tr> <td>Landscaping Supervisors</td> <td>Landscape Architect</td> <td>Agriculture Research</td> </tr> <tr> <td>Pesticide Handler</td> <td>Farm/Ranch Management</td> <td>Agriculture Communications</td> </tr> <tr> <td>Tree Trimmer and Pruners</td> <td></td> <td></td> </tr> </table>	Soil and Plant Scientists	Florist	Agriculture Teacher	Biological Technicians	Horticulturist	Agribusiness & Marketing	Landscaping Supervisors	Landscape Architect	Agriculture Research	Pesticide Handler	Farm/Ranch Management	Agriculture Communications	Tree Trimmer and Pruners		
Soil and Plant Scientists	Florist	Agriculture Teacher														
Biological Technicians	Horticulturist	Agribusiness & Marketing														
Landscaping Supervisors	Landscape Architect	Agriculture Research														
Pesticide Handler	Farm/Ranch Management	Agriculture Communications														
Tree Trimmer and Pruners																

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AGRICULTURE, FOOD, & NATURAL RESOURCES—Plant Science

8C500 Principles of Agriculture, Food & Natural Resources

Grade: 9

Credit: 1 State

Class Rank: 6

This course is a prerequisite for ALL agriculture courses.

Students will be prepared for careers in agriculture, food, and natural resources, as well as attain academic skills and knowledge in agriculture. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations.

8C176 Entrepreneurship I

Grade: 9

Credit: 1 State

Class Rank: 6

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.

This course has replaced Freshman Skills and is required of all Freshmen at MPHS to take, but is not a State mandated course

8C540 Floral Design

Grade: 10—12

Credit: 1 State

Class Rank: 6

*Prerequisite: Successful completion of Principles of Agriculture, Food & Natural Resources. ****Supplies or material fee \$40 required*****

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. Through the analysis of artistic floral styles and historical periods, students develop respect for the traditions and contributions of diverse cultures. Students respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations. **This course counts as a Fine Art credit.**

8C544 Horticultural Science

Grade: 11—12

Credit: 2 State

Class Rank: 6

Prerequisite: Successful completion of Floral Design

This course is designed to develop an understanding of common horticultural management practices as they relate to food and ornamental plant production.

8C542 Advanced Floral Design

Grade: 11—12

Credit: 1 State

Class Rank: 7

*Prerequisite: Successful completion of Floral Design. **Supplies or material fee \$40 required***

This course is designed to build on the students' 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 occasions and event types, students explore the design needs and expectations of clients, 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.

8C573 Practicum in Agriculture—Horticulture Science

Grade: 12

Credit: 2 State

Class Rank: 7

Prerequisite: Successful completion of Horticultural Science

This course is designed to prepare students in the broad field of agriculture. Agriculture students will be provided real life experiences, opportunities, industry requirements and skills in the horticulture and floral design industries.

8C428 Scientific Research and Design

Grade: 11—12

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of Biology I and Chemistry I

This course is a project-based learning course. In this course, students will learn about the nature of science, methods of scientific inquiry, and the application of scientific information in society. Students will complete independent and collaborative research projects wherein they will design and execute experiments, and present their findings using a variety of media. **This course counts as a science credit.**

8C428Q Scientific Research and Design Honors

Grade: 11—12

Credit: 1 State

Class Rank: 7

Prerequisite: Successful completion of Biology I and Chemistry I

The goal of this course is for students to experience scientific research as scientists do. They will be challenged because there is no right answer. The teacher will guide and brainstorm with students as a facilitator, but students will be expected to learn how to guide themselves. Students will learn to read and analyze scientific articles, design an experiment, ask good experimental questions, operationalize variables, gather data, analyze results and draw conclusions. Also, they will be expected to deliver presentations on their research and eventually either look for external mentors with whom they can develop their own research ideas into original scientific projects or design and carry out their own in-house, independent research. **This course counts as a science credit.**



PROGRAMS OF STUDY

Architecture and Construction

CARPENTRY



Student Organization: Skills USA

Level 1 Course:
Principles of Construction

Level 2 Course:
Construction Technology I

Level 3 Course:
Construction Technology II

Level 4 Course:
Practicum in Construction Technology

<p><u>Industry Certifications:</u></p> <p>NCCER Core</p>	<p><u>Possible Careers:</u></p> <table border="0"> <tr> <td>Carpenters</td> <td>Construction Inspector</td> </tr> <tr> <td>Cost Estimators</td> <td>Drywall & Ceiling Installer</td> </tr> <tr> <td>Brickmason/Blockmason</td> <td>Construction Manager</td> </tr> <tr> <td>Cabinet & Bench Maker</td> <td>Painter</td> </tr> <tr> <td>Carpenter Helper</td> <td>Roofer</td> </tr> </table>	Carpenters	Construction Inspector	Cost Estimators	Drywall & Ceiling Installer	Brickmason/Blockmason	Construction Manager	Cabinet & Bench Maker	Painter	Carpenter Helper	Roofer
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Cost Estimators	Drywall & Ceiling Installer										
Brickmason/Blockmason	Construction Manager										
Cabinet & Bench Maker	Painter										
Carpenter Helper	Roofer										

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ARCHITECTURE & CONSTRUCTION - Carpentry

8C909 Principles of Construction

Grade: 9—10

Credit: 1 State

Class Rank: 6

This course is a prerequisite for ALL Construction or Electrical courses.

This course will provide an introduction and lay a solid foundation for those students entering the construction or electrical technology fields. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. Students will learn skills such as problem solving, critical thinking, safety, health, environmental, leadership, and teamwork. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

8C176 Entrepreneurship I

Grade: 9

Credit: 1 State

Class Rank: 6

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.

This course has replaced Freshman Skills and is required of all Freshmen at MPHS to take, but is not a State mandated course

8C911 Construction Technology I

Grade: 10—12

Credit: 2 State

Class Rank: 6

Prerequisite: Successful completion of Principles of Construction.

Students will gain knowledge and skills specific to those needed to enter the work force as carpenters or building maintenance supervisors or build a foundation toward a postsecondary degree in architecture, construction science, drafting, or engineering. This course includes the knowledge of the design techniques and tools related to the management of architectural and engineering projects.

8C920 Construction Technology II

Grade: 11—12

Credit: 2 State

Class Rank: 6

Prerequisite: Successful completion of Construction Technology I

Students will continue to gain knowledge and skills specific to those needed to enter the work force as carpenters or building maintenance supervisors or build a foundation toward a postsecondary degree in architecture, construction science, drafting, or engineering. This course includes the knowledge of the design techniques and tools related to the management of architectural and engineering projects.

8C951 Practicum in Construction Technology

Grade: 12

Credit: 2 State

Class Rank: 7

Prerequisite: Successful completion of Construction Technology II

This course is an occupationally specific course designed to provide classroom technical instruction or on-the-job training experiences. Safety and career opportunities are included in addition to work ethics and job-related study in the classroom.



PROGRAMS OF STUDY

Arts, Audio Video Technology, and Communications

DESIGN & MULTIMEDIA ARTS—FASHION DESIGN



Student Organization: FBLA and FCCLA

Level 1 Course:
Digital Art and Animation

Level 2 Course:
Fashion Design I

Level 3 Course:
Fashion Design II

Level 4 Course:
Practicum in Fashion Design

<p><u>Industry Certifications:</u> Adobe Visual Design Adobe Graphics Design</p>	<p><u>Possible Careers:</u></p> <table border="0"> <tr> <td>Fashion Designer</td> <td>Assistant Buyer</td> <td>Fashion Editor</td> </tr> <tr> <td>Assistant Designer</td> <td>Merchandise Manager</td> <td>AV Teacher</td> </tr> <tr> <td>Pattern Maker</td> <td>Design Director</td> <td></td> </tr> <tr> <td>Fashion Merchandiser</td> <td>Fashion Director</td> <td></td> </tr> <tr> <td>Fashion Buyer</td> <td>Visual Merchandising Director</td> <td></td> </tr> </table>	Fashion Designer	Assistant Buyer	Fashion Editor	Assistant Designer	Merchandise Manager	AV Teacher	Pattern Maker	Design Director		Fashion Merchandiser	Fashion Director		Fashion Buyer	Visual Merchandising Director	
Fashion Designer	Assistant Buyer	Fashion Editor														
Assistant Designer	Merchandise Manager	AV Teacher														
Pattern Maker	Design Director															
Fashion Merchandiser	Fashion Director															
Fashion Buyer	Visual Merchandising Director															

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DESIGN AND MULTIMEDIA ARTS—Fashion Design

8C243 Digital Art & Animation

Grade: 9—12

Credit: 1 State

Class Rank: 6

Digital Art is a class where you will learn software tools such as Adobe Photoshop and Illustrator to create digital art for print. You will learn to edit and adjust photographs, create original photo manipulations, original illustrations, and commercial art. This will include the study of art theory concepts such as the elements of art, principles of design, typography, composition, and color theory. Students will use photography, image manipulation and digital drawing tablets in this project-based class. **This course counts as a fine art credit.**

8C176 Entrepreneurship I

Grade: 9

Credit: 1 State

Class Rank: 6

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.

