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Scholars Prep Guide

2019-20

Class of 2020

Class of 2021

Class of 2022

Class of 2023

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GENERAL INFORMATION

Maryville Junior High School **MJHS Mission and Vision**

Phone: 865-983-2070
Office Fax: 865-977-4089
Counseling Office Fax: 1-865-205-9556
Website: <https://mjhs.maryville-schools.org/>

Maryville High School **MHS Mission and Vision**

Phone: 865-982-1132
Office Fax: 865-983-1440
Counseling Office Fax: 1-865-982-2005
Website: <https://mhs.maryville-schools.org/>

Maryville City Schools **District Strategic Plan**

Phone: 865-981-7121
Office Fax: 865-977-5055
Website: <https://www.maryville-schools.org/>

MARYVILLE JUNIOR HIGH SCHOOL COURSE PLACEMENT CRITERIA

8th Grade Placement Criteria

Language Arts		
Course	ACT English Projections	
	State %tile	ACT Score
82 Honors	80-99	24-36
83 CP	50-79	19-23
84 cp	1-49	1-18

Math		
Course	ACT Math Projections	
	State %tile	ACT Score
81 Algebra 1	80-99	23-36
82 CP	40-79	17-22
83 cp	1-39	1-16

Science		
Course	ACT Science Projections	
	State %tile	ACT Score
81 Honors	79-99	23-36
82 CP	40-78	18-23
83 cp	1-39	1-17

Social Studies		
Course	ACT Reading Projections	
	State %tile	ACT Score
81 Honors	79-99	24-36
82 CP	1-78	17-23

9th Grade Placement Criteria

Language Arts		
Course	ACT English Projections	
	State %tile	ACT Score
92 Honors	80-99	24-36
93 CP	50-79	19-23
94 cp	1-49	1-18
Math		
Course	ACT Math Projections	
	State %tile	ACT Score
Geometry Honors	80-99	23-36
Geometry CP		
92 Algebra I CP	40-79	17-22
93 Algebra I cp	1-39	1-16
Science		
Course	ACT Science Projections	
	State %tile	ACT Score
91 Biology Honors	79-99	23-36
92 Biology CP	40-78	18-23
93 Env. Science cp	1-39	1-17
Social Studies		
Course	ACT Reading Projections	
	State %tile	ACT Score
AP Human Geography	85-99	26-36
92 CP	40-84	17-25
93 cp	1-39	1-16

**MARYVILLE CITY SCHOOLS
MINIMUM GRADUATION REQUIREMENTS**

REQUIRED COURSES	GRADE TAKEN	27 Required Credits⁸
English 1, 2, 3, 4	9, 10, 11, 12	4 Credits
Math ¹	9, 10, 11, 12	4 Credits
Science ²	9, 10, 11, 12	3 Credits (+1)
Lifetime Wellness	9	1 Credit
World Geography/History	9	1 Credit
World Language ³	9-12	2 Credits
Fine Arts ³	9-12	1 Credit
Physical Education ⁴	9-12	½ Credit
Elective Focus ⁵	9-12	3 Credits
U.S. History	11	1 Credit
U.S. Government ⁶	12	½ Credit
Economics	12	½ Credit
Personal Finance ⁷	12	½ Credit
Electives	9, 10, 11, 12	4 Credits

¹ All students are required to complete a mathematics course sequence including Algebra 1, Algebra 2, Geometry, and one additional mathematics course. All students are required to enroll in a math course each year.

² All 9-12 students are required to enroll in a Science course each year, which raises the number of credits taken from three to four. The science program must include Biology, Chemistry or Physics, and two additional lab sciences.

³ World Language and Fine Arts may be waived for students not planning to attend a four-year college or university and will be replaced with three courses designed to enhance and expand the elective focus. Parents must sign a waiver form.

⁴ The additional one-half credit in P.E. may be met by completing a Physical Education course or by participating in a sport or activity (65 hours) sponsored by a MJHS/MHS faculty member that has been reviewed by the P.E. department and approved by the administration.

⁵ The Elective Focus must be a program of study focusing on a particular area of concentration (Fine Arts; Career and Technical Education courses in the same program of study; Exercise, Safety and Sport Science; Humanities; Math and Science; Dual Enrollment; and AP Courses) made up of three electives beyond the core requirements with the exception of AP and Dual Enrollment.

⁶ U.S. Government includes a United States civics test that must be passed for graduation.

⁷ Personal Finance is an online class that will be monitoring through the Economics or Marketing I course.

⁸ Students taking part in early graduation based on the Move on When Ready Act must meet all state requirements and complete the on-line [form here](#).

To earn a Maryville High School Diploma, students must earn four less than the number of credits a student is able to earn in grades 9-12 carrying a full load each term and maintain a satisfactory record of discipline and attendance. In addition, students must take the ACT during the 11th grade year and all students must take and pass a United States civics test during their government class. A special education diploma may be awarded at the end of their fourth year of high school to students with disabilities who have (1) not met the requirements for a high school diploma, (2) have satisfactorily completed an IEP, and (3) have satisfactory records of attendance and conduct. Students who obtain the special education diploma may continue to work towards the high school diploma through the end of the school year in which they turn twenty-two (22) years old.

Students who score at or above all of the subject area readiness benchmarks on the ACT or equivalent SAT will graduate

with honors. The ACT benchmarks are: English 18; Math 22; Reading 22; Science Reasoning 23.

Students will be recognized as graduating with “distinction” by attaining a B (3.0) average and completing at least one of the following:

- Earn a nationally recognized industry certification
- Participate in at least one of the Governor’s Schools
- Participate in at least one of the state’s All State musical organizations
- Be selected as a National Merit Finalist or Semi-Finalist
- Attain a score of 31 or higher composite score on the ACT
- Attain a score of 3 or higher on at least two AP exams
- Earn 12 or more semester hours of transcribed postsecondary credit

Students must complete the necessary paperwork in the MHS School Counseling Office to receive distinction recognition. Students graduating with honors and/or distinction are recognized at commencement by having a symbol appear next to each student’s name on the commencement program with a statement describing the accomplishments.

TN READY GRADUATES

“*Ready Graduate*” measures the percentage of students who earn a diploma from a Tennessee high school and who have met measures of success that increase their probability of seamlessly enrolling in postsecondary education and securing high-quality employment. Students can attain “*Ready Graduate*” status by meeting one of four criteria:

- 1) Meeting the subtest benchmarks on the ACT and achieving an ACT composite score of 21.
- 2) Earning a combination of 4 Early Post-Secondary credits.
- 3) Earning a combination of 2 Early Post-Secondary credits along with an industry certification.
- 4) Earning a combination of 2 Early Post-Secondary credits along with an ASVAB score of 31 or higher.

Click [here](#) for details regarding *Ready Graduate* indicators from the TN Dept. of Education.

ELECTIVE FOCUS AREAS

The following groupings list current courses that have been approved by the Maryville City Board of Education as appropriate choices to fulfill the intent and purpose of the elective focus. These focus areas are **Fine Arts; Career and Technical Education Programs; Exercise, Safety and Sports Science; Humanities; Math and Science; Advanced Placement and Dual Enrollment.**

Maryville High School currently offers two courses in the Senior Program (Success Skills through Service Learning and Senior Transition) that provide opportunities for community interaction, creativity, self-discovery and future planning. In addition, these courses may require students to research and present a project, to job shadow, and/or to develop and execute a community-focused project. These courses satisfy the recommended capstone experience: Success Skills through Service Learning and Senior Transition courses can be included in the focus areas of Fine Arts, Humanities, and Science and Math.

Fine Arts

(In addition to one credit required for graduation)

Advanced Mixed Chorus
AP Music Theory
Art 1 (Visual Art 1-MJHS)
AP Art History
AP Studio Art/Drawing
AP Studio Art/3D
AP Studio Art/2D
AP Seminar, Senior Transition, College Success 1500 or
Success Skills through Service Learning

Band (Instrumental Music-Band-MJHS)
Clay/Ceramics
Theatre 1 (Theatre Arts 1 Intermediate-MJHS); Theatre
2-Intermediate; Theatre 2 Play Production
Drawing
Intermediate Female Chorus (Vocal Music Female-
MJHS)
Intermediate Male Chorus (Vocal Music Male-MJHS)
Music Theory

Orchestra (Instrumental Music-Orchestra-MJHS)
Painting

Studio Art/Digital Photography
World Craft

Career and Technical Education

Students selecting a CTE elective focus must complete three credits in the same CTE state-approved program of study. Related dual enrollment courses can also fulfill a CTE elective focus requirement. Work Based Learning Career Practicum learning experiences are activities at the high school level that involve actual work experience or connect classroom learning to work. Work Based Learning Career Practicum is open to 11th and 12th grade students who have earned a minimum of 2 credits in a CTE program of study. Refer to course offerings: Career & Technical, beginning on page 50 for details.

Humanities

Courses in the Humanities cluster: literature; linguistics; classical and modern languages; history/social studies; philosophy; and history and appreciation of the visual and performing arts (in addition to courses required for graduation).

Ancient World History
European History AP
AP Music Theory
Foreign Language Teaching Ambassadors
French 1, 2 (MJHS & MHS), 3H, 4H, AP
Human Geography AP (MJHS & MHS)
Contemporary Issues
Journalism—Yearbook (MJHS & MHS)

Latin 1, 2 (MJHS & MHS), 3H, 4H, AP
Psychology AP
Spanish 1, 2 (MJHS & MHS), 3H, 4H, AP
Dual Enrollment Courses related to focus
AP Seminar, Senior Transition, College Success 1500 or
Independent Project, AP Research
Speech and Communication
Peer Tutoring (MJHS & MHS)

Science and Math

(In addition to courses required for graduation)

Biology AP
Chemistry AP
Calculus AB AP
Calculus BC AP
Statistics AP
Chemistry AP
Crime Scene Investigations
Environmental Science AP
Human Anatomy and Physiology

Natural Science/Biology 2
Physics 1
Physics 1 AP
Physics 2 AP
Dual Enrollment Courses related to focus area
AP Seminar, Senior Transition, College Success 1500 or
Success Skills through Service Learning

Advanced Placement

AP Art History
AP Biology
AP English 3
AP English 4
AP Calculus AB
AP Calculus BC
AP Computer Science
AP Chemistry
AP Economics

AP Environmental Science
AP French
AP Government
AP Human Geography (MJHS & MHS)
AP European History
AP Latin
AP Music Theory
AP Physics 1
AP Physics 2

AP Psychology
AP Research
AP Seminar
AP Spanish

AP Statistics
AP Studio Art Drawing, Studio Art 3D, Studio Art 2D
AP United States History

Dual Enrollment

3 approved dual enrollment courses

REQUIRED ASSESSMENTS

MARYVILLE JUNIOR HIGH SCHOOL

The Tennessee Comprehensive Assessment Program (TCAP) includes eighth grade TN Ready assessments as well as ninth grade End-of-Course (EOC) assessments. Results from these exams, which are taken in the spring semester, will compose 15% of spring semester grades in the following courses: 8th grade Math, 8th grade Reading/Language Arts, Science, Social Studies, English 1, Algebra 1, Geometry, and Biology 1.

If the TCAP scores are not available from the state at least five instructional days before the end of the term, then the Director of Schools may choose not to include the scores in the students' final grades.

If a student is absent and misses a TN Ready assessment and the absence is unexcused, a zero (0) will be averaged as 15% of the second semester average. If the absence is excused, (e.g. medical, death in family, court ordered juvenile court appearance, and the opportunity was not available for the student to make the test up during the mandated testing window, the teacher will issue a comprehensive exam. The grade earned from the comprehensive exams will account for 15% of the second semester average. The administration will not issue excused absences for prior approval requests during state mandated testing. Vacations and going out-of-town are not considered excused absences during state mandated standardized testing.