This course has replaced Freshman Skills and is required of all Freshmen at MPHS to take, but is not a State mandated course

8C680 Fashion Design I

Grade: 10—12

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of any Principles class

Fashion spans all aspects of the textile and apparel industries. Students will be expected to develop an understanding of the fashion industry with an emphasis on design and construction in addition to developing technical knowledge and skills needed for success in the fashion industry. Students will gain an understanding of the laws and regulations within the fashion industry, identify types and uses of various textiles, interpret labels, evaluate the industry that is fashion, and learn basic garment design and construction. Students are encouraged to participate in extended learning experiences such as career and technical organizations and other leadership or extracurricular organizations.

8C682 Fashion Design II

Grade: 11—12

Credit: 2 State

Class Rank: 6

Prerequisite: Successful completion of Fashion Design I

Students will be expected to develop an understanding of the fashion industry with an emphasis on design and construction. Students will expand their understanding of the fashion design industry and improve their design and construction skills. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

8C683 Practicum in Fashion Design

Grade: 12

Credit: 2 State

Class Rank: 7

Prerequisite: Successful completion of Fashion Design II

Students will be expected to develop an advanced technical understanding of the business aspects of the fashion industry, with an emphasis on promotion and retailing. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.



PROGRAMS OF STUDY

Arts, Audio Video Technology, and Communications

DESIGN & MULTIMEDIA ARTS—GRAPHIC DESIGN



Student Organization: FBLA

Level 1 Course:
Digital Art and Animation

Level 2 Course:
Graphic Design I (Newspaper)

Level 3 Course:
Graphic Design II (Newspaper/Magazine)

Level 4 Course:
Practicum in Graphic Design

<u>Industry Certifications:</u> Cert Prof in graphic design using adobe illustrator	<u>Possible Careers:</u>		
	Graphic Designers	Editor	Journalism Teacher
	Multimedia Artists	Film and Video Editor	Computer Programmer
	Animators	TV Camera Operator	Broadcast Technician
	Photographer	TV Reporter	Video Producer
	Writer	TV Anchor	

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DESIGN AND MULTIMEDIA ARTS—Graphic Design

8C243 Digital Art & Animation

Grade: 9—12

Credit: 1 State

Class Rank: 6

Digital Art is a class where you will learn software tools such as Adobe Photoshop and Illustrator to create digital art for print. You will learn to edit and adjust photographs, create original photo manipulations, original illustrations, and commercial art. This will include the study of art theory concepts such as the elements of art, principles of design, typography, composition, and color theory. Students will use photography, image manipulation and digital drawing tablets in this project-based class. **This course counts as a fine art credit.**

8C176 Entrepreneurship I

Grade: 9

Credit: 1 State

Class Rank: 6

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.

This course has replaced Freshman Skills and is required of all Freshmen at MPHS to take, but is not a State mandated course

8C259 Graphic Design and Illustration I

Grade: 10—12

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of Principles of Arts, A/V Tech & Communications or Digital Art

Students will develop technical knowledge and skills needed for success in the Arts, A/V Tech, & Communication career cluster. Students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design. Students will produce the school newspaper, “Tiger Talk”, five times throughout the year. In addition, students will contribute to other campus and district publications.

8C263 Graphic Design and Illustration II

Grade: 11—12

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of Graphic Design I

This is an advanced class limited to the staff of the school newspaper, “Tiger Talk”. It is designed for students who have demonstrated competency in reporting, editing, design and production skills in Graphic Design I. It is a laboratory course structured to permit students to make practical application of previously learned skills and to apply new skills by using desktop publishing to produce the school newspaper. This project-based course focuses on real-world audiences as customers. Students will learn to use the collection of software tools and design techniques to create a variety of formatted products. Students enrolled in this course will be computer literate and have experience with basic electronic productivity tools. These students are encouraged to participate in Journalism UIL.

8C264 Practicum in Graphic Design and Illustration - Magazine Production

Grade: 12

Credit: 2 State

Class Rank: 7

This course is designed to acquaint the student with the procedures and development of magazine production. The class will cover creating, designing, writing, photography, and the tools needed to produce a district magazine at least twice a year. Students will create a variety of projects other than the magazine as well. This course is open to all twelfth grade students, even without previous courses in graphic design.



PROGRAMS OF STUDY

Arts, Audio Video Technology, and Communications

DESIGN & MULTIMEDIA ARTS—YEARBOOK



Student Organization: FBLA

Level 1 Course:
Digital Art and Animation

Level 2 Course:
Commercial Photography I

Level 3 Course:
Commercial Photo II- (Yearbook I)

Level 4 Course:
Practicum in Commercial Photo-(Yearbook II)

<p><u>Industry Certifications:</u> Adobe Photoshop</p>	<p><u>Possible Careers:</u></p> <table border="0"> <tr> <td>Graphic Designers</td> <td>Editor</td> <td>Journalism Teacher</td> </tr> <tr> <td>Multimedia Artists</td> <td>Film and Video Editor</td> <td>Computer Programmer</td> </tr> <tr> <td>Animators</td> <td>TV Camera Operator</td> <td>Broadcast Technician</td> </tr> <tr> <td>Photographer</td> <td>TV Reporter</td> <td>Video Producer</td> </tr> <tr> <td>Writer</td> <td>TV Anchor</td> <td></td> </tr> </table>			Graphic Designers	Editor	Journalism Teacher	Multimedia Artists	Film and Video Editor	Computer Programmer	Animators	TV Camera Operator	Broadcast Technician	Photographer	TV Reporter	Video Producer	Writer	TV Anchor	
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Multimedia Artists	Film and Video Editor	Computer Programmer																
Animators	TV Camera Operator	Broadcast Technician																
Photographer	TV Reporter	Video Producer																
Writer	TV Anchor																	

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DESIGN AND MULTIMEDIA ARTS—Yearbook

8C243 Digital Art & Animation

Grade: 9—12

Credit: 1 State

Class Rank: 6

Digital Art is a class where you will learn software tools such as Adobe Photoshop and Illustrator to create digital art for print. You will learn to edit and adjust photographs, create original photo manipulations, original illustrations, and commercial art. This will include the study of art theory concepts such as the elements of art, principles of design, typography, composition, and color theory. Students will use photography, image manipulation and digital drawing tablets in this project-based class. **This course counts as a fine art credit.**

8C176 Entrepreneurship I

Grade: 9

Credit: 1 State

Class Rank: 6

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.

This course has replaced Freshman Skills and is required of all Freshmen at MPHS to take, but is not a State mandated course

8C252 Commercial Photography I

Grade: 10—12

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of Principles of Arts, A/V Tech or Digital Art & Animation

Students enrolled in this course will have the opportunity to develop an understanding of digital photography with the focus on creating quality photographs. Students will learn all aspects of photography from the basic and advanced settings of the camera, how to arrange photos, how to take pictures in various settings, editing photos and producing them for a variety of publications. Students will expand on their knowledge of Adobe Photoshop, giving them the skills to edit photos in a variety of ways. Through this course, students also would have the opportunity to earn an industry recognized certification.

8C253 Commercial Photography II (Yearbook I)

Grade: 11—12

Credit: 1 State

Class Rank: 6

*Prerequisite: Successful completion of Commercial Photography. **The school yearbook development and production will be one activity of this course.***

Students will learn the techniques and skills necessary for graphic design and illustration. Studies will include history of visual arts and design, artwork in various cultures, and critiquing of artwork. Students will learn how to develop 2 and 3 dimensional projects using industry standard software. Software used in this class will include Adobe Photoshop, Adobe Illustrator and Adobe InDesign. This course is both lab and lecture based.

8C258 Practicum in Commercial Photography (Yearbook II)

Grade: 12

Credit: 2 State

Class Rank: 7

*Prerequisite: Successful completion of Yearbook I. **The school yearbook development and production will be one activity of this course.***

Careers in graphic design and illustration span all aspects of the advertising and visual communications industry. Within this context, in addition to developing advanced technical knowledge and skills needed for success in the Arts, A/V Tech, & Communications career cluster, students will be expected to develop an advanced understanding of the industry with a focus on mastery of content knowledge and skills.