MARYVILLE HIGH SCHOOL

End-Of-Course (EOC) exams are given in English 2, Algebra 2, Geometry, U.S. History, and Biology to test the mastery of expectations leading to college and work readiness. Eleventh grade students are required to take the ACT. All students are required to take and pass the United States Civics test. A comprehensive final is 25% of a student's final grade. State End-Of-Course exams are 15% of the comprehensive final when applicable.

DEMONSTRATING POST SECONDARY READINESS

ACT's College Readiness Benchmarks are the minimum ACT scores required for students to have a high probability of success (achieving the grade of "C" or better) in credit-bearing college courses. English Composition, Algebra, and Biology are the first-credit bearing courses most commonly taken by first-year college students. Reading achievement is also closely aligned with success in social science courses in college.

MHS requires that students select ACT Readiness Preparation and Speech and Communication as one of their electives when needed to demonstrate post-secondary readiness. When students are identified as needing assistance to demonstrate post-secondary readiness, Speech and Communication will be assigned in the 10th grade. Sophomores will have the opportunity to take the ACT Readiness Preparation course based on achievement readiness prior to the junior year. ACT Readiness Preparation class will be scheduled for juniors projected to score below a 25 ACT composite. The ACT benchmark scores are listed under the graduation requirements.

SELECTION CRITERIA FOR ACADEMIC HONOR DISTINCTIONS:

Selection of students will be based on the following requirements:

MARYVILLE JUNIOR HIGH SCHOOL HONOR SOCIETY

The MJHS Honor society is a service and honor organization for 8th and 9th grade students. Students making all A's and one B at the end of the first semester in 8th or 9th grade will be invited to become active members. An induction reception will be held in January or February of each year. Members are expected to uphold high standards of leadership, character, and service through exemplary behavior. On Award's Day, students who meet the criteria will be recognized for their excellent work.

MARYVILLE HIGH SCHOOL HONOR ROLL

- 1) Must have one complete term of grades at MHS at the time of selection;
- 2) Must attain an 85 average or better in each course
- 3) Must have a satisfactory record of attendance
- 4) May not have any out-of-school suspensions

MARYVILLE SCHOLARS AND NATIONAL HONOR SOCIETY

- 1) A junior or senior must have one complete term of grades at MHS at the time of selection;
- 2) Must take at least 3 bonus point courses in grade 10, including Honors English;
- 3) Must take at least 4 bonus point courses in grades 11 and 12, including AP or DE English and representing 3 of the following academic areas: English, math, science, social studies, world languages.
- 4) May have no course grade below C;
- 5) May not have any out-of-school suspensions.

NATIONAL HONOR SOCIETY

The C. D. Curtis Chapter of the National Honor Society is composed of juniors and seniors who have shown outstanding leadership, service, character, and scholarship. Juniors who have met the requirements listed above and who have a weighted GPA of 4.0 or above after the December grading period will be invited into membership. These students will be inducted into the MHS Chapter of the National Honor Society at an evening ceremony in February. Inductees must complete a minimum of 15 hours of service during the junior year. Senior members must complete a minimum of 25 hours of service. All service must be completed on NHS-sponsored projects. Special recognition will be given at graduation to seniors who have exceeded the service expectations: a silver award for 50+ hours of service, a gold award for 75+ hours of service, and a platinum award for 100+ hours of service.

MARYVILLE SCHOLARS

The purpose of the Maryville Scholars Program is to encourage academic excellence by recognizing the top students in grades 11 and 12 who have maintained the highest GPA's while pursuing a rigorous college-preparatory curriculum. The students must meet the guidelines listed above. In order to select the honorees, grade point averages will be recalculated after the grading period ending in March. At this time, twenty-five seniors and twenty juniors will be named Maryville Scholars. At the Maryville Scholars banquet in April, the honorees and the recipients of the Lamar Alexander Scholarships will be recognized.

LAMAR ALEXANDER SCHOLARSHIPS

Two senior Maryville Scholars will be selected by the faculty to receive Lamar Alexander Scholarships. The nominee with the highest faculty vote will receive a \$25,000 scholarship dispersed over 4 years. The nominee with the second highest vote will receive a \$15,000 scholarship dispersed over 4 years. Three other finalists will receive a one-time \$1,000 scholarship in honor of their nomination.

Each scholarship recipient should meet the following criteria:

- 1) exemplifies a dedicated student—one who accepts a challenge and strives for excellence;
- 2) has taken a high percentage of bonus point courses in grades 9-12;
- 3) shows integrity in all aspects of the school community;
- 4) has been involved in service, leadership, and extracurricular activities throughout the high school years.

SELECTION PROCEDURE FOR THE LAMAR ALEXANDER SCHOLARSHIPS

Nominees for the Lamar Alexander Scholarships must be senior Maryville Scholars. Nominations are accepted from the

MHS faculty at large. A standard nomination form for each candidate must be submitted to the Chair of the Maryville Scholars Committee by the given deadline. One member of the Maryville Scholars Committee will read all nomination applications at a designated faculty meeting after school (announced ahead of time), and the name of the nominating teacher will not be disclosed. At the conclusion of the meeting, the first ballot will be cast to determine the names of the five finalists. Each teacher will vote for his/her top five candidates. The next morning the assistant principal (who is also a member of the Maryville Scholars Committee) will take the second ballot to each teacher. At this time each teacher will vote for two candidates. If no student has a clear majority at this time, then a third vote will be conducted.

If there are two clear leading candidates, two names will appear on the final ballot. If the top three candidates are within 2-3 votes of one another, then three names will appear on the final ballot. The assistant principal will take the third ballot to each teacher for the final vote. Again, each teacher will vote for one candidate. From this final vote, the winners will be determined.

First place--\$25,000 scholarship winner (dispersed over 4 years)

Second place--\$15,000 scholarship winner (dispersed over 4 years)

The other 3 finalists will receive a one-time \$1,000 scholarship in honor of their nomination.

Stipulations

1. Scholarships will be paid directly to the student's school of choice.
2. This is an undergraduate scholarship only.
3. The ballots will be dispersed, collected, and counted by an assistant principal and the Chair of the Maryville Scholars Committee.
4. A student who has received a full-ride scholarship is not eligible. If a student is selected for the scholarship and later obtains a full-ride scholarship, then the money will go back into the Lamar Alexander Scholarship fund for future disbursement.

GRADING SYSTEM FOR GRADES 8-12

Maryville Junior High School and Maryville High School use the uniform grading system established by the State Board of Education designed for the purposes of application for post-secondary financial assistance administered by the Tennessee Student Assistance Corporation. Subject area grades shall be expressed by the following letters with the corresponding percentage range.

UNIFORM GRADING SCALE: A = 93-100 B = 85-92 C = 75-84 D = 70-74 F = Below 70

MARYVILLE JUNIOR HIGH SCHOOL

- Students taking a credit bearing course in 8th grade (Algebra 1 & Foreign Language) will receive a P (passing) or F (failing) grade on his/her transcript. The grade will not factor into the high school GPA.
- TNReady assessments will compose 15% of second semester average in TNReady assessed courses.
- For Advanced Coursework, the semester average is calculated by adding additional percentage points to the student's quarter grades (Q1, Q2, Q3, and Q4), and to the student's TNReady exam grade (which is 15% of second semester average).
- Honors courses that provide additional rigor and substantially exceed the academic standards approved by the State Board of Education shall include the addition of 3 percentage points to the quarter grades (Q1-Q4) to calculate the semester average.
- Local and Statewide Dual Credit Courses, Capstone Industry Certification Courses, and Dual Enrollment Courses that are successfully passed shall include the addition of 4 percentage points to the quarter averages (Q1 –Q4) used to calculate the semester average for students.
- Advanced Placement (AP), Cambridge International, College Level Exam Program (CLEP), and International Baccalaureate (IB) Courses shall include addition of 5 percentage points to the quarter grades (Q1-Q4) used to calculate the semester average for students.
- Students who take Advanced Coursework and choose not to sit for the course identified certification or challenge exam will only receive honors level percentage points.

MARYVILLE JUNIOR HIGH SCHOOL

Make-up Work Policy

Students are expected to make-up all work missed due to absences, regardless of the nature of the absence. Students have the responsibility for arranging make-up work with their teachers prior to or upon return to school from an absence. Work missed due to absences of more than one day is to be made up within the number of school days missed. Parents and students may access course assignments and homework via Canvas.

MARYVILLE HIGH SCHOOL

- Honors courses that provide additional rigor and substantially exceed the academic standards approved by the State Board of Education shall include addition of 3 percentage points to the grades used to calculate the semester average.
- Students who sit for Industry Certification-Aligned course exams, students in Local Dual Credit passing course work, and State-wide Dual Credit classes who sit for the identified statewide dual credit challenge exam shall have 4 percentage points added to the grades used to calculate the semester average.
- Advanced Placement (AP), Cambridge International, College Level Exam Program (CLEP), and International Baccalaureate (IB) Courses shall include addition of 5 percentage points to the grades used to calculate the semester average for students who sit for the identified exam.

Students who take Advanced Coursework and choose not to sit for the course identified certification or challenge exam will only receive honors level percentage points.

Teachers work collaboratively to plan instructional strategies and assessments that best promote and allow students to demonstrate proficiency. Course work is 75% of a student's grade. A comprehensive final assessment is 25% of the student's grade. State required EOC tests will be 15% of the 25% final assessment grade. Weighting Advanced Coursework with percentage points shall be made to each grade used to determine the semester average. Numerical averages of .5 or higher will be rounded up (.49 shall not be rounded up).

Example: Classwork $[(88+5)3 + \text{EOC Exam } (90+5)] / 4 = 93.5$ Final Average

Semester Average = 94

GRADE POINT AVERAGE AND CLASS RANK

The cumulative grade point average includes grades earned in all courses. The grade point average is based on a fixed quality point system with additional points added to the passing grades for courses designated within the Tennessee State Board of Education Uniform Grading Policy (T.C.A. 49-6-407 3.301) as Advanced Coursework. Failure to remove an "I" (Incomplete) one year from the date of issuance will result in a grade of "F."

Numerical student ranking will not be provided, but in order to assist college admissions personnel in the evaluation of our students, a distribution of grade point averages by 5% increments will be available. For the graduating classes of 2020 and beyond

- Weighted GPA will be calculated on all course work as outlined in the Maryville High School Course Catalogue.
- Maryville City Schools shall not rank students numerically, and a valedictorian and salutatorian will not be named.
- Instead, MHS will use the following Latin System for honors recognition:

Summa Cum Laude : 4.45 and above

Magna Cum Laude: 4.25 – 4.44

Cum Laude: 3.95 – 4.24

MHS GPA QUALITY POINT TRANSCRIPT CALCULATION FOR COURSES

Assigned quality points above 4.0 are not allowed for determining eligibility for the lottery scholarships. Quality Points will be awarded based on successful completion of the course. *ADDENDUM 1*

<u>GRADE</u>	<u>VALUE</u>	<u>REGULAR</u>	<u>HONORS/LOCAL DUAL CREDIT/INDUSTRY CERTIFICATION</u>	<u>STATEWIDE DUAL CREDIT/DUAL ENROLLMENT</u>	<u>AP/IB</u>
A	93-100	4	4.5	4.75	5
B	85-92	3	3.5	3.75	4
C	75-84	2	2.5	2.75	3
D	70-74	1	1.5	1.75	2
F	0-69	0	0	0	0

The teacher of record for courses taught at an IHL is responsible for assigning the final grade, numeric or alpha, for student work. The IHL transcript alpha grade will be listed on the MHS transcript and used for the weighted GPA calculation. When the institution's transcript provides only a letter grade the student's grade will be converted according to the following chart:

Letter Grade Received from IHE	Numerical Grade Conversion
A	95
B	85
C	75
D	70
F	65

CLEP- Students choosing to take a CLEP exam that correlates to any coursework taken at Maryville High School may receive an additional 1.0 GPA quality point on their MHS transcript. In order to receive the credit students must complete the following:

- Obtain approval from teacher and administration before taking the exam
- Bring proof of the assessment to MHS Guidance

**Additional points and credit cannot be awarded for courses in addition to an AP exam.*

PASS/FAIL GRADING

Pass/Fail grades are not used in figuring the cumulative grade and have no impact on the grade point average. A student wanting to take an elective course of interest without said course reflecting in their GPA may apply for a P designation upon earning an A for their course work.

Criteria for Graded Course Waiver

- ❖ Students in grades 10-12 may apply for the waiver when carrying 6 or more core academic courses
- ❖ This option can only be applied to course work electives that exceed graduation requirements
- ❖ A student may only apply for one noncredit course (1 credit) within a school year; i.e. waiver, TA, PE, etc.
- ❖ A grade of **A** must be earned in the selected course to earn the opportunity to substitute a P and the Application for Possible Grade Waiver must be completed during the 1st week of instruction.

SUMMER SCHOOL

Maryville High School will accept no more than two (2) credits earned in any one summer from a pre-approved summer school. Summer school is an optional program and may or may not be held at Maryville High School during the summer.

- A. The summer term for a semester credit is 19 days of 3.5 hours of instruction per day.
- B. Summer school and after school courses for remediation will not receive bonus points.
- C. Students who fail a course must repeat the entire course during the regular academic year or in an approved summer school or after school program.

CREDIT RECOVERY

MARYVILLE JUNIOR HIGH SCHOOL AND MARYVILLE HIGH SCHOOL

Credit recovery is for students who do not earn credit in a given course.

Eligibility Requirements:

1. The student's parent or legal guardian gives written consent for the student to enroll in the proposed credit recovery course.
2. The student has previously taken an initial, non-credit recovery section of the proposed course. Credit recovery is designed to be a remediation option for students, and a credit recovery course shall not be the first time a student is exposed to the course content.
3. The student mastered at least fifty percent (50%) of the course standards as evidenced by the course grade in a non-credit recovery section of the course or a diagnostic assessment. Students who mastered below fifty percent (50%) of the course standards as evidenced by the course grade in a non-credit recovery section of the course or a diagnostic assessment must re-take the course.

If a student is seeking to recover credit for the first semester of a two (2)-semester course, the student may not receive the full credit for the course until they have enrolled in and passed the second semester of the course and taken any applicable End of Course examinations.

Maryville Junior High School and Maryville High School may set additional requirements for admission to and removal from credit recovery programs including but not limited to attendance, discipline, availability of coursework, availability of space, appropriate progress and grades.

Teachers of record are responsible for reviewing initial student diagnostic results; assisting in determining appropriate goals, coursework, and assignments for their students; working closely with credit recovery facilitators on class content and instruction; and reviewing final student work.

Credit recovery courses shall be aligned with Tennessee's current academic standards for the relevant course content area, as approved by the State Board of Education.

Credit recovery content may be delivered through instructional technology.

Grades:

Students passing credit recovery shall receive a grade of seventy percent (70%). The student transcript shall denote that the credit was attained through credit recovery. The original failing grade may also be listed on the transcript, but shall not factor into the students GPA, in accordance with the State Board of Education's Uniform Grading Policy.

MCS PROMOTION AND RETENTION POLICY

- A student will not be retained in the same grade more than one time except in unusual circumstances.
- Retention will not be used as a disciplinary measure.
- Except for state testing requirements, certified and verified students with disabilities are exempt from this policy.
- A parent may appeal any promotion – retention decision, in turn to the principal, Director of Schools and Board.

Promotion and Retention (Grades 4-8)

To be promoted to the next grade, students will achieve a yearly average grade of 70 or above in both mathematics and

language arts, as well as in a majority of other subjects offered. Students who fail to reach this standard will be referred by their teacher(s) for a review by the administration. Following a review of the student's school performance, related circumstances, and the recommendation of the student's teacher(s), an administrative placement will be made in the best interest of the student.

Promotion and Retention (Grades 9-12)

Each student is a member of a cohort group determined by the year they entered 9th grade. Students will progress through grades 9-12 with their cohort group. Students must meet graduation requirements within 4 years and a summer to receive a high school diploma.

CHANGE OF SCHEDULE

MJHS Policy:

The Master Schedule is created on the basis of student course recommendations and requests received during annual registration.

Should unavoidable scheduling conflicts arise, students will be given an alternate request.

Schedules will be adjusted within the first ten (10) days of the fall semester for students. A schedule change request form will be available in the MJHS school counseling office and online.

Changes in level can only take place prior to the end of the first quarter (first nine weeks) of the term through a collaborative process to include the student, parent, and teacher. After that time, level changes will only take place through a collaborative process with administrative approval following a student/parent/teacher/school counselor conference.

MHS Policy:

Students' schedules are considered complete after the spring schedule verification process has been completed. MHS schedules will be reviewed for adjustment within the first five days of the fall term for students who are academically overloaded or are misplaced in a course. **Requests for withdrawal from a class after the first 4.5 weeks of the term will result in a grade of "F".**

ATHLETIC ELIGIBILITY

To be eligible to participate in athletic contests at Maryville High School, a student must earn six credits the preceding school year. All credits must be earned by the first day of the beginning of the school year. Student athletes who are ineligible for the first term of a school year can gain eligibility for the second term by earning credit in three courses at the end of the first term. Courses repeated by a student after credit has been earned cannot count for eligibility purposes. Student-athletes are encouraged to obtain a copy of the MHS publication "Academics and Athletes" for more specific information on T.S.S.A.A. and N.C.A.A. participation requirements. [TSSAA policy](#)

NON-TRADITIONAL COURSE POLICY

Definition. A non-traditional course is a course taught through an accredited secondary or post-secondary institution. Credit will be awarded when a transcript is provided to the appropriate department administrator.

Application process. PRIOR to requesting credit for a non-traditional course, the student will need:

- 1) Administrative approval for credit recovery required for high school graduation.
- 2) Program coordinator approval for dual enrollment.
- 3) Administrative approval for special programs (i.e. Governor's School) that generate a college transcript.

Credit and transcript- Students are required to submit transcripts for all non-traditional courses to the appropriate administrator by the date set to receive a credit. Only non-traditional college credit courses (Dual Enrollment approved before enrollment in the course) completed with a passing grade will be awarded bonus points on the Maryville High School transcript and weighted GPA.

SPECIAL EDUCATION

Maryville City Schools offer a wide spectrum of programming for students with special needs. Services are offered on a continuum from the least restrictive to the most restrictive environment that include general education classes with modifications and/or inclusion support as needed, comprehension development classes, behavior management classes, counseling and social skills training, speech, language, hearing, vision, physical therapy, occupational therapy, and

homebound instruction. Students who are educationally, physically, and/or emotionally disabled may be enrolled in one or more special education instructional programs. Gifted students are offered placement in accelerated levels of English, mathematics, science, and social studies.

COLLEGE CREDIT COURSES

The Advanced Placement (AP) Program

Advanced Placement is designed to provide students with an opportunity to receive college credit for introductory college courses and move directly to more interesting and challenging courses. All courses are taught according to the College Board Advanced Placement guidelines and students will use college level texts. To qualify for college credit, Advanced Placement exams must be taken on a specific date and hour during the second or third week of May. Each test is designed and will be scored by the Educational Testing Service. Students who choose to take AP course work are expected to take the AP exam and will be responsible for its cost. Students who perform well can receive course credit and/or advanced standing at thousands of colleges and universities worldwide.

Specific course descriptions can be found by academic discipline in this catalogue. [*MJHS & MHS]

Math:	AP Environmental Science	AP Latin	Fine Art:
AP Statistics	AP Physics 1	AP Spanish	AP Art History
AP Calculus AB	AP Physics 2	Social Studies:	AP Music Theory
AP Calculus BC	English:	AP Economics	AP Studio Art Drawing
Science:	AP English 3 Language	AP European History	AP Studio Art 2-D, 3-D
AP Biology	AP English 4 Literature	AP Government	Cross-Curricular:
AP Chemistry	World Language:	AP Human Geography*	AP Seminar
AP Computer Science	AP French	AP Psychology	AP Research
		AP U.S. History	

Early College Experience Programming

Dual Enrollment

Students who have ACT sub-scores of 19 or higher and a composite of 19 or higher, along with a 3.0 G.P.A., have the privilege of earning college credit while still enrolled in high school. Students may earn college credit through Maryville College, Pellissippi State, or The University of Tennessee. Students who meet the qualifications will be eligible for 2 \$500.00 scholarships and 1 \$200 scholarship during their final two years of high school. This scholarship is provided through the Lottery Corporation. Students wishing to pursue college credit courses must meet several criteria.

- A. 19 or higher on all ACT sub-scores and composite
- B. 3.0 G.P.A.
- C. Completion of Maryville High School Dual Enrollment Registration (accompanied by copy of college admission application and copy of dual enrollment grant application – (submit copies to Robin Burchfield)
- D. Registration in Maryville High School’s Early College Experience – (submit copies to Robin Burchfield)
- E. Completion of Maryville High School’s Early College Experience Release – (submit copies to Robin Burchfield)
- F. Admission into college by completing college application (found on college website) – (submit copies to Robin Burchfield)
- G. Completion of Dual Enrollment Grant Application – (submit copies to Robin Burchfield)
- H. Completion of Immunization Waiver – (submit copies to Robin Burchfield)
- I. Payment of college tuition
- J. Transportation to college courses
- K. Purchase of college textbooks

L. To maintain the Dual Enrollment Lottery Scholarship, students must maintain a 2.75 G.P.A. in their college courses

If students enrolled in college courses take these classes on the college campus, students must follow their school's rules and schedules. On the days and times students are not on the college campus, they will report for their normal high school classes at Maryville High School, following the rules and schedules of MHS. Some Dual Enrollment classes may be taught at MHS. Students may pursue college credit in the academic areas of English, psychology, and biology and in any other academic course approved by the administration. Certain dual enrollment courses are also offered through the Career and Technical Education Program and area community colleges, such as Pellissippi State. These courses have different admissions requirements. For additional information, please refer to Career and Technical course descriptions.

Dual Enrollment Grading Policy

The teacher of record for courses taught at an IHL is responsible for assigning the final grade, numeric or alpha, for student work. The IHL transcript alpha grade will be listed on the MHS transcript and used for the weighted GPA calculation.

When the institution's transcript provides only a letter grade the student's grade will be converted according to the following chart:

Letter Grade Received from IHE	Numerical Grade Conversion
A	95
B	85
C	75
D	70
F	65

Local Dual Credit

Maryville City Schools has partnered with Pellissippi State Community College (PSCC) to provide Maryville students the opportunity to earn local college dual credit (LDC) for certain Maryville Junior High and Maryville High School courses. If students pass an assessment provided and graded by Pellissippi State, they will receive local college dual credit for a college-level class.