PROGRAMS OF STUDY

Arts, Audio Video Technology, and Communications

DIGITAL COMMUNICATIONS—AV PRODUCTION



Student Organization: FBLA

Level 1 Course:
Digital Art and Animation

Level 2 Course:
Audio/Video Production I

Level 3 Course:
Audio/Video Production II

Level 4 Course:
Practicum in Audio/Video Production—TNT

<p>Industry Certifications: -Adobe Visual Design Photoshop- -Adobe Print and Digital Media Pub-</p>	<p>Possible Careers:</p> <table border="0"> <tr> <td>Graphic Designers</td> <td>Editor</td> <td>Journalism Teacher</td> </tr> <tr> <td>Multimedia Artists</td> <td>Film and Video Editor</td> <td>Computer Programmer</td> </tr> <tr> <td>Animators</td> <td>TV Camera Operator</td> <td>Broadcast Technician</td> </tr> <tr> <td>Photographer</td> <td>TV Reporter</td> <td>Video Producer</td> </tr> <tr> <td>Writer</td> <td>TV Anchor</td> <td></td> </tr> </table>	Graphic Designers	Editor	Journalism Teacher	Multimedia Artists	Film and Video Editor	Computer Programmer	Animators	TV Camera Operator	Broadcast Technician	Photographer	TV Reporter	Video Producer	Writer	TV Anchor	
Graphic Designers	Editor	Journalism Teacher														
Multimedia Artists	Film and Video Editor	Computer Programmer														
Animators	TV Camera Operator	Broadcast Technician														
Photographer	TV Reporter	Video Producer														
Writer	TV Anchor															

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DESIGN AND MULTIMEDIA ARTS—A/V Production

8C243 Digital Art & Animation

Grade: 9—12

Credit: 1 State

Class Rank: 6

Digital Art is a class where you will learn software tools such as Adobe Photoshop and Illustrator to create digital art for print. You will learn to edit and adjust photographs, create original photo manipulations, original illustrations, and commercial art. This will include the study of art theory concepts such as the elements of art, principles of design, typography, composition, and color theory. Students will use photography, image manipulation and digital drawing tablets in this project-based class. **This course counts as a fine art credit.**

8C176 Entrepreneurship I

Grade: 9

Credit: 1 State

Class Rank: 6

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.

This course has replaced Freshman Skills and is required of all Freshmen at MPHS to take, but is not a State mandated course

8C251 Audio/Video Production I

Grade: 10—12

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of Principles of Arts, A/V Tech & Communications or Digital Art

This course will explore the Audio & Video production industry and span all aspects of the communications industry. Students will be involved in every aspect of several class and small group audio, video, and film style production projects with emphasis on live multi-camera video and film style production projects. Students will focus on pre-production, production, and post-production audio and video activities.

8C261 Audio/Video Production II

Grade: 11—12

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of Audio/Video Production I

Students will work on several audio and/or video productions that will be shown online, the district's websites, etc. Students will to work on TNT (Tiger News Talk) with enhanced responsibilities such as directing, editing and creating video productions. Students will explore career opportunities in the industry. Some outside classroom work will be required.

8C262 Practicum in Audio/Video Production—TNT (Tiger News Talk)

Grade: 11—12

Credit: 2 State

Class Rank: 7

Prerequisite: Successful completion of Audio/Video Production II

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, A/V Tech, & Communication career cluster. Students will be expected to develop and understanding of the industry with a focus on pre-production, production, and post-production audio and video activities.



PROGRAMS OF STUDY

Business, Marketing, and Finance

ACCOUNTING & FINANCIAL SERVICES



Student Organization: FBLA

Level 1 Course:

Principles of Business, Marketing, & Finance
 Foundations of Business Communication
 and Technologies

Level 2 Course:

Accounting I

Level 3 Course:

Accounting II

Level 4 Course:

Practicum in Entrepreneurship

<p><u>Industry Certifications:</u></p> <p>Microsoft Excel 2019</p>	<p><u>Possible Careers:</u></p> <table border="0"> <tr> <td>Accountants</td> <td>Financial Comptroller</td> </tr> <tr> <td>Auditors</td> <td>Financial Examiner</td> </tr> <tr> <td>Personal Finance Advisors</td> <td>Financial Manager</td> </tr> <tr> <td>Administrative Service Managers</td> <td>Business Analyst</td> </tr> <tr> <td>Insurance Underwriters</td> <td></td> </tr> </table>	Accountants	Financial Comptroller	Auditors	Financial Examiner	Personal Finance Advisors	Financial Manager	Administrative Service Managers	Business Analyst	Insurance Underwriters	
Accountants	Financial Comptroller										
Auditors	Financial Examiner										
Personal Finance Advisors	Financial Manager										
Administrative Service Managers	Business Analyst										
Insurance Underwriters											

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ACCOUNTING & FINANCIAL SERVICES

8C101 Principles of Business, Marketing, & Finance

Grade: 8—10

Credit: 1 State

Class Rank: 6

This course is a prerequisite for ALL business, finance, & marketing courses.

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

8C176 Entrepreneurship I

Grade: 9

Credit: 1 State

Class Rank: 6

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.

This course has replaced Freshman Skills and is required of all Freshmen at MPHS to take, but is not a State mandated course

8C122 Foundations of Business Communication & Technologies

Grade: 9—12

Credit: 1 State

Class Rank: 6

Students will implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students will apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software. Students are encouraged to join Future Business Leaders of America (FBLA) to enhance their leadership skills.

8C155 Accounting I

Grade: 11—12

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of Business Information Management I (& Foundations of Business Communication & Technology)

This course introduces general accounting concepts, principles and procedures. Emphasizes the need for financial records; provides the fundamental equation and its application to accounting procedures, including the basic steps of the accounting cycle; special journals and ledgers; work sheets; adjusting and closing entries; special problems in the purchase and sale of merchandise; promissory notes and interest; depreciation; accruals and prepaid items; payroll records; and personal income taxes.

8C161 Accounting II

Grade: 12

Credit: 1 State

Class Rank: 7

Prerequisite: Successful completion of Accounting I

This course provides for review and further development of fundamental accounting principles with extensive use of technology, incorporates complete accounting cycle in relation to formation and dissolution of partnerships. This course includes adjustments of bad debts, depreciation, depletion of fixed assets, adjusted and accrued income, various methods of inventory control, preparation of business budgets and promissory notes receivable and payable. It provides experience in initiating and maintaining an accounting system and in analyzing, interpreting, and synthesizing managerial problems using accounting information as a tool; and develops skill in applying principles used in accounting systems and methods commonly found in business. Accounting II is designed for students interested in studying accounting at the post-secondary level or entering the workforce. This course counts as a math credit.

8C178 Practicum of Entrepreneurship I

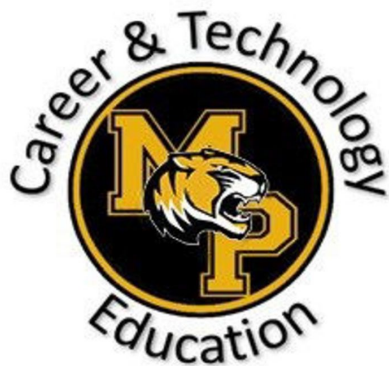
Grade: 11—12

Credit: 2 State

Class Rank: 7

Prerequisite: Accounting II or Concurrent Enrollment in Accounting II

The Practicum in Entrepreneurship provides students the opportunity to apply classroom learnings and experiences to real-world business problems and opportunities, while expanding their skill sets and professional relationships as a real or simulated business owner versus the experience one would have as an employee. Students will prepare for an entrepreneurial career in their area of interest in their career cluster and build on and apply the knowledge and skills gained from courses taken in an array of career areas. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of the student's need for work-based learning experience. 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. It is recommended that students are paired with local business owners or employers in their specific industry program of study.



PROGRAMS OF STUDY

Business, Marketing, and Finance

ENTREPRENEURSHIP



Student Organization:

Level 1 Course:

Principles of Business, Marketing, and Finance
 Foundations of Business Communication
 and Technologies

Level 2 Course:

Entrepreneurship I

Level 3 Course:

Entrepreneurship II

Level 4 Course:

Practicum in Entrepreneurship

Industry Certifications:

Entrepreneurship and Small Business

Possible Careers:

All career interest apply to this pathway

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ENTREPRENEURSHIP

8C101 Principles of Business, Marketing, & Finance

Grade: 8—10

Credit: 1 State

Class Rank: 6

This course is a prerequisite for ALL business, finance, & marketing courses.

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

8C122 Foundations of Business Communication & Technologies

Grade: 9—12

Credit: 1 State

Class Rank: 6

Students will implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students will apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software. Students are encouraged to join Future Business Leaders of America (FBLA) to enhance their leadership skills.

8C176 Entrepreneurship I

Grade: 9

Credit: 1 State

Class Rank: 6

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.