Students in good standing will be eligible for this early post-secondary opportunity (EPSO). For students wishing to receive these college credit hours, they will complete a PSCC online application (for which they will need their social security numbers). A collaborating Pellissippi professor responsible for the college course will evaluate a student-completed test, portfolio, or production. If students meet these conditions, and pay the non-refundable \$25 fee, they will receive 3 college credit hours at PSCC for the college course. However, other colleges and universities may not count these credits toward their degree programs. The timeline and criteria are as follows:

1. Interested students will complete a Pellissippi State Community College Application Form in class (must have SSN). (end of September or February)
2. Interested students and their parent/guardian will complete a Dual Credit Assessment Application, and students must pay a non-refundable \$25 fee. (end of October or March)
3. Students must be in good standing (85 average) in their MJHS/MHS class to be eligible AND have completed class work to a level of proficiency deemed appropriate by the MJHS/MHS teacher for submission. (end of November or April)
4. The MJHS/MHS teacher will submit student tests, portfolios or productions to the professor for evaluation. (by end of November or April)
5. The PSCC professor will evaluate the student exams, portfolios, or productions and decide if credit is to be awarded.
6. A list of students who earned college credit and their grade will be available by the time school resumes in the fall. Students may see the MJHS School Counselors or MHS Dual Enrollment Coordinator to learn their results. These results will also be placed on students' MHS transcripts.

MJHS/MHS is excited to offer this Early Post-Secondary Opportunity to our students.

Students may pursue college credit in the academic areas of English, psychology, and biology and in any other academic course approved by the administration. Certain dual enrollment courses are also offered through the Career and

Technical Education Program and area community colleges, such as Pellissippi State. These courses have different admissions requirements. For additional information, please refer to Career and Technical course descriptions.

PELLISSIPPI STATE

MHS students who have ACT subscores of 19 or higher and a composite of 19 or higher, along with a 3.0 G.P.A., have the privilege of earning college credit through Pellissippi State. Students wishing to pursue college credit must meet several criteria. Successful completion of a dual enrollment course results in an [EPSO](#).

DE English Composition I 1010 (with College Credit at Pellissippi State) (1 credit)

MHS Code: ENC10DS TN Code: G01H30

English Composition I 1010 is the study and practice of expository and persuasive writing. Topics include critical reading and writing essays, with emphasis on research, writing processes and effective formatting. Students wishing to pursue dual enrollment English will register for English Composition I 1010 in order to meet their high school graduation requirements. This is a 3-hour college course and is a level II MHS course, which earns .5 bonus point on the MHS grade point average and 1 bonus point on the MHS grade point average beginning with the class of 2019. (Students who score a 4 or 5 on the AP Junior English, Language and Composition Exam will be eligible to receive credit for 1010 and can move on to English Composition 1020.)

DE English Composition II 1020 (with college credit at Pellissippi State) (1 credit)

MHS Code: ENCP1DS TN Code: G01H31

DE English Composition II 1020 includes analytic writing based on the study of literature and the study and practice of research writing. DE English Composition II 1020 meets 2 or 3 days per week on the Pellissippi State campus. English Composition II 1020 is a 3-hour college course and is a level II MHS course, which earns .5 bonus point on the MHS grade point average and 1 bonus point on the MHS grade point average beginning with the class of 2019. (Students who score a 4 or 5 on the AP Junior English, Language and Composition Exam will be eligible to receive credit for 1010 and can move on to English Composition 1020.)

DE Psychology (with college credit) (1 credit)

MHS Code: SSPS3DS TN Code: G04H44

Juniors and seniors enrolled in Psychology SSPS1DS will take this course for dual enrollment credit. This course will be offered through Pellissippi State Community College with classes conducted on the PSCC campus. It will require a research project with documentation and two teacher conferences per term. This course requires the purchase of a textbook.

DE Biology (with college credit) (1 credit)

MHS Code: SCBI1DS TN Code: G03H45

Prerequisite: Biology 1 and Chemistry 1

Students will engage in an in-depth study of the principles of biology. This course emphasizes internal and external structures and their functions, the environmental interactions of organisms, processes of living things, mechanisms that maintain homeostasis, biodiversity, and changes in life forms over time. An inquiry approach is utilized to explore major biological concepts. This dual credit course is a four-hour course with a required lab. This course requires the purchase of a textbook.

DE Calculus (1 credit)

MHS Code: MACA2DS TN Code: G02H51

- **Prerequisite: Pre-Calculus Honors and Teacher Recommendation**

Topics include differentiation and integration of polynomial, rational, exponential, and logarithmic functions and methods of numerical integration. Topics from business modeling, such as economic applications and case studies, are explored with computer simulations, computer labs, or calculators. A graphing calculator is required. Requires ACT scores of 18 in English, 19 in Reading, and 22 in Math.

DE Elementary Probability and Statistics (1 credit)

MHS Code: MAPRODS TN Code: G02H49

- **Prerequisite: Algebra 2 or Completion of SAILS math and Teacher Recommendation**

Topics include elementary probability theory, concepts of descriptive statistics, discrete and continuous distributions, hypothesis testing, confidence intervals, sample sizes, correlation, regression, multinomial and contingency tables. Non calculus-based computer applications will be investigated. Requires ACT scores of 18 in English, 19 in Reading, and 19 in Math.

MARYVILLE COLLEGE

Courses will be taught on the Maryville College campus. Students who have ACT subscores of 19 or higher, along with a 3.0 G.P.A., have the privilege of earning college credit for these courses. For students who are approved for the dual enrollment grant, the only cost will be the cost of a textbook. This is a 3-hour college course that is transferable. Successful completion of a dual enrollment course results in an [EPSO](#).

DE English Composition and Speech I 110 (with college credit at Maryville College) (1 credit)

MHS Code: ENE1MDS TN Code: G01H30

DE English Composition I 110 develops students' skills in communicating clearly through writing and speech, with attention to all stages of the composing process, including analysis on the rhetorical situation, invention and drafting, choices of evidence, peer conferencing, and revision. Students complete a variety of essays and presentations, with emphasis on persuasion and basic research. Because ENG 110 particularly emphasizes grammatical proficiency, students identified as needing extra support in grammar and mechanics receive additional mandatory small-group or individualized instruction. English Composition and Speech I 110 is a 3-hour college course and is a level II MHS course, which earns .5 bonus point on the MHS grade point average and 1 bonus point on the MHS grade point average beginning with the class of 2019.

DE English Composition and Speech II 120 (with college credit at Maryville College) (1 credit)

MHS Code: ENE2MDS TN Code: G01H31

- **Prerequisite: English 110 or placement into the course**

DE English Composition and Speech II 120 hones students' skills in writing and speech, with particular emphasis on strategies and sources appropriate for academic and professional work. It also provides instruction in argumentation and library research that supports students' completion of an extended researched argument as well as multiple shorter writing assignments and presentations. English Composition and Speech II 120 is a 3-hour college course and is a level II MHS course, which earns .5 bonus point on the MHS grade point average and 1 bonus point on the MHS grade point average beginning with the class of 2019.

FRAMEWORK OF STANDARDS FOR HONORS COURSES

Honors courses will substantially exceed the content standards, learning expectations, and performance indicators approved by the State Board of Education. Teachers of honors courses will model instructional approaches that facilitate maximum interchange of ideas among students: independent study, self-directed research and learning, and appropriate use of technology. All honors courses must include multiple assessments exemplifying coursework such as short answer, constructed-response prompts, performance-based tasks, open-ended questions, essays, original or creative interpretations, authentic products, portfolios, and analytical writing. Additionally, an honors course shall include a minimum of five of the following components:

Extended reading assignments that connect with the specified curriculum.

Research-based writing assignments that address and extend the course curriculum.

Projects that apply course curriculum to relevant or real-world situations. These may include oral or PowerPoint presentations or other modes of sharing findings. Connection of the project to the community is encouraged.

Open-ended investigations in which the student selects the questions and designs the research.

Writing assignments that demonstrate a variety of modes, purpose, and styles.

Examples of mode include narrative, descriptive, persuasive, expository, argumentative, and expressive.

Examples of purpose include to inform, entertain, and persuade.

Examples of style include formal, informal, literary, analytical, and technical.

Deeper exploration of the culture, values, and history of the discipline.

EIGHTH GRADE CORE COURSES:

Language Arts

MJHS Code: LA830, LA840

- **Grade Level: 8**

This course emphasizes writing, reading, vocabulary, grammar, listening, and research skills. Reading instruction includes exploring, analyzing, and responding to various genres of writing. This course uses cooperative learning and higher level thinking skills for varied instruction. Literacy skills are increased through reading and writing tasks

Language Arts Honors

MJHS Code: LA820

- **Grade Level: 8**

See Framework of Standards for Honors Courses.

This course prepares students to complete multi-paragraph narrative and argumentative compositions based on a variety of purposes and audiences, complete book reports, make oral presentations, prepare interdisciplinary research projects, and analyze written works. Students must have solid grammar and writing skills, strong reading comprehension, and the ability to work independently as well as in a collaborative setting.

Math

MJHS Code: MA820, MA830

- **Grade Level: 8**

This course provides an overview and exploration of various math concepts and applications. The course explores and applies number systems, expressions and equations, functions, Geometry, statistics and probability, standards for mathematical practice and standards for mathematics literacy.

***Note:** Students may be recommended for Algebra 1. See high school course description on page 31. Students who pass a course taken for high school credit prior to grade nine will advance to the next course in sequence and the transcript will indicate that the course was passed. The course will appear on the transcript, but will not be included in the calculation of the GPA. With approval from the MJHS principal, a student may repeat the course. In that case, there will be no record of the course taken prior to grade nine on his/her transcript.

Science

MJHS Code: SC820, SC830

- **Grade Level: 8**

This course is an exploration of all three dimensions of science instruction: science and engineering practices, crosscutting concepts, and disciplinary core ideas. The four Disciplinary Core Ideas (DCI) provide organization of content, further clarified in developed in component ideas in Physical Science, Life Science, Earth and Space Sciences, and Engineering, Technology, and Applications of Science.

Science Honors

MJHS Code: SC810

- **Grade Level: 8**

See Framework of Standards for Honors Courses

This course is an exploration of all three dimensions of science instruction: science and engineering practices, crosscutting concepts, and disciplinary core ideas. The four Disciplinary Core Ideas (DCI) provide organization of content, further clarified in developed in component ideas in Physical Science, Life Science, Earth and Space Sciences, and Engineering, Technology, and Applications of Science.

Social Studies

MJHS Code: SS820

- **Grade Level: 8**

Eighth grade students will study the European exploration of North America, along with the geographic features that influenced early settlements and colonies. This course will emphasize the development and maturation of the British colonies, and the political, cultural, and economic influences that led to the American Revolution. The major events and outcomes of the American Revolution will be analyzed, along with the individuals that played influential roles in the development of the new nation. Students will follow the development of the United States and its government, continuing through the early 19th century. The impact of the expansion of the United States will be analyzed, including implications on domestic and foreign policy. Policies that affected the American Indians will also be studied. The events leading up to the Civil War will be examined, along with the individuals and events that were significant during the war. The history, people, government, and geography of Tennessee will be emphasized in order to illustrate the role our state has played in American history. Reconstruction and the development of the American West will conclude this course. Appropriate primary sources and informational texts will be included in order to enhance understanding of the content.

Social Studies Honors

MJHS Code: SS810

- **Grade Level: 8**

See Framework of Standards for Honors Courses.