This course has replaced Freshman Skills and is required of all Freshmen at MPHS to take, but is not a State mandated course

8C177 Entrepreneurship II

Grade: 10—12

Credit: 1 State

Class Rank: 7

The recommended participants are students in the CTE Entrepreneurship Program of Study, and those interested in starting a business

The purpose of this course is to prepare students with the knowledge and skills needed to become a successful entrepreneur within an innovative marketplace. The goal and outcome of the course is for students to have their business launched by the end of the course or have the tools necessary to launch and operate their business. Students are encouraged to work in close cooperation with local industry leaders, community members, and educators to develop ideas and objectives, complete a business model canvas, pitch to potential investors, register with governmental agencies, develop their brand identity, and participate in local Chamber of Commerce meetings and events.

8C178 Practicum of Entrepreneurship I

Grade: 11—12

Credit: 2 State

Class Rank: 7

The Practicum in Entrepreneurship provides students the opportunity to apply classroom learnings and experiences to real-world business problems and opportunities, while expanding their skill sets and professional relationships as a real or simulated business owner versus the experience one would have as an employee. Students will prepare for an entrepreneurial career in their area of interest in their career cluster and build on and apply the knowledge and skills gained from courses taken in an array of career areas. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of the student's need for work-based learning experience. 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. It is recommended that students are paired with local business owners or employers in their specific industry program of study.



PROGRAMS OF STUDY

Business, Marketing, & Finance

MARKETING AND SALES



Student Organization: FBLA

Level 1 Course:
Principles of Business, Marketing, & Finance

Level 2 Course:
Sports & Entertainment Marketing and Fashion Marketing

Level 3 Course:
Sports & Entertainment Marketing II and Advertising

Level 4 Course:
Practicum in Marketing/ Entrepreneurship

<p>Industry Certifications: Entrepreneurship and Small Business</p> <p>Stukent Social Media Marketing</p>	<p>Possible Careers:</p> <table border="0"> <tr> <td>Market Research Analysts</td> <td>Advertising Manager</td> <td>Marketing Manager</td> </tr> <tr> <td>Marketing Specialist</td> <td>E-Sales Manager</td> <td>Technical Sales</td> </tr> <tr> <td>Insurance Sales Agent</td> <td>Exhibit Designer</td> <td>Marketing Teacher</td> </tr> <tr> <td>First-Line Supervisor of Retail</td> <td>Realtor</td> <td></td> </tr> <tr> <td>Wholesale & Retail Buyers</td> <td>International Distributor</td> <td></td> </tr> </table>	Market Research Analysts	Advertising Manager	Marketing Manager	Marketing Specialist	E-Sales Manager	Technical Sales	Insurance Sales Agent	Exhibit Designer	Marketing Teacher	First-Line Supervisor of Retail	Realtor		Wholesale & Retail Buyers	International Distributor	
Market Research Analysts	Advertising Manager	Marketing Manager														
Marketing Specialist	E-Sales Manager	Technical Sales														
Insurance Sales Agent	Exhibit Designer	Marketing Teacher														
First-Line Supervisor of Retail	Realtor															
Wholesale & Retail Buyers	International Distributor															

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MARKETING & SALES

8C101 Principles of Business, Marketing, & Finance

Grade: 8—10

Credit: 1 State

Class Rank: 6

This course is a prerequisite for ALL business, finance, & marketing courses.

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

8C176 Entrepreneurship I

Grade: 9

Credit: 1 State

Class Rank: 6

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.

This course has replaced Freshman Skills and is required of all Freshmen at MPHS to take, but is not a State mandated course

8C180 Sports & Entertainment Marketing

Grade: 9—12

Credit: .5 State

Class Rank: 6

Prerequisite: Successful completion of Principles of Business, Marketing, & Finance. This course is paired with Fashion Marketing.

This course will provide students with an understanding of the marketing concepts that apply to sports, sporting events and entertainment. The student will get to learn about promotional plans, sponsorship proposals, endorsement contracts, and sports and entertainment marketing plans.

8C185 Fashion Marketing

Grade: 9—12

Credit: .5 State

Class Rank: 6

Prerequisite: Successful completion of Principles of Business, Marketing, & Finance. This course is paired with Sports & Entertainment Marketing.

Fashion marketing is for the student who would like to learn more about the fashion industry. The course will explore the fundamentals of marketing techniques and activities as they are employed in the fashion business.

8C181 Sports & Entertainment Marketing II

Grade: 10—12

Credit: .5 State

Class Rank: 6

Prerequisite: Successful completion of Sports & Entertainment Marketing/Fashion Marketing. This course is paired with Advertising

This course is an advanced course designed to build upon the student's prior knowledge of sports & entertainment marketing. Students will develop a thorough understanding of advanced marketing concepts and theories as they relate to the sports and entertainment industries. Students will investigate the components of branding, sponsorships and endorsements, as well as promotion plans needed for sports and entertainment events. This course also supports career development skills and explores career options.

8C186 Advertising

Grade: 11—12

Credit: .5 State

Class Rank: 6

Prerequisite: Successful completion of Sports & Entertainment Marketing/Fashion Marketing. This course is paired with Sports & Entertainment Marketing II.

This course is designed as a comprehensive introduction to the principles and practices of advertising. Students will gain knowledge of techniques used in current advertising, including print, broadcast, and digital media. The course explores the social, cultural, ethical, and legal issues of advertising, historical influences, strategies, media decision processes as well as integrated marketing communications, and careers in advertising and sales promotion. The course provides an overview of how communication tools can be used to reach target audiences and increase consumer knowledge.

8C187 Practicum of Marketing I

Grade: 11—12

Credit: 2 State

Class Rank: 7

Practicum in Marketing is a series of dynamic activities that focus on the customer to generate a profitable exchange. Students will 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 will integrate skills from academic subjects, information technology, interpersonal communication, and management training to make responsible decisions.



PROGRAMS OF STUDY

Business, Marketing, and Finance

REAL ESTATE



Student Organization:

Level 1 Course:
Principles of Business, Marketing, and Finance

Level 2 Course:
Entrepreneurship 1

Level 3 Course:
Fundamentals of Real Estate

Level 4 Course:
Practicum in Entrepreneurship
Career Prep for Program of Study

<p><u>Industry Certifications:</u> Real Estate Sales Agent License</p>	<p><u>Possible Careers:</u> Real Estate Agent</p>
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REAL ESTATE

8C101 Principles of Business, Marketing, & Finance

Grade: 8—10

Credit: 1 State

Class Rank: 6

This course is a prerequisite for ALL business, finance, & marketing courses.

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

8C176 Entrepreneurship I

Grade: 9

Credit: 1 State

Class Rank: 6

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.

This course has replaced Freshman Skills and is required of all Freshmen at MPHS to take, but is not a State mandated course

8C9100 Fundamentals of Real Estate

Grade: 10—12

Credit: 2 State

Class Rank: 7

Prerequisite: Successful completion of Entrepreneurship I

This course contains the curriculum necessary to complete the pre-licensure education requirements of the Texas Real Estate Commission (TREC) to obtain a real estate salesperson license. Includes the following TREC course materials: Principles of Real Estate I and II, Law of Contracts, Law of Agency, Real Estate Finance, and Promulgated Contract Forms.

8C178 Practicum of Entrepreneurship I

Grade: 11—12

Credit: 2 State

Class Rank: 7

Prerequisite: Successful completion of Fundamentals of Real Estate

The Practicum in Entrepreneurship provides students the opportunity to apply classroom learnings and experiences to real-world business problems and opportunities, while expanding their skill sets and professional relationships as a real or simulated business owner versus the experience one would have as an employee. Students will prepare for an entrepreneurial career in their area of interest in their career cluster and build on and apply the knowledge and skills gained from courses taken in an array of career areas. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of the student's need for work-based learning experience. 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. It is recommended that students are paired with local business owners or employers in their specific industry program of study.

8C179 Career Preparation for Program of Study

Grade: 11—12

Credit: 2 State

Class Rank: 7

Prerequisite: Successful completion of Practicum of Entrepreneurship I

This course provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career Preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepare students for college and career success.



PROGRAMS OF STUDY

Cosmetology and Personal Care Services

COSMETOLOGY



Student Organization: MPHS
Cosmetology Club
Co

Level 1 Course:
Any CTE Principles Course

Level 2 Course:
Introduction to Cosmetology

Level 3 Course:
Cosmetology I

Level 4 Course:
Cosmetology II

Industry Certifications: Cosmetology Operator License	Possible Careers:		
	Cosmetologist	Manicurist	Theatre and Movie Stylist
	Barber	Salon Owner	Resort and Cruise Ship Stylist
	Hair Color Specialist	Salon Manager	Editorial/Advertising Stylist
	Texture Specialist	Makeup Artist	Skincare Specialist
	Esthetician	Fashion Show Stylist	Mortuary Makeup and HairStylist

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COSMETOLOGY

8C176 Entrepreneurship I

Grade: 9

Credit: 1 State

Class Rank: 6

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.