Eighth grade students will study the European exploration of North America, along with the geographic features that influenced early settlements and colonies. This course will emphasize the development and maturation of the British colonies, and the political, cultural, and economic influences that led to the American Revolution. The major events and outcomes of the American Revolution will be analyzed, along with the individuals that played influential roles in the development of the new nation. Students will follow the development of the United States and its government, continuing through the early 19th century. The impact of the expansion of the United States will be analyzed, including implications on domestic and foreign policy. Policies that affected the American Indians will also be studied. The events leading up to the Civil War will be examined, along with the individuals and events that were significant during the war. The history, people, government, and geography of Tennessee will be emphasized in order to illustrate the role our state has played in American history. Reconstruction and the development of the American West will conclude this course. Appropriate primary sources and informational texts will be included in order to enhance understanding of the content. This will provide the new course description

Wellness

MJHS Code: PEWE0

- **Grade Level: 8**

This course is divided into two categories: **physical education and classroom instruction**. **Physical education** is designed to meet the various interests and needs of students. The five primary components of the program are: fitness, team sports, lifetime sports and physical activities, creative games, and Project Adventure teambuilding challenges. This course provides opportunities for students to acquire knowledge regarding personal fitness, participate in various skills practice and activities, and develop positive attitudes toward living healthy lifestyles. **Classroom instruction** stresses the continuation of individual growth in assuming responsibility toward personal wellness. Students will understand and apply the principles of good physical, mental, and emotional health, avoidance of substance use and abuse, character development, disease control, nutrition, fitness, emergency care management (including CPR), consumer health, environmental health, family life, prevention of illness and disease through lifestyle changes, prevention of bullying, teasing, gossiping, and sexual harassment, management of depression, self-concept, body image, and the body systems.

Eighth Grade Elective Courses

Academic Success Suite: A recommendation is required

MJHS Codes:

SAAA1 Academic Success

SAAM1 Academic Success Math

SAMR1 Academic Success Math/Reading SAAR1 Academic Success Reading

These courses are designed to assist students in increasing reading and math skills to on grade level performance.

Computer Science Independent Study: Application is required MJHS Code: CTCS8

This course is a hands-on introduction to computer science for 8th grade students. The course will consist of three parts: working in the Help Desk, taking part in a self-paced Introduction to Computer Science course online, and working with the instructor to develop a year-long individualized capstone project/portfolio in one of two different focus areas: "Programming WebApps, Apps, and Games" or "Computer/Hardware Repair and Prototyping." Students will also help develop the MJHS Help Desk website through creating written instructional materials, maintaining a technology blog, and creating instructional videos. As an independent study course, requirements to take this course include self-motivation and an interest in computer science and technology, as well as completing an application with teacher recommendation. This will provide the new course description

English Language Development: A recommendation is required MJHS Code: ELD08

The ELD curriculum is a general set of English language acquisition standards that should be used in conjunction with content standards. These standards address the language support necessary to enable the English Learner (EL) to access the grade level content curriculum by providing a bridge for ELs to the academic content curriculum.

Gateway to Technology MJHS Code: CTST0

This course, Project Lead the Way (GTT) features a project-based curriculum designed to challenge and engage the natural curiosity and imagination of 8th grade students. There are two foundational units in GTT: Automation and Robotics (AR) and Design and Modeling (DM). In AR, students will trace the history, development, and influence of automation and robotics. They will learn about mechanical systems, energy transfer, machine automation, and computer control systems. Students will use a robust robotics platform to design, build, and program a solution to solve an existing problem. In DM, students will begin to recognize the value of an engineering notebook to document and capture their ideas. They will be introduced to and use the design process to solve problems and understand the influence that creative and innovative design has on our lives. Students will use industry standard 3D modeling software to create a virtual image of their designs and produce a portfolio to showcase their creative solutions.

Instrumental Music-Band MJHS Code: FABA8

This course requires playing at an intermediate or advanced level. Emphasis is placed on building a musical foundation that will help students succeed in individual and group performance. Special attention is focused on the skills required for Junior Clinic. Afterschool performances and scheduled rehearsals are required.

Instrumental Music-Orchestra MJHS Code: FAOR8

This course requires the continued development technique through scales, bowings, shifting and vibrato. Students will learn various styles of music and will perform in four concerts a year. All students may choose to audition for Junior Orchestra Clinic. Advanced students may audition and participate in a before-school Chamber Orchestra. Afterschool performances and scheduled rehearsals are required.

Learning Support: A recommendation is required MJHS Code: SALS1

The course is designed to assist students with organization, study skills, and monitoring of work completion, and the development of good academic habits.

Peer Tutoring: Application is required
MJHS Code: SAPT1

This course requires students to assist in the MJHS Special Education Department. An understanding of various disabilities and trends/contemporary issues dealing with these disabilities will be gained. This course is suggested for students considering entering a career involving teaching and working with adults and children who have disabilities. Peer tutors may be required to accompany and assist students with disabilities in general education classes or work with students in a Special Education classroom. Weekly reflections required. Some independent study/assignments are required.

Shop: Industrial Arts
MJHS Code: CTSH0

This course includes woodworking and entry-level computer-aided drawings. Students will learn the proper use of hand and machine tools. Emphasis will be on safety and proper use and care of tools and machines. Each student will design and build a project or projects during the year. Students will also work with design software which will be used for 2D and 3D drawings and bridge designs. They will also work with computer programs which are designed to help with computer maintenance and upgrading.

Student Assistant: Application is required
MJHS Code: SATA8

In this course, students will assist school staff in a multitude of facets and only students who demonstrate integrity, responsibility, and maturity need apply. It is a privilege to serve in this role. Both 8th and 9th grade students can submit an application for a main office or library assistant and will be assigned according to staff needs.

Teen Living
MJHS Code: PETL0

This course empowers students to assume personal responsibility in a diverse and ever-changing society. The course assists students in making a seamless transition into upper grade level academics leading to a successful and productive adult life. Students develop transferable work place skills and habits. Instructional content includes academic integration, technology application, career planning, money management, nutrition, fitness, and personal health, personal appearance and environment, family relationships, child development, adolescent issues, leadership and citizenship.

Theatre
MJHS Code: FATH8

This course empowers students to explore the world of theatre and acting. Activities include learning acting skills such as improvisation, mime, and acting techniques for acting on stage and acting in film. Students also learn basic lighting, costume, and set design, as well as basic video editing. Projects include many group activities, such as performing as an Air Guitar Band, creating an old timey radio broadcast, making short films, and producing a one-act play performed in school. Eighth grade students who take Theatre may apply for the Drama Intermediate class as in the 9th grade.

Visual Arts
MJHS Code: FAVA8

This course offers art experiences in fine/visual arts, crafts, art history/culture, and art appreciation, stressing the importance of the art "process," not simply just the end product. Students will review the visual elements of art and compositional principles of design. Students will be exposed to projects/forms of expression, including: drawing (still life, human figure, realism), shading techniques/skills/methods, mask making, painting (watercolor, acrylic), posters, banners,

sculpture creations, weaving, printmaking, and much more. The goals of this art education curriculum are to teach students the possibilities of communicating a variety of ideas and emotions via many diverse ways, to foster students' confidence in their creativity/creative intelligence, and to promote the development of higher-order thinking skills. Students will work with a variety of materials and will be introduced to art history through correlation of artists with assigned projects.

Vocal Music: Girls Chorus

MJHS Code: FAVMF

This course is appropriate for beginning through advanced-level choral students. Admission is restricted to female students, but no audition is required. The course covers the basics of music literacy, vocal production, performance preparation, and public performance. The choir will perform high-school-appropriate repertoire of beginning-level difficulty from all stylistic periods (1-2 on a scale of 1 to 6) under the name "The Maryville Girls' Chorus." Afterschool performances and scheduled rehearsals are required.

Vocal Music: Boys Chorus

MJHS Code: FAVMM

This course is appropriate for beginning through advanced-level choral students, and may be repeated. Admission is restricted to male students, but no audition is required. The course covers the basics of music literacy, vocal production, performance preparation, and public performance. The choir will perform high-school-appropriate repertoire of beginning-level difficulty from all stylistic periods (1-2 on a scale of 1 to 6) under the name "The Maryville Boys' Chorus." Afterschool performances and scheduled rehearsals are required.

Yearbook:

MJHS Code: SAY80

This course focuses on the design and development of the school yearbook is created using page layouts, journalism, interviewing and proofreading skills, editing, and photography. Creativity, meeting deadlines, and writing skills are very important.

**COURSE OFFERINGS FOR HIGH SCHOOL CREDIT:
(All courses are not offered every year)**

***Note:** Certain elective courses will be available to 8th grade students by meeting prerequisite requirements and teacher recommendation ONLY. For High School courses taken prior to the ninth grade; credit will be issued, but grades will not be calculated into the high school GPA.

Students will be recommended for course placement by teachers based on their academic progress and achievement data. Students and parents should reference the Family Report Guide [<http://familyreport.tnedu.gov/>] provided on each previous year's TN Ready/EOC student report for information about strengths, areas of improvement, and next steps to identify how to best prepare for the next level in a particular subject area. Additional information on how to further prepare can be found in the Pre-ACT and ACT score reports. Following the prescribed scope and sequence as identified by prerequisites and teacher recommendations will ensure adequate preparation for high school coursework.

**Fine Arts
CHORAL ARTS**

Chorus: Intermediate Female

(1 credit)

MJHS: FAVHF

MHS Code: FAIFCSS

TN Code: G05H40

- **Grade level: 9-12**

This course is appropriate for beginning through advanced-level choral students and may be repeated. Admission is

restricted to female students, but no audition is required. The course covers the basics of music literacy, vocal production, performance preparation, and public performance. The choir will perform repertoire of intermediate-level difficulty from all stylistic periods (3-4 on a scale of 1 to 6) under the name “The Belles of Maryville” or “The Maryville Festival Chorus” when combined with the Intermediate Male class. A course fee will be charged.

Chorus: Intermediate Male (1 credit)

MJHS: FAVHM MHS Code: FAIMCSS TN Code: G05H40

- **Grade level: 9-12**

This course is appropriate for beginning through advanced-level choral students and may be repeated. Admission is restricted to male students, but no audition is required. The course covers the basics of music literacy, vocal production, performance preparation, and public performance. The choir will perform repertoire of intermediate-level difficulty from all stylistic periods (3-4 on a scale of 1 to 6) under the name “Maryville Men” or “The Maryville Festival Chorus” when combined with the Intermediate Female class. A course fee will be charged.

Chorus: Advanced Mixed (2 credits)

MHS Code: FAAMCSS TN Code: G05H40

- **Prerequisite: Chorus: Intermediate Female or Chorus: Intermediate Male**
- **Grade level: 11-12**

This course is appropriate for advanced-level choral students and may be repeated. Admission is restricted to ensure 1) proper voice-part balance between male and female students and 2) personnel consistency between Fall and Spring terms. Students are admitted by **audition only** and required to register for both Fall and Spring sessions. Students who cannot take both Fall and Spring sessions are encouraged to register for the Intermediate Chorus ensembles. Members of this ensemble will also perform with the intermediate-level choruses. A course fee will be charged.

This course covers advanced levels of music literacy, vocal production, performance preparation, and public performance. The choir will perform repertoire of advanced-level difficulty from all stylistic periods (5-6 on a scale of 1 to 6) under the name “The Maryville Chorale” or “The Maryville Festival Chorus” when combined with the intermediate choruses.

THEATRE ARTS

Theatre Arts 1 (1 credit)

MJHS Code: FATH9 MHS Code: FADR1SS TN Code: G05H16

- **Grade level: 9-12**

This course is open to all students and focuses on the major aspects of theatre as practice. It emphasizes the basic principles of acting, theatre terminology, theatre design and stagecraft. This course will include monologues, acting scenes, design research, design practice and play reading. A fee will be charged.

Theatre Arts 1 Intermediate (MJHS) (1 credit)

MJHS Code: FATH1 TN Code: G05H16

- **Grade level: 9**

This course is open to all students and focuses on the major aspects of theatre as practice. It emphasizes the basic principles of acting, theatre terminology, theatre design and stagecraft. This course will include monologues, acting scenes, design research, design practice and play reading. A fee will be charged.

Theatre 2 Intermediate (1 credit)

MHS Code: FADR2SS TN Code: G05H17

- **Prerequisite: Theatre 1**
- **Grade level: 10-12**
- **1 [EPSO](#) available for [LDC](#) exam: Intro to Theatre Pellissippi State THEA 1030**

Students will perform and participate in a variety of theatre experiences to expand upon what was learned in Drama 1 with

emphasis on characterization, character development, roles in theatre, basic stagecraft and theatre design. Students in this course are expected to sit for the Pellissippi State Community College dual credit exam. Students will be responsible for the \$25 test fee. Students whose scores on the dual credit exam show mastery will receive credit for THEA 1030 at Pellissippi State Community College.

Theatre 2: Play Production

(1 credit)

MHS Code: FAPLYSS

TN Code: G05H17

- **Prerequisite: Theatre 1, Theatre 2 Intermediate (or concurrent enrollment)**
- **Admission is restricted to students who audition (acting) / apply (design) and are admitted.**
- **Grade level: 10-12**
- **1 [EPSO](#) available for [LDC](#) exam: Intro to Theatre Pellissippi State THEA 1030**

This course is open to students who have successfully completed Drama 1, Drama 2 Intermediate (or concurrently enrolled), and have been admitted after **audition** or design application. Students will participate in full-length productions which require evening/weekend performances for the school and community. Students will prepare an acting or design portfolio, including a theatrical resume. This course may be repeated for up to six credits. Evening and weekend rehearsals will be required. Students are expected to pay the cost of their costume rental and/or scripts. Students in this course are also expected to sit for the Pellissippi State Community College dual credit exam. Students will be responsible for the \$25 test fee. Students whose scores on the dual credit exam show mastery will receive credit for THEA 1030 at Pellissippi State Community College.

INSTRUMENTAL ARTS

Band (Instrumental Music-Band-MJHS)

(2, 1 credit or ½ credit)

MJHS Code: FABA9

TN Code: G05H36

MHS Code:

FABNDSS Band - Brass & Woodwinds yearlong A/B day schedule for 1 credit

FABPESS Band - Percussion yearlong A/B day schedule for 1 credit

FABNDSQ Band - 2nd Band class for students interested in taking band every day

FABGUSA Band - Field Guard (Fall only) - ½ credit (no prerequisite)

This elective course is offered on an A/B schedule for a year-long class. It requires playing at an intermediate or advanced level. Emphasis is placed on building a musical foundation that will help the student succeed in individual and group performance. Special attention is focused on the skills required for Sr. Clinic. Performance and scheduled rehearsals are required. A transportation/uniform fee is necessary to cover travel and uniform costs. After selecting the appropriate A/B class, students may elect to increase their participation by attending daily for one or both semesters. Appropriate credit will be available.

Orchestra (Instrumental Music-Orchestra-MJHS)

(2, 1 credit or additional ½ credit)

MJHS Code: FAOR9

TN Code: G05H36

MHS Code:

FAORCSS – Yearlong A/B day schedule for 1 credit

FAORCSB – 2nd orchestra class for students interested in taking orchestra every day one semester- ½ credit

This elective course for is being offered on an A/B schedule for a year-long class. It requires playing at an advanced level. Emphasis is placed on musical skills that advance the students individual and group performance. Special attention is focused on the skills required for Sr. Clinic. All performances and scheduled rehearsals are required. An annual fee is required to cover class materials. After selecting the appropriate A/B class, students may elect to increase their participation by attending daily for one or both semesters. Appropriate credit will be available.

MUSIC THEORY

Introduction to Music Theory

(1 credit)

MHS Code: FAMTHSS

TN Code: G05H44

- **Prerequisite: None**
- **Grade level: 10-12**

Introduction to Music Theory is a beginning-level course designed to introduce students to the fundamentals of Common Practice music notation, literacy, history, and organization. Students who successfully complete this course will have the foundational knowledge and skills necessary to succeed in AP Music Theory, including basic sight-singing and dictation, key signature recognition and understanding, intervallic qualities of triadic harmony, score organization, and the distinctives of the various stylistic periods of the Common Practice Era.

AP Music Theory (1 credit)
MHS Code: FAMUSPS TN Code: G05H26

- **Prerequisite: Teacher approval (Mr. Ford, Mr. Wilkinson, or Mr. Davis) is required before registering for this class.**
- **Grade level: 10-12**
- **1 [EPSO](#)**

AP Music Theory is an advanced level course designed to engage students in learning activities that will help them to achieve the outcomes assessed by the College Board's Advanced Placement Music Theory Examination. The AP Music Theory course is designed to develop a student's overall ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. These abilities will be developed through various listening, performance, written, creative and analytical exercises. Although this course focuses on music of the Common Practice Period (1600-1900), materials and processes found in other styles and genres are also studied. Students who choose to take AP course work are expected to take the AP exam and will be responsible for its cost. Students who successfully complete the AP Music Theory Examination and plan to major in music in college may be able either test out of theory or enroll in an advanced music theory course, depending upon the individual college's policy.

VISUAL ARTS

Art 1 (1 credit)
MJHS Code: FAVA1 MHS Code: FAAR1SS TN Code: G05H08

- **Grade Levels: 9-12**

This course is an introduction to basic art skills and techniques with direct emphasis on the elements and principles of design. Students will work with a variety of materials and will be introduced to art history through correlation of artists with assigned projects. This course will be offered both terms and is a prerequisite for all studio art courses. A materials fee will be charged.

World Crafts (1 credit)
MHS Code(s): TN Code: G05H09
FACFTSS – Semester Class (.5 credit)
FACFTSB - A/B Day (.5 credit)

- **Grade Levels: 10-12**

World Crafts is a project-based class in which we will apply the Principles of Design as we learn about crafting techniques and symbolism from crafts and artwork around the world. Traditional crafting techniques we will learn include paper crafting, fabric dying, calligraphy, stained glass, basket weaving, and metal tooling. A materials fee will be charged.

Clay/Ceramics (1 credit)
MHS Code: FACLYSS TN Code: G05H09

- **Prerequisite: Art 1**
- **Grade Levels: 10-12**

This course is a studio course that focuses on creating 3-dimensional projects using clay and may be repeated. Students will learn all phases of production, and various techniques such as coiling, slab method and modeling. Students will prepare and present a portfolio at the end of the course. For advanced students, the curriculum will be modified to

develop their skills and techniques. A materials fee will be charged.

Digital Photography

(1 credit)

MHS Code: FASAPSS

TN Code: G05H09

- **Prerequisite: Art 1**
- **Grades: 11-12**
- **1 [EPSO](#) available for [LDC](#): Intro to Photography Pellissippi State PHO1000**

The emphasis in the photography class will be primarily on photography techniques through studio experiences including printmaking and the use of technology including Photoshop. Students will present a final portfolio. Students will need to have unlimited access to a digital camera. A materials fee will be charged.

Drawing

(1 credit)

MHS Code: FADRWSS

TN Code: G05H09

- **Prerequisite: Art 1**
- **Grade Levels: 10-12**

This course is a studio course that focuses on the different drawing techniques and materials and may be repeated. It will explore figure drawing, portraits, still life, etc. while learning to use various drawing tools such as pencil, ink, charcoal, etc. Students will prepare and present a portfolio at the end of the course. For advanced students, the curriculum will be modified to develop their skills and techniques. A materials fee will be charged.

Painting

(1 credit)

MHS Code: FAPAISS

TN Code: G05H09

- **Prerequisite: Art 1**
- **Grade Levels: 10-12**

This course is a studio course that focuses on the different paint media, styles, and techniques and may be repeated. Students will work with watercolor, tempera, and acrylic paint. Students will prepare and present a portfolio at the end of the course. For advanced students, the curriculum will be modified to develop their skills and techniques. A materials fee will be charged.

AP Studio Art Drawing

(1 credit)

MHS Code: FASADAS

TN Code: G05H24

- **Prerequisite: Art 1 and 1 additional Art elective**
- **Grades: 11-12**
- **1 [EPSO](#)**

This course involves a high level of commitment and energy. Students are expected to work beyond scheduled class time. It is recommended that students have previous training in visual arts. This is not a course based on a written examination; instead, students are expected to submit portfolios for evaluation at the end of the school year to the College Board and the Advance Placement Program. (Deadline for submitting Studio Art portfolios to the AP Coordinator is in early May.)

AP Art History

(1 credit)

MHS Code: FAHISPS

TN Code: G05H25

- **Prerequisite: Art I and 1 additional Art elective**
- **Grades: 11-12**
- **1 [EPSO](#)**

An understanding of the elements of art, fundamental art historical terminology and technical processes used in the production of art is basic to both college and AP courses. No prior experience in art history is necessary for the course. Students who choose to take AP course work are expected to take the AP exam and will be responsible for its cost.

AP Studio Art 2-D

(1 credit)

MHS Code: FASA2AS

TN Code: G05H30

- **Prerequisite: Art I and 1 additional Art elective**

- **Grades: 11-12**
- **1 [EPSO](#)**

This course is intended for highly motivated students who are seriously interested in the study of art. AP course requirements are significantly more rigorous and students should demonstrate commitment and accomplishment while enrolled. It is recommended for the AP student to have previous training in art or be able to demonstrate through a portfolio an ability to create fine art. The course is designed as an intensive one-year program. The course is the infusion of new ideas and constructed around meaning and an enduring idea. Students who choose to take AP course work are expected to take the AP exam and will be responsible for its cost.

AP Studio Art 3-D

(1 credit)

MHS Code: FASA3AS TN Code: G05H29

- **Prerequisite: Art 1 and 1 additional Art elective**
- **Grades: 11-12**
- **1 [EPSO](#)**

This course is designed to allow students to create a collection of works that show an investigation of the three aspects of the AP Portfolio. Students will exhibit a mastery of concepts, techniques, and ideas used to develop their portfolio. The three sections of the portfolio are Concentration, Breadth and Quality. In the first week of the course, all three sections are described and discussed for clarification. Sketch assignments are given throughout each grading period that may be used as ideas for the breadth section of the portfolio. Students will begin to develop a theme for the concentration section by the end of the first grading period. Students are expected to submit their portfolio to College Board for AP course evaluation.

English

English 1 CP

(1 credit)

MJHS Code: LA930, LA940 TN Code: G01H09

- **Grade Level: 9**
- **NCAA Eligibility Qualifying Course**

This course provides a challenging curriculum for college-bound students functioning on or below grade level on reading and language skills, focuses on challenging students with nonfiction passages, literary genres, and enhanced writing expectations. Students will work to improve their analytical thinking and writing skills, understanding of the basic principles of grammar and usage, and vocabulary skills. Text analysis will center on examining the structure, purpose, and central ideas of a passage, and writing assignments will emphasize constructing various types of strong sentences and improving organization, content, and style in written work. Students will write argumentative, expository, and narrative essays with a focus on textual evidence; in addition, they will complete a variety of assignments integrating research.

English 1 Honors

(1 credit)

MJHS Code: LA920 TN Code: G01H09

- **Prerequisite: Teacher recommendation**
- **Grade Level: 9**
- **NCAA Eligibility Qualifying Course**

See Framework for Honors Courses.