This course has replaced Freshman Skills and is required of all Freshmen at MPHS to take, but is not a State mandated course

8C655 Introduction to Cosmetology

Grade: 10 ONLY

Credit: 1 State

Class Rank: 6

Prerequisite: Completion of enrollment review process and \$25.00 fee is required.

This is a one-credit theory based course designed for students interested in a career in cosmetology. This course will allow students to develop strong interpersonal skills and research careers in the beauty industry. Areas of exploration include: history of cosmetology, rules and regulations from Texas Department of Licensing and Regulation, general sciences, skin care and business skills. Students planning to enroll in this program must have the Prepaid card for the required permit to earn clock hours the first week of class. Students not attaining a permit the first week of school will be dropped from the class.

8C651 Cosmetology I

Grade: 11 ONLY

Credit: 3 State

Class Rank: 6

Prerequisite: Application required and Instructor approval. Successful completion of Introduction to Cosmetology or good attendance record and recommendation letter. \$450.00 kit fee required on first day of instruction.

This is the first of a two year, three-credit sequenced state licensed, 1000-hour Cosmetology course; which involves the study of hair, skin, nails and their related care. Students study and practice in a salon lab setting, using mannequins, each other and the general public as clientele for skill development. The program emphasizes safety and sanitation, professionalism, and leadership. Students develop technical skills and knowledge in hair color and chemical texture services, as well as hair design and haircutting. Students planning to enroll in this program must have a \$25.00 Prepaid Visa or MasterCard if they did not take Introduction to cosmetology and a letter of recommendation from a teacher. ****Students will not be allowed to work on the clinic floor without required kit. Students will be required to complete the minimum 500 clock hours to advance to Cosmetology II.**

8C661 Cosmetology II

Grade: 12 ONLY

Credit: 3 State

Class Rank: 7

Prerequisite: Successful completion of Cosmetology I and 500 clock hours. Estimated \$200.00 exam fee required .

This is the final year of a two year, three-credit sequenced state licensed, 1000-hour Cosmetology course; which involves the study of hair, skin, nails and their related care. Students study and practice in a salon lab setting, using mannequins, each other and the general public as clientele for skill development. The program emphasizes advanced training and techniques in cosmetology, in addition to preparing students to take the Texas Department of Licensing and Regulation Cosmetology Exam. To receive credit for this course, the student must have completed all practical applications and be scheduled to take the Texas Department of Licensing and Regulation exam for cosmetologist. Upon passing the state board exams, the student will be a licensed cosmetologist in the State of Texas.



PROGRAMS OF STUDY

Hospitality and Tourism

CULINARY ARTS



Student Organization: Skills USA

Level 1 Course:
Principles of Hospitality

Level 2 Course:
Intro to Culinary Arts

Level 3 Course:
Culinary Arts

Level 4 Course:
Practicum in Culinary Arts

<p><u>Industry Certifications:</u> Food Handlers Certificate</p> <p>Servsafe Management Certification</p>	<p><u>Possible Careers:</u></p> <table border="0"> <tr> <td>Food and Beverage Manager</td> <td>Pastry Chef and Bakers</td> <td>Culinary Arts Teacher</td> </tr> <tr> <td>Chef and Head Cooks</td> <td>Restaurant Owners</td> <td>Hotel Management</td> </tr> <tr> <td>Food Science Technicians</td> <td>Barista</td> <td>Maitre D'</td> </tr> <tr> <td>Restaurant Worker</td> <td>Food Service Vendor</td> <td>Caterer</td> </tr> <tr> <td>Personal Chef</td> <td></td> <td></td> </tr> </table>			Food and Beverage Manager	Pastry Chef and Bakers	Culinary Arts Teacher	Chef and Head Cooks	Restaurant Owners	Hotel Management	Food Science Technicians	Barista	Maitre D'	Restaurant Worker	Food Service Vendor	Caterer	Personal Chef		
Food and Beverage Manager	Pastry Chef and Bakers	Culinary Arts Teacher																
Chef and Head Cooks	Restaurant Owners	Hotel Management																
Food Science Technicians	Barista	Maitre D'																
Restaurant Worker	Food Service Vendor	Caterer																
Personal Chef																		

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CULINARY ARTS

8C176 Entrepreneurship I

Grade: 9

Credit: 1 State

Class Rank: 6

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.

This course has replaced Freshman Skills and is required of all Freshmen at MPHS to take, but is not a State mandated course

8C451 Principles of Hospitality

Grade: 9—10

Credit: 1 State

Class Rank: 6

This course introduces students to an industry that encompasses lodging, travel, tourism, recreation, amusements, attractions, and food/beverage operations. Students learn knowledge and skills focusing on communication, time management, and customer service that meet industry standards. Students will explore the history of the hospitality and tourism industry and examine characteristics needed for success in that industry.

8C454 Introduction to Culinary Arts

Grade: 9-10

Credit: 1 State

Class Rank: 6

This course is the first course in a program of study designed to provide training opportunities in the food service and hospitality industries. The course will concentrate on skills and attributes needed to fill entry-level culinary and food service positions. Instruction includes training in the fundamentals of basic food production, nutrition, and sanitation, and restaurant management and services. As part of the instructions, refinement of basic skills is provided to assist students in directions, practicing communication skills, utilizing listening skills to follow direction, practicing basic math skills as applied to a culinary arts setting, and reading to gain information and to perform assignments and tasks as directed. Students will gain insight into a career in restaurants, Food/Beverage Services, and Culinary Arts.

8C461 Culinary Arts

Grade: 10—12

Credit: 2 State

Class Rank: 6

Begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification, a Texas culinary specialist certification, or any other appropriate industry certification. This course may be offered as a laboratory-based or internship course. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

8C473 Practicum in Culinary Arts

Grade: 12

Credit: 3 State

Class Rank: 7

*Prerequisite: Successful completion of Culinary Arts *Students must have already obtained the Food Handler's certification prior to taking this course.*

This 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. Practicum in Culinary Arts integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace. Students are taught employability skills, which include job-specific skills applicable to their training plan, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Practicum in Culinary Arts is relevant and rigorous, supports student application of academic standards, and effectively prepares students for college and career success. Instruction may be delivered through school-based laboratory training or through work-based delivery arrangements such as cooperative education, mentoring, and job shadowing. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations. During this course students will test to obtain the Servsafe Management Certification.



PROGRAMS OF STUDY

Education and Training

TEACHING AND TRAINING



Student Organization: TAFE

Level 1 Course:

Principles of Education and Training

Level 2 Course:

Human Growth and Development

Level 3 Course:

Instructional Practices in Education and Training

Level 4 Course:

Practicum in Education and Training

Industry Certifications:

Educational Aide I

Possible Careers:

High School Teacher	Educational Aide	Daycare Provider
Elementary Teacher	Librarian	School Counselor
Middle School Teacher	School Administrator	Coach
CTE Teacher	Instructional Designer	Tutor
Special Education Teacher	Social Worker	Health Educator

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EDUCATION & TRAINING

8C701 Principles of Education & Training

Grade: 9—10

Credit: 1 State

Class Rank: 6

This course is designed to introduce learners to the various careers available within the education and training career cluster. Students 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 area of interest.

8C710 Human Growth and Development

Grade: 10—12

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of Principles of Education & Training

This technical laboratory course addresses knowledge and skills related to human growth and development. Students use these skills to promote well-being and healthy development. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

8C722 Instructional Practices in Education & Training (Ready, Set, Teach I)

Grade: 11—12

Credit: 2 State

Class Rank: 7

Prerequisite: Successful completion of Human Growth and Development

This is a field-based internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators or trainers in direct instructional roles with elementary, middle school, and high school aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel.

8C732D Practicum in Education & Training Dual Credit (Ready, Set, Teach II)

Grade: 11—12

Credit: 2 State

Class Rank: 8

*Prerequisite: **Limited space available.** Successful completion of Instructional Practices in Education & Training. Admission to NTCC and Infant and Pediatric CPR certification. Students will have the opportunity to earn college credit in EDUC 1301 / EDUC 2301 through NTCC.*

This field-based internship course will provide 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, middle childhood, and adolescents 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.