This course provides a challenging, enriched curriculum for college-bound students functioning well above grade level on reading and language skills. Emphasis will be placed on the development of timed essay writing and research techniques in preparation for Advanced Placement Language. The course will focus on developing strong analytical thinking and writing skills. Topics covered will include literary terminology and approaches to literary criticism, including diction, tone, syntax, point of view, and archetypes. Classroom activities will include grammar development, Socratic seminars, and speeches, class presentations with technology components, timed writings, weekly vocabulary study, ACT practice, and major out-of-class writings, including research-based, expository, narrative, and persuasive responses. The Honors English student will complete the majority of reading and writing outside of class.

English 2 CP

(1 credit)

MHS Code: ENG10SS, ENG10CS

TN Code: G01H10

- **Prerequisite: English 1**
- **Co-requisite: Speech and Communication**
- **Grade Level: 10**
- **NCAA Eligibility Qualifying Course**

This course serves as an extension of English 1 and focuses on challenging students with nonfiction passages, world literature, and enhanced writing expectations. Students will work to improve their understanding of the basic principles of grammar and usage and to increase vocabulary skills. Text analysis will center on examining the structure, purpose, and central ideas of a passage, and writing assignments will emphasize constructing various types of strong sentences and improving organization, content, and style in written work. Students will write TNReady essays with a focus on textual evidence and complete one formal research paper. Students will also practice critical thinking skills and prepare for ACT and TN Ready testing. An expectation for English 2 College Preparatory is an English 1 College Preparatory credit.

English 2 Honors

(1 credit)

MHS Code: ENG10HS

TN Code: G01H10

- **Prerequisite: English 1**
- **Grade Level: 10**
- **NCAA Eligibility Qualifying Course**

This course provides a challenging, enriched curriculum for the college-bound student. Emphasis will be placed on the development of timed essay writing and research techniques in preparation for Advanced Placement (AP) Language. The course will focus on developing strong analytical thinking and writing skills and will address the learning indicators needed for College Readiness. Topics covered will include literary terminology and approaches to literary criticism, including diction, tone, syntax, point of view, archetypes, and allegory. Classroom activities include grammar development, Socratic seminars, speeches, class presentations with technology components, timed writings, weekly vocabulary units, ACT practice, and formal out-of-class writings, including research-based, expository, narrative, and persuasive responses. The Honors English student will complete the majority of reading and writing outside of class. An expectation for Honors English is the completion of two assigned summer reading novels.

English 2 H/AP Capstone Seminar (Yearlong—1 Honors and 1 AP credit)

MHS Code: ENG10HA

TN Code: G01H10 & G01H22

This course will combine English 2 H and Seminar into a yearlong course to maximize opportunities and to minimize duplication of assignments. (See AP Seminar full description on p. 26)

Journalism – Yearbook

(1 credit)

MJHS Code: SAY90

- **Grade Level: 9**

This course focuses on the design and development of the MJHS school yearbook and how it is created using page layouts, journalism, interviewing and proofreading skills, editing, and photography. Creativity, meeting deadlines, and writing skills are very important.

MHS Code: ENYRBSS, ENYEASS TN Code: G01H15

- **Application required (Students wishing to enroll in this class for the entire year must select ENYRBSS Journalism-Yearbook as a course request as well as ENYEASS Journalism-Yearbook.)**
- **Grade Level: 10-12**

This elective course is open to sophomores, juniors, and seniors. Journalism/Yearbook focuses on layout design, copy writing and fitting, photography, and editing a high school yearbook. All members of the class will be members of the Appalachian staff, and the class will serve as a laboratory for the writing and production of the yearbook. The course will highlight news, feature, and headline writing. Students will also be responsible for advertising, selling, and distributing the yearbook. Additionally, students will be required to sell 8-10 sponsors per semester.

English 3 CP

(1 credit)

MHS Code: ENG11SS, ENG11CS TN Code: G01H11

- Prerequisite: English 10SS, ENG10CS
- Grade Level: 11
- NCAA Eligibility Qualifying Course

This survey course on American literature focuses on learning basic principles of grammar and usage; increasing vocabulary skills; emphasizing organization, content, and style in written work; writing persuasive essays and literary analyses; recognizing various elements of literature and major movements in American Literature; developing reading skills through short stories, plays, novels, and informational texts; and constructing research in the library. One formal research paper will be required as well as numerous in-class essays and a formal speech. Students will also practice critical thinking skills and work on reading strategies to prepare for the ACT. An expectation for this course is for the student to have completed both English I and 2.

English 3 AP Language and Composition

(1 credit)

MHS Code: ENG11PS TN Code: G01H17

- Prerequisites: English 2 Honors
- Grade Level: 11
- NCAA Eligibility Qualifying Course
- 1 [EPSO](#)

This course challenges students who have established a record of achievement and self-discipline in the study of English. The assignments will focus on preparation for the AP Language and Composition Exam for College Credit, 12th grade AP English, and future college independence. Students will be expected to reinforce vocabulary through personal reading and in-class assignments; to develop topics using rhetoric, synthesis, argumentation, and research; and to express ideas clearly in oral reports and multiple timed AP-style essays. Through close reading and discussion, students will begin to develop a language of discourse for non-fiction writing. Numerous supplemental readings and documented papers will be required. An expectation for AP English is the completion of two summer reading novels/plays. A fee will be charged. Students who choose to take AP course work are expected to take the AP exam and will be responsible for its cost. **Student seeking to obtain an AP Capstone Diploma must subsequently enroll in AP Seminar.*

AP Capstone Seminar -

(1 credit)

MHS Code: SRSEMPS Code: G01H22

- Prerequisites: Subsequently or previously enrolled in English 2 Honors
- Grade Level: 10-11
- 1 [EPSO](#)

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

English 3 AP Language and Comp/AP Capstone Seminar (Yearlong—2 AP credits)

MHS Code: ENG11PA TN Code: G01H17 & G01H22

This course will combine AP Language and Seminar into a yearlong course to maximize opportunities and to minimize duplication of assignments.

English 4 CP

(1 credit)

MHS Code: ENG12SS, ENG12CS TN Code: G01H13

- Prerequisite: English 3
- Grade level : 12
- NCAA Eligibility Qualifying Course

This course emphasizes British and world literature. Written and oral assignments focus on creating precise and concise compositions that feature clearly expressed ideas and detailed organization through word choice, sentence variety, and transitional devices. Students will produce multimedia presentations and contribute to whole class discussions. Critical thinking centers on literary analysis and on connecting multiple texts to centralized themes. Students will work to strengthen note taking skills that will, in turn, strengthen listening, analyzing, and organizing abilities. Students are expected to take personal responsibility for their learning in this class by working independently, following directions, completing all assignments, and honoring deadlines. Students will complete in-class essays and several major out of class papers, including one that requires research. An expectation for College Preparatory English 4 is an English 3 College Preparatory credit.

English 4 AP Literature and Composition

(1 credit)

MHS Code: ENG12PS TN Code: G01H18

- **Prerequisite: AP Language**
- **Grade level : 12**
- **NCAA Eligibility Qualifying Course**
- **1 [EPSO](#)**

This course challenges students who have established a record of achievement and self-discipline in the study of English. The assignments will focus on AP Literature and Composition test preparation and college independence. The course pursues varied genres and writers from world literature with emphasis on British works. The student will be expected to identify major literary genres and literary periods, reinforce vocabulary through personal reading and in-class assignments, review modes of composition and how those best fit individual needs for communication, and express ideas clearly in oral reports, multiple timed AP-style in-class essays, and class discussions. Numerous supplemental readings and multiple documented out of class papers will be required, at least two of which include scholarly research. An expectation for AP English is the completion of 2-3 summer reading novels/plays. Students who choose to take AP course work are expected and highly encouraged to take the AP exam and will be responsible for its cost.

DE English Composition I 1010 (Senior Class with College Credit)

(1 credit)

MHS Code: ENCP1DS TN Code: G01H30

- **1 [EPSO](#)**

English Composition I 1010 is the study and practice of expository and persuasive writing. Topics include critical reading and writing essays, with emphasis on research, writing processes and effective formatting.

Mathematics

Calculator Requirements

Calculators are an important component of mathematics instruction, practice, assessment, and application at every level. Each mathematics class at the Algebra 1 level and above will use a graphing calculator for at least a portion of the class. Thus, each student is strongly encouraged to provide his/her own graphing calculator. While many such calculators are available and acceptable, the MJHS/MHS Mathematics Department uses Texas Instruments models TI-83 and TI-84 Plus Silver Edition and will base instruction on these models. Either is adequate. For certain topics in each class, use of graphing calculators will not be allowed. At such times, the teacher may furnish students an appropriate 4-function or scientific calculator (The TI-30 is often used by the department) to use during classroom instruction and testing.

Algebra 1

(1 credit)

MJHS Code: MA810, MAA20, MAA30

TN Code: G02H00

- **Grade Level: 8-9**
- **NCAA Eligibility Qualifying Course**
- **8th grade by Recommendation Only**

This course will challenge students to use problem situations, physical models, and appropriate technology to extend algebraic thinking and engage student reasoning. Problem-solving situations will provide all students an environment that promotes communication and fosters connections within mathematics to other disciplines and to the real world. The concepts emphasized in the course include functions, solving equations, and slope as rates of change, and

proportionality. In accordance with the TNReady Math Standards, Algebra students will understand computational results and operations involving real numbers in multiple representations; understand properties of and relationships between subsets and elements of the real number system; understand and apply algebraic properties in order to perform operations with; evaluate, simplify, and factor expressions and polynomials; solve linear equations, linear inequalities, linear systems, and quadratic equations; use the Pythagorean Theorem, distance formula, and midpoint formula; describe and interpret quantitative information; use statistical methods to draw conclusions and make predictions; and understand basic counting procedures and concepts of probability.

Geometry CP

(1 credit)

MJHS Code: MA810, MAA20, MAA30

MHS Code: MAGEOSS, MAGEOCS

TN Code: G02H11

- **Prerequisite: Algebra 1**
- **Grade level: 9-10**
- **NCAA Eligibility Qualifying Course**

Geometry emphasizes inductive and deductive reasoning to independently make and evaluate mathematical arguments and construct appropriate proofs of the fundamental theorems of Euclidean geometry. In accordance with the Tennessee Department of Education Curriculum standards, geometry also emphasizes parallel and perpendicular lines, triangle congruence, properties of triangles and quadrilaterals, similarity, right triangles, circles, transformations, surface area, and volume. Students will utilize multiple representations (verbal, iconic/pictorial, graphical, tabular, and symbolic) to solve problems, model mathematical ideas, and communicate solution strategies, and will use technologies appropriately to develop understanding of abstract mathematical ideas, to facilitate problem solving, and to produce accurate and reliable models.

Honors Geometry

(1 credit)

MJHS Code: MAG10

TN Code: G02H11

- **Grade Level: 9**
- **NCAA Eligibility Qualifying Course**

See Framework of Standards for Honors Courses.