PROGRAMS OF STUDY

Health Science

DIAGNOSTIC AND THERAPEUTIC SERVICES-NURSING

Level 1 Course:
Principles of Health Science



Level 2 Course:
Medical Terminology

Level 3 Course:
Anatomy and Physiology
Health Science Theory + Clinical

Student Organization: HOSA

Level 4 Course:
Practicum in Health Science

Industry Certifications:

-Certified EKG Technician-
-Certified Clinical Medical Assistant-
-Phlebotomy-
-Patient Care Tech-

Possible Careers:

Medical Assistants	Physician Assistant	Physical Therapist
Surgical Technologists	Radiologist	Physical Therapist Assistant
Dental Hygienists	Doctor	Occupational Therapist
Dental Assistants	Patient Care Technician	Radiology Technician
Lab Technician	Phlebotomists	Speech Therapist

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DIAGNOSTIC & THERAPEUTIC SERVICES—Nursing

8C801 Principles of Health Science

Grade: 9—10

Credit: 1 State

Class Rank: 6

This course provides an overview of therapeutic, diagnostic, health information, support services, and biotechnology research and development systems of the health care industry. Please note that medical terminology is a large portion of this course. To pursue a career in the health science industry, students should 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 prepares students for the Health Science career cluster.

8C811 Medical Terminology

Grade: 10—11

Credit: 1 State

Class Rank: 6

This course is designed to introduce students to the structure of Greek and Latin derivatives, including prefixes, suffixes, word roots, combining forms, and singular and plural forms, plus medical abbreviations and acronyms. This is a fast-paced course requiring substantial memorization of medical terms. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

8C825 Health Science Theory + Clinical

Grade: 10—12

Credit: 2 State

Class Rank: 7

*Prerequisite: Successful completion of Biology I and Medical Terminology Prerequisite: **Limited space available. Course fee: purchase of 1—2 sets of scrubs is required (estimated \$40/set), and students must have a watch with a second hand.***

The HST course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will have hands-on experiences for continued knowledge and skill development. The course may be taught by different methodologies such as assimilated labs and career preparation learning. Students will continue learning medical terminology. The skills attained include hand washing, vital signs, and American Heart Association CPR certification. The HSC course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Success in this course is required to advance to a Health Science Practicum.

8C853 Practicum in Health Science I—Patient Care Technician

Grade: 12

Credit: 2 State

Class Rank: 7

*Prerequisite: **Limited space available.** Successful completion of Health Science Theory I and have American Heart Association CPR certification. **Course fee: purchase of 2 sets of scrubs is required (estimated \$40/set), and students must have a watch with a second hand.***

This course is designed to give students practical application of previously studied knowledge and skills. This course is a continuation of clinical experiences from Practicum I. Clinical experiences occur in hospital and clinical settings. Students use classroom time to prepare for the Certified Patient Care Technician (CPCT) exam. Clinicals will involve longer-term internship clinical assignments. **Practicum in Health Science courses require students to behave responsibly and professionally in a variety of circumstances.**

8C852 Practicum in Health Science I Dual Credit—Medical Assisting

Grade: 12

Credit: 2 State

Class Rank: 8

*Prerequisite: **Limited space available.** Successful completion of Health Science Theory I and have American Heart Association CPR certification. Admission to NTCC. **Course fee: purchase of 2 sets of scrubs is required (estimated \$40/set), and students must have a watch with a second hand.** Students will have the opportunity to earn college credit in HPRS 1101/MDCA 1313 & MDCA 1205 through NTCC.*

This course is designed to give students practical application of previously studied knowledge and skills. This course is a continuation of clinical experiences from Practicum I. Clinical experiences occur in hospital and clinical settings and other locations appropriate to the nature and level of experience. Clinicals will involve longer-term internship clinical assignments. **Practicum in Health Science courses require students to behave responsibly and professionally in a variety of circumstances.**

8C841 Anatomy & Physiology

Grade: 11—12

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of Biology I and Chemistry I. Recommended for students in Health Science Career Cluster.

In Anatomy and Physiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis. **This course counts as a science credit.**

8C840 Anatomy & Physiology Honors

Grade: 11—12

Credit: 1 State

Class Rank: 7

Prerequisite: Successful completion of Biology I, Chemistry I, Principles of Health Science. Recommended for students in Health Science Career Cluster.

This course covers the same concepts as Anatomy and Physiology. The content in this section is studied more in-depth with each system and how it interrelates with other systems in the body. This section may include additional research on disorders and diseases with how they relate to each system in Anatomy and Physiology. **This course counts as a science credit.**



PROGRAMS OF STUDY

Health Science

Exercise Science, Wellness, and Restoration



Level 1 Course:
Any Principles

Level 2 Course:
Kinesiology I

Level 3 Course:
Kinesiology II
Anatomy and Physiology

Level 4 Course:
Career Preparation for Program of Study-AT
Practicum in Entrepreneurship -AT

Student Organization:

Industry Certifications:
Certified Personal Trainer

Possible Careers:

Athletic Training

Physical Therapist

Occupational Therapist

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EXERCISE SCIENCE, WELLNESS & RESTORATION

8C870 Kinesiology I

Grade: 10—11

Credit: 1 State

Class Rank: 6

This course is designed to introduce students to the basic concepts of kinesiology. Students will gain an understanding of body mechanics, physiological functions of muscles and movements, the history of kinesiology, and the psychological impact of sports and athletic performance. Students will also explore careers within the kinesiology field and be able to explain the societal demand for kinesiology-related jobs. Students will develop a foundation in Kinesiology I that will prepare them for upper-level courses that will dive deeper into the anatomical and physiological functions of the body and provide opportunities for an industry-certified exam such as a certified personal trainer.

Students who completed Principles of Exercise Science in Junior High, can take Kinesiology I their 9th grade year. All others will need to complete any other Principles class

8C176 Entrepreneurship I

Grade: 9

Credit: 1 State

Class Rank: 6

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.

This course has replaced Freshman Skills and is required of all Freshmen at MPHS to take, but is not a State mandated course

8C875 Kinesiology II

Grade: 10—12

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of Kinesiology I

This course is designed to provide students with an advanced level of knowledge, skills, and understanding of body composition and the effect on health, nutritional needs of physically active individuals, qualitative biomechanics, application of therapeutic modalities, appropriate rehabilitation services, and aerobic training intensity programs. The course is designed to allow students to advance their understanding of professional standards, employability skills, and ethical and legal standards. Throughout this course, students explore the healthcare/exercise business model and gain an understanding of therapeutic sports psychology. Students develop proper aerobic fitness certification exam such as a Certified Personal Trainer.

8C178AT Practicum of Entrepreneurship I—Athletic Trainer III (One Period)

Grade: 11—12

Credit: 2 State

Class Rank: 7

Prerequisite: Successful completion of Kinesiology II. Evening, weekend and holiday practices and games are mandatory!

This course provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career Preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepare students for college and career success.

8C179AT Career Preparation for Program of Study—Athletic Trainer IV (Two Periods)

Grade: 11—12

Credit: 2 State

Class Rank: 7

Prerequisite: Successful completion of Kinesiology II and/or Practicum of Entrepreneurship I—Athletic Trainer III. Evening, weekend and holiday practices and games are mandatory!

This course provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career Preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepare students for college and career success.

8C841 Anatomy & Physiology

Grade: 11—12

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of Biology I and Chemistry I. Recommended for students in Health Science Career Cluster.

In Anatomy and Physiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis. **This course counts as a science credit.**

8C840 Anatomy & Physiology Honors

Grade: 11—12

Credit: 1 State

Class Rank: 7

Prerequisite: Successful completion of Biology I, Chemistry I, Principles of Health Science. Recommended for students in Health Science Career Cluster.

This course covers the same concepts as Anatomy and Physiology. The content in this section is studied more in-depth with each system and how it interrelates with other systems in the body. This section may include additional research on disorders and diseases with how they relate to each system in Anatomy and Physiology. **This course counts as a science credit.**

LEGAL STUDIES

8C300 Principles of Law, Public Safety, Corrections, & Security

Grade: 9—10

Credit: 1 State

Class Rank: 6

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

8C315 Court Systems and Practices

Grade: 10—12

Credit: 1 State

Class Rank: 6

Prerequisite: None

This course is an overview of the Federal and State court systems. The course identifies the roles of judicial officers and the trial processes from pretrial to sentencing and examines the types and rules of evidence. Emphasis is placed on Constitutional Laws for criminal procedures such as search and seizure, stop and frisk, and interrogation.

8C342 Advanced Legal Skills & Professions—Dual Credit

Grade: 11—12

Credit: 1 State

Class Rank: 8

Prerequisite: Successful completion of Court Systems & Practices. Admission to NTCC. Students will have the opportunity to earn college credit in CRIJ 1301 & 1310 in Fall / CRIJ 1307 in Spring

This course will provide students with a foundation to understand the basic mechanics of the U.S. Legal System. Building on prior instruction in Constitutional issues and the basics of American Court Systems. This course provides insight into the practical application of the law, as well as Civil and Criminal procedure, giving students a hands-on opportunity to experience a variety of legal professions.

8C346 Practicum in Law, Public Safety, Corrections, and Security

Grade: 11—12

Credit: 2 State

Class Rank: 7

Prerequisite: Successful completion of any Law Enforcement and/or Legal Studies Course

This course is designed to give students supervised practical application of previously studied knowledge and skills in law, public safety, corrections, and security. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

8C335 Forensic Science

Grade: 11—12

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of Biology I and Chemistry I

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

8C335Q Forensic Science Honors

Grade: 11—12

Credit: 1 State

Class Rank: 7

Prerequisite: Successful completion of Biology I and Chemistry I or Physics; and Principles of Law, Public Safety, Corrections & Security.

This course covers the same concepts as Forensic Science. The content is studied in greater depth, includes advanced math calculations in topics as blood spatter and ballistics and may include additional topics. This course is highly recommended for students interested in pursuing a career in law, public safety, corrections, and security occupations. **This course counts as a science credit.**



PROGRAMS OF STUDY

Engineering

ENGINEERING FOUNDATIONS



Level 1 Course:
Principles of Applied Engineering

Level 2 Course:
Engineering Design and Presentation I
Aerospace Design 1

Level 3 Course:
Engineering Design and Presentation II

Level 4 Course:
Practicum in Engineering
Scientific Research and Design

<p><u>Industry Certifications:</u> Solidworks-Academic Solidworks-Additive Manufacturing Assoc.</p>	<p><u>Possible Careers:</u></p> <table border="0"> <tr> <td>Aerospace Engineers</td> <td>Civil Engineers</td> <td>Medical Scientists</td> </tr> <tr> <td>Industrial Engineers</td> <td>Environmental Engineers</td> <td></td> </tr> <tr> <td>Mechanical Engineers</td> <td>Health/Safety Engineers</td> <td></td> </tr> <tr> <td>Chemical Engineers</td> <td>Application Software Developers</td> <td></td> </tr> <tr> <td>Electrical Engineers</td> <td>Computer Programmers</td> <td></td> </tr> </table>	Aerospace Engineers	Civil Engineers	Medical Scientists	Industrial Engineers	Environmental Engineers		Mechanical Engineers	Health/Safety Engineers		Chemical Engineers	Application Software Developers		Electrical Engineers	Computer Programmers	
Aerospace Engineers	Civil Engineers	Medical Scientists														
Industrial Engineers	Environmental Engineers															
Mechanical Engineers	Health/Safety Engineers															
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(STEM) ENGINEERING FOUNDATIONS

8C402 Principles of Applied Engineering

Grade: 9

Credit: 1 State

Class Rank: 6

This course will provide an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will use a variety of computer hardware and software applications to complete assignments and projects. Further, students will work on a design team to develop a product or system.

8C410 Engineering Design & Presentation I

Grade: 10

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of Principles of Applied Engineering

This is a project-based course. Students will improve problem solving, communication and design skills while solving various community based projects. Students will build prototypes or use simulation software to test their designs. Additionally, students will explore career opportunities, employer expectations, and educational needs in the STEM industry.

8C429 Aerospace Design I

Grade: 10—11

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of Algebra I

Students enrolled in Aerospace Design I will demonstrate knowledge and skills associated with the design evolution and emerging trends of aircraft and aerospace systems. Fundamental concepts such as forces of flight, structures, aerodynamics, propulsion, stability and control, and orbital mechanics are introduced as related to design decisions for atmospheric and space flight. These concepts are related to mission requirements and solution approaches.

8C421 Engineering Design & Presentation II

Grade: 11—12

Credit: 2 State

Class Rank: 7

Prerequisite: Successful completion of Engineering Design & Presentation I or completion/concurrent enrollment in Pre-Calculus or Physics.

This is a project-based course. Students will improve problem solving, research and design skills while solving various community based projects. Students will also learn how to document their work and communicate their solutions to peers and to members of the professional community. Students will build prototypes or use simulation software to test their designs. Additionally, students explore career opportunities, employer expectations, and educational needs in the STEM industry.

(STEM) ENGINEERING FOUNDATIONS

8C4231 Practicum in Engineering

Grade: 12

Credit: 2 State

Class Rank: 0

Prerequisite: Successful completion of Algebra I & Geometry and Engineering Design & Presentation II.

This capstone course provides students the opportunity to apply skills and knowledge acquired in previous engineering/STEM courses in completion of various real projects for the community throughout the year. Students will refine their skills in problem solving, research, communication, data analysis, teamwork, and project management. Students will keep a digital portfolio of their work throughout the year. **Practicum in Engineering is designed to give students supervised practical application of knowledge and skills. To prepare for careers in engineering, students must attain academic knowledge and skills, acquire technical knowledge and skills related to the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. **

8C428 Scientific Research and Design

Grade: 11—12

Credit: 1 State

Class Rank: 6

Prerequisite: Successful completion of Biology I and Chemistry I

This course is a project-based learning course. In this course, students will learn about the nature of science, methods of scientific inquiry, and the application of scientific information in society. Students will complete independent and collaborative research projects wherein they will design and execute experiments, and present their findings using a variety of media. **This course counts as a science credit.**

8C428Q Scientific Research and Design Honors

Grade: 11—12

Credit: 1 State

Class Rank: 7

Prerequisite: Successful completion of Biology I and Chemistry I

The goal of this course is for students to experience scientific research as scientists do. They will be challenged because there is no right answer. The teacher will guide and brainstorm with students as a facilitator, but students will be expected to learn how to guide themselves. Students will learn to read and analyze scientific articles, design an experiment, ask good experimental questions, operationalize variables, gather data, analyze results and draw conclusions. Also, they will be expected to deliver presentations on their research and eventually either look for external mentors with whom they can develop their own research ideas into original scientific projects or design and carry out their own in-house, independent research. **This course counts as a science credit.**



PROGRAMS OF STUDY

Transportation, Distribution, and Logistics

AUTOMOTIVE TECHNOLOGY AND REPAIR



Level 1 Course:
Any Principles

Level 2 Course:
Entrepreneurship I

Level 3 Course:
Automotive Technology I

Level 4 Course:
Automotive Technology II

<p><u>Industry Certifications:</u> ASE Entry Level</p>	<p><u>Possible Careers:</u></p> <table border="0"> <tr> <td>Automotive Service Tech</td> <td>Diesel Engine Mechanic</td> </tr> <tr> <td>Automotive Mechanic</td> <td>Service Manager</td> </tr> <tr> <td>Logistics Management</td> <td>Service Writer</td> </tr> <tr> <td>Inventory Management</td> <td>Parts Technician</td> </tr> <tr> <td>Motorcycle Mechanic</td> <td>Auto Shop Owner</td> </tr> </table>	Automotive Service Tech	Diesel Engine Mechanic	Automotive Mechanic	Service Manager	Logistics Management	Service Writer	Inventory Management	Parts Technician	Motorcycle Mechanic	Auto Shop Owner
Automotive Service Tech	Diesel Engine Mechanic										
Automotive Mechanic	Service Manager										
Logistics Management	Service Writer										
Inventory Management	Parts Technician										
Motorcycle Mechanic	Auto Shop Owner										

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TRANSPORTATION, DISTRIBUTION, & LOGISTICS

****Automotive Technology courses are college courses taught on the NTCC Campus. School bus transportation will be provided and students MUST ride the bus to and from the NTCC Campus.****

8C176 Entrepreneurship I

Grade: 9

Credit: 1 State

Class Rank: 6

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.

This course has replaced Freshman Skills and is required of all Freshmen at MPHS to take, but is not a State mandated course

8C8427B Automotive Technology I—Dual Credit

Grade: 11—12

Credit: 3 (2 State, 1 Local)

Class Rank: 7

Prerequisite: Students will have the opportunity to earn college credit in AUMT 1391/AUMT 2301/AUMT 2310/ AUMT 1201/AUMT 1316 through NTCC.

This project-based course include knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. In this course, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to reach the theory of operation of automotive vehicle systems and associated repair practices.

8C8439 Automotive Technology II—Dual Credit

Grade: 12

Credit: 3 State

Class Rank: 7

Prerequisite: Successful completion of Automotive Technology I. Students will have the opportunity to earn college credit in AUMT1345/AUMT 1257/AUMT 1307/AUMT 2305 through NTCC.

This project-based course will build on the knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. In this course, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to reach the theory of operation of automotive vehicle systems and associated repair practices.

WORK-BASED LEARNING

****Work-based Learning Programs require one hour of classroom instruction coupled with 15 hours of on the job training at an approved work site. Work-based learning programs are described below****

8C8954 Career Preparations I

Grade: 11—12

Credit: 3 State

Class Rank: 6

Prerequisite: Application and Instructor approval required. Students must be at least 16 years of age by Sept 1. Students must have an approved job before the start of the school year to enter any WBL program. Students must have transportation to and from the work site.

This course is an instructional arrangement that develops the essential knowledge and skills through a combination of school-based technical instruction and coordinated work-based training in occupationally specific training areas. Approved training areas include Communications and Media Systems, Construction-Maintenance Systems, Electrical/Electronic Systems, Industrial & Manufacturing Systems, Personal and Protective Service Systems, and Transportation Systems. Students must work a minimum of 15 hours per week.

Application available in the Counselors' Office.

8C8955 Career Preparations II

Grade: 12

Credit: 3 State

Class Rank: 6

Prerequisite: Application and Instructor approval required. Students must have an approved job before the start of the school year to enter any WBL program. Students must have transportation to and from the work site. Successful completion of Career Preparations I

This course is an instructional arrangement that develops the essential knowledge and skills through a combination of school-based technical instruction and coordinated work-based training in occupationally specific training areas. Approved training areas include Communications and Media Systems, Construction-Maintenance Systems, Electrical/Electronic Systems, Industrial & Manufacturing Systems, Personal and Protective Service Systems, and Transportation Systems. Students must work a minimum of 15 hours per week.

Application available in the Counselors' Office.

*** OJT courses receive credit in Career Prep classes. The following OJT courses will be attached to the coordinating Prep class by the Counselor upon request by Instructor***

Grade: 11—12

Credit: 0

Class Rank: 0

8C990 1 Period (off campus)

8C991 2 Periods (off campus)

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OTHER COURSES

8C8920 Career & Academic Planning (CAP)

Grade: 12

Credit: 1 State

Class Rank: 7

Seniors, it is time to begin planning for your future. Whether you need help choosing a college or figuring out your career goals, this class will provide you with the knowledge to make those choices with confidence. CAP will focus on ACT/SAT prep, college admissions, scholarships, financial aid, as well as career research. You will also develop financial planning skills and life skills necessary for everyday living.

8C325 Foundations of Court Reporting

Grade: 10—12

Credit: 1 State

Class Rank: 6

This course will enable the student to identify the parts of a computer-compatible steno machine and demonstrate proficiency in creating reports using the specialized chorded steno machine keyboard functions and computer software. The students will evaluate the workings of real-time reporting information systems and communications technology. The student will acquire the ability to write conflict-free, real-time translation theory on a computer-compatible steno machine, using proper punctuation and grammar. The student will be able to create and organize a personal dictionary for brief form writing the most common words and phrases and a phonetic based system for writing all words. The student will build reading and writing skills on literary material, jury charge material, and question/answer testimony to navigate the inner workings of the court system. These materials include, but are not limited to courtroom filings, subpoenas, affidavits, and all other documents needing transcription. Additionally, students will demonstrate proper dictation practices required for cognitive theory translation and speed-accuracy development.

8C8956 General Employability Skills

Grade: 11—12

Credit: 1 State

Class Rank: 4

This course provides students with the knowledge of the prerequisite skills for general employment as well as the means of obtaining those skills. Employability skills include fundamentals of maintenance of personal appearance and grooming. The course also includes the knowledge, skills, and attitudes that allow employees to get along with their co-workers, make important work-related decisions, and become strong members of the work team. Discovering job possibilities that link skills, abilities, interest, values, needs, and work environment preferences is a part of the process of obtaining employability skills and abilities and is experiential learning that takes place over time.

8C8957 Student to Industry Connection

Grade: 12

Credit: 1 State

Class Rank: 4

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

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Debate

Controversial issues arise in aspects of personal, social, public, and professional life in modern society. Debate and argumentation are widely used to make decisions and reduce conflict. Debate I and II are designed to give students the skills and expertise to develop sound critical thinking and sharpen communication skills. The student will learn how to analyze issues, know the difference between propositions of value and policy; develop logical thinking skills, utilize different research sources, construct arguments, and learn effective oral communication skills. This class is intended to prepare students to engage in extracurricular debate tournaments in the district, regional, and state levels. Emphasis will be in preparing for UIL Debate Tournaments in contest. Participation in UIL Debate or Academic Tournaments is required.

Grade: 9—11

Credit: 1 State

Class Rank: 7

E121 Debate I

E122 Debate II

E123 Debate III

Grade: 12

Credit: 1 Local

Class Rank: 0

E1244 Debate IV

UIL

This class is intended to prepare students to engage in extracurricular UIL Academic Events/Tournaments in the district, regional, and state levels. Emphasis will be in preparing for UIL Debate Tournaments in contest. Participation in UIL Academic Tournaments is required. These courses require after school activities and some Saturdays.

Grade: 9—11

Credit: 1 Local

Class Rank: 7

1111 UIL English

5555

UIL Accounting

3333 UIL Science

6666

UIL Computer Science

4444 UIL Social Studies

E127

UIL Mathematics

Grade: 12

Credit: 1 Local

Class Rank: 0

Prerequisite: Seniors participating for the 1st time will require approval from the UIL Coordinator

11111 UIL English

55555

UIL Accounting

33333 UIL Science

66666

UIL Computer Science

44444 UIL Social Studies

77777

UIL Mathematics

E994B ACT/SAT Test Prep Block E992/E994

Grade: 10—11

Credit: 1 Local

Class Rank: 0

Students in this course will be enrolled in either the ACT or SAT Magoosh Online Test Prep for the Fall Semester and will have study hall in the Spring Semester. This course is for all college bound students interested in preparing for college entrance exams. Registering and paying for the actual ACT/SAT tests is not part of this course study.

E200 Study Hall

Grade: 10—12

Credit: 1 Local

Class Rank: 0

Students with room in their schedules may elect 1 period of study hall for local credit. Students will be expected to do class work, work on projects, and/or study for tests during this period. This class is dependent on teacher availability.

E980 Teacher Aide

Grade: 12

Credit: 1 Local

Class Rank: 0

12th Grade students ONLY. Must have passed ALL courses during their Junior year.

Student assistants will work with assigned Teacher. **Student assistants will be expected to behave responsibly and professionally in a variety of circumstances. Student assistants will be held to a high standard of behavior. Conduct and attendance history are considered for acceptance into this course.**

E990 Office Aide

Grade: 12

Credit: 1 Local

Class Rank: 0

12th Grade students ONLY. Must have passed ALL courses during their Junior year.

Student assistants will work in various offices at the high school. **Student assistants will be expected to behave responsibly and professionally in a variety of circumstances. Student assistants will be held to a high standard of behavior. Conduct and attendance history are considered for acceptance into this course.**

4140 Personal Financial Literacy

Grade: 10—12

Credit: .5 State

Class Rank: 6

This course will teach students to 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 postsecondary education and training. Students will also understand the power of both compound growth on investments and compound interest on debt and how these concepts affect the ability to build wealth over time. Includes instruction in methods of paying for college and other post secondary education and training along with completing the application for federal student aid provided by the U.S. Department of Education. Students understand that a Constitutional Republic is a representative form of government whose representatives derive their authority from the consent of the governed, serve for an established tenure, and are sworn to uphold the Constitution.

4150 Personal Financial Literacy and Economics

Grade: 11—12

Credit: .5 State

Class Rank: 6

This is an integrative course that applies the same economic way of thinking developed to making choices about how to allocate scarce resources in an economy to how to make them at the personal level.

3121 Integrated Physics and Chemistry

Grade: 9—10

Credit: 1 State

Class Rank: 6

This is a general course, which includes both chemistry and physics topics. In this course, students will be able to examine the importance of chemistry and physics in their daily lives. A general knowledge of mathematics and the ability to follow instructions will provide the necessary background for entry into this lab-based course.

8C140 Professional Communications/Speech

Grade: 9—12

Credit: .5 State

Class Rank: 6

This course is designed to develop socially effective speaking and communication skills in front of an audience, while strengthening self-confidence and logical thinking abilities. Through specific speech presentations, the student will be able to present competent information in both informative and persuasive situations. This course will instruct the student on the proper procedures for structure and delivery of various types of speeches while dealing with specific audiences. Focus will be given to the art of the informative and persuasive debate and the procedures of practicing delivery of each type of speech learned.

8C220 Computer Science I

Grade: 9—12

Credit: 1 State

Class Rank: 6

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.

8CE210 CTE SH Business Management

Grade: 10—12

Credit: 1 State

Class Rank: 0

This course is designed to familiarize students with the concepts related to business management as well as the functions of management, including planning, organizing, staffing, leading, and controlling. Students will also demonstrate interpersonal and project-management skills.

**Students taking this course will not be able to sign up for E200—Study Hall.