Geometry emphasizes inductive and deductive reasoning to independently make and evaluate mathematical arguments and construct appropriate proofs of the fundamental theorems of Euclidean geometry. Students in this class move seamlessly between multiple representations (verbal, iconic/pictorial, graphical, tabular, and symbolic) to solve problems; model mathematical ideas; communicate solution strategies; use technologies appropriately to develop understanding of abstract mathematical ideas; facilitate problem-solving; and produce accurate and reliable models. Students will receive an introduction to non-Euclidean geometries. Two levels of Geometry instruction are offered. Placement is based upon prior student performance and standardized test results. **Geometry Honors moves at a faster pace than Geometry CP with extended assignments and deeper exploration that exceed the content standards, learning expectations, and performance indicators approved by the State Board of Education. In addition, Honors students will have an opportunity to participate in a state-wide math competition.**

Algebra 2 CP

(1 credit)

MHS Code: MAAL2CS TN Code: G02H05

- **Prerequisite: Algebra 1**
- **Grade level: 11**
- **NCAA Eligibility Qualifying Course**

Placement is based upon prior student performance and standardized test results. Algebra 2 extends and deepens those mathematical concepts and procedures emphasized in Algebra 1. Algebra 2 introduces and emphasizes to higher-order polynomials equations and functions, exponential equations and functions, complex numbers, and extends other algebra concepts. Students build upon previous knowledge of equations and inequalities to reason, solve, and represent equations and inequalities numerically and graphically.

Algebra 2A CP

(1 credit)

MHS Code: MAA2ASS TN Code: G02H06

- **Prerequisite: Geometry**
- **Grade Level: 10-11**
- **NCAA Eligibility Qualifying Course (.5 unit)**

Placement in this elective credit course is based upon prior student performance in Algebra 1 and standardized test results. Algebra 2 extends and deepens those mathematical concepts and procedures emphasized in Algebra 1 and introduces the mathematics student to higher-order polynomial, rational, and transcendental functions. In accordance with the Tennessee Department of Education Curriculum Standards, Algebra II emphasizes quadratic, polynomial, and rational expressions, equations, and functions. This course also introduces students to the complex number system. Students build upon previous knowledge of equations, inequalities, and systems of equations to reason, solve, and represent equations and inequalities numerically and graphically.

Algebra 2B CP

(1 credit)

MHS Code: MAA2BSS TN Code: G02H05

- **Prerequisite: Algebra 2A**
- **Grade Level: 11**
- **NCAA Eligibility Qualifying Course (.5 unit)**

Placement is based upon prior student performance in Algebra 2A and standardized test results. Algebra 2 extends and deepens those mathematical concepts and procedures emphasized in Algebra 1 and introduces the mathematics student to higher-order polynomial, rational, and transcendental functions. In accordance with the Tennessee Department of Education Curriculum Standards, Algebra II emphasizes quadratic, polynomial, rational, exponential, and logarithmic expressions, equations, and functions. This course also introduces students to the complex number system, sequences & series, basic trigonometric functions, and foundational statistics skills such as interpretation of data and making statistical inferences. Students build upon previous knowledge of functions equations and systems of equations to reason, solve, and represent equations numerically and graphically. This course satisfies the Algebra 2 requirement for graduation.

Algebra 2H

(1 credit)

MHS Code: MAAL2HS TN Code: G02H05

- **Prerequisite: Geometry H**
- **Grade Level: 10**
- **NCAA Eligibility Qualifying Course**

Placement is based upon prior student performance in Geometry H and standardized test results. Completion of a summer packet reviewing Algebra 1 is required. Algebra 2H extends and deepens those mathematical concepts and procedures emphasized in Algebra 1 and introduces the mathematics student to higher order polynomial, rational, and transcendental functions. In accordance with the Tennessee Department of Education Curriculum Standards, Algebra 2H students will understand the hierarchy of the complex number system and relationships among the elements, properties and operations; connect numeric, analytic, graphical and verbal representations of both real and complex numbers; analyze piecewise, step, and transcendental functions; solve problems using exponential functions requiring the use of logarithms; factor polynomials using the factor theorem, long and synthetic division, special factoring forms, and grouping.

Bridge Math/SAILS

(1 credit)

MHS Code: MASAIS TN Code: G02H41

- **Prerequisite: Geometry CP and Algebra 2 CP**
- **Grade level: 12 (students scoring below 19 math score on ACT)**

This class, designed as a culminating math course for seniors combining many of the concepts learned in Algebra and Geometry classes with a focus on topics covered on the ACT. Students enrolled in Bridge Math will have the opportunity to complete the SAILS (Seamless Alignment and Integrated Learning Support) program through Pellissippi State. The SAILS program is designed to allow students to work self-paced through the curriculum and receive credit for five competencies covered in remedial math courses at most colleges throughout the state of Tennessee.

Applied Mathematical Concepts CP

(1 credit)

MHS Code: MAAL3SS, MAAMCCS TN Code: G02H42

- **Prerequisite: Algebra 2 CP or Algebra 2B CP**
- **Grade Level: 12**
- **NCAA Eligibility Qualifying Course**
- **1 [EPSO](#) available for [LDC](#) exam: College Algebra Pellissippi State MATH 1130**

Placement is based upon prior student performance. This course includes the study of algebraic functions, exponential and logarithmic functions, circular functions, trigonometric functions, graphing common algebraic functions both with and without a calculator, sequences and series, conics, and an introduction to limits. Most of the class is dedicated to Algebra III topics, while the remainder covers trigonometry. Emphasis is on theory, application, and precise mathematical notation to prepare the student for calculus.

Pre-Calculus CP

(1 credit)

MHS Code: MAPRCSS TN Code: G02H74

- **Prerequisite: Honors Algebra 2 or Algebra 2B**
- **Grade Level: 11-12**
- **NCAA Eligibility Qualifying Course**
- **1 [EPSO](#) available for [SDC](#) exam: MATH 1730**

Placement is based upon prior student performance and teacher recommendation. This course includes the study of algebraic functions, exponential and logarithmic functions, circular functions, sequences and series, conics, and an introduction to limits. Roughly half the class is dedicated to Algebra III topics, while the other half covers trigonometry. Emphasis is on theory, application, and precise mathematical notation to prepare the student for calculus. Students will take the Tennessee Dual Credit Challenge Exam at the end of the course. Students who pass the DC exam will earn a college pre-calculus credit which may transfer to in-state, public universities.

Pre-Calculus Honors

(1 credit)

MHS code: MAPRCHS TN code: G02H74

- **Prerequisite: Honors Algebra 2 and teacher recommendation**
- **Grade Level: 11**
- **NCAA Eligibility Qualifying Course**
- **1 [EPSO](#) available for [SDC](#) exam: MATH 1730**

This course includes the study of algebraic functions, exponential and logarithmic functions, circular functions, sequences and series, conics, polar graphs, and an introduction to limits. Roughly half the class will concentrate on Algebra III topics, while the other half will cover trigonometry. Emphasis is on theory, application, and precise mathematical notation to prepare the student for calculus. Students will take the State Dual Credit Challenge Exam for College Pre-Calculus credit. This credit may transfer to select in-state public universities.

AP Calculus AB

(1 credit)

MHS Code: MACABPS TN code: G02H24

- **Prerequisite: Pre-Calculus H**
- **Grade Level: 12**
- **NCAA Eligibility Qualifying Course**
- **1 [EPSO](#)**

Placement based on previous performance and teacher recommendation. Advanced Placement Calculus AB is a one-term course that serves as an introduction to the theory, techniques, and applications of single variable calculus with emphasis on functions and their graphs; limits and continuity; and the differentiation and integration of algebraic, trigonometric, and transcendental functions. The course is specifically designed to follow the AP Calculus Course Description and to prepare students for the College Board's Advanced Placement Calculus (AB) examination; successful completion of this examination may result in college credit. Students who choose to take AP course work are expected to take the AP exam and will be responsible for its cost.

AP Calculus BC

(1 credit)

MHS Code: MABCCPS TN code: G02H25

- **Prerequisite: Calculus AB**
- **Grade Level: 12**
- **NCAA Eligibility Qualifying Course**
- **1 [EPSO](#)**

This course is intended for senior students wanting to pursue post-secondary programs in mathematics, science, or engineering or for advanced mathematics students wishing to fulfill college mathematics requirements through Advanced

Placement credit. AP Calculus BC is the second half of a two-term sequence of calculus that follows AP Calculus AB. This is a college level calculus course in the theory, techniques, and applications of single variable calculus with emphasis on functions, graphs, and limits, including analysis of planar curves given in parametric form, polar form, and vector form. Topics from Calculus AB such as differentiation and integration of algebraic functions, exponential and logarithmic functions, and trigonometric functions will be revisited and expanded on as well. Polynomial approximations and series will also be covered. This course will reinforce the requirements of AP Calculus AB and cover those additional topics required for AP Calculus BC. It is designed to satisfy all requirements of the AP Calculus Course Description and to prepare students for the College Board's Advanced Placement Calculus (BC) examination. Successful completion of which may result in college credit. Students who choose to take AP course work are expected to take the AP exam and will be responsible for its cost

AP Statistics

(1 credit)

MHS Code: MASTASS TN Code: G02H26

- **Prerequisite: Honors Algebra 2**
- **Grade level: 10-12**
- **NCAA Eligibility Qualifying Course**
- **1 [EPSO](#)**

This course is designed to actively involve students in the mathematical analysis of significant real-world problems and to demonstrate the power of mathematics as a problem-solving tool. Diverse areas of interest are addressed in fields such as engineering, sociology, environmental studies, law, manufacturing and quality control, and medicine. Mathematical techniques are reviewed or developed as necessary to solve problems in these areas. Major techniques of functional, probabilistic, and statistical analysis are emphasized. Students work extensively with computers and graphing calculators. Assessment will be based upon exhibitions of mastery, collaborative projects, and individual testing. This course is designed to prepare students for the College Board's Advanced Placement examination, successful completion of which may result in college credit. Students who choose to take AP course work are expected to take the AP exam and will be responsible for its cost.

DE Calculus

(1 credit)

MHS Code: MACA1DS TN Code: G02H51

- **Prerequisite: Pre-Calculus CP and Teacher Recommendation**
- **1 [EPSO](#)**

Topics include differentiation and integration of polynomial, rational, exponential, and logarithmic functions and methods of numerical integration. Topics from business modeling, such as economic applications and case studies, are explored with computer simulations, computer labs, or calculators. A graphing calculator is required. Requires ACT scores of 18 in English, 19 in Reading, and 22 in Math.

Students enrolled in this course will receive 4 college credit hours.

DE Elementary Probability and Statistics

(1 credit)

MHS Code: MAPRODS TN Code: G02H49

- **Prerequisite: Algebra 2 or Completion of SAILS math and Teacher Recommendation**
- **1 [EPSO](#)**

Topics include elementary probability theory, concepts of descriptive statistics, discrete and continuous distributions, hypothesis testing, confidence intervals, sample sizes, correlation, regression, multinomial and contingency tables. Non calculus-based computer applications will be investigated. Requires ACT scores of 18 in English, 19 in Reading, and 19 in Math. *Students enrolled in this course will receive 3 college credit hours.*

Science

Environmental Science CP

(1 credit)

MJHS Code: SCE30 TN Code: G03H33

- **Grade Level: 9**
- **NCAA Eligibility Qualifying Course (.5 unit)**

This course will survey the topics of laws of motion, energy, work, kinetic theory, atomic structure, the periodic table, and chemical reactions. The first half of the course will focus on introductory physics and the second half will focus on introductory chemistry. Emphasis will also be placed on developing laboratory skills, lab safety, and application of the Standard International system of measurement. A lab fee will be charged.

Physical Science CP

(1 credit)

MHS Code: SCPCSS, SCPSCCS TN Code: G03H00

- **Grade Level:10-11**
- **NCAA Eligibility Qualifying Course**

This course will survey the topics of laws of motion, energy, work, kinetic theory, atomic structure, the periodic table, and chemical reactions. The first half of the course will focus on introductory physics and the second half will focus on introductory chemistry. Emphasis will also be placed on developing laboratory skills, lab safety, and application of the Standard International system of measurement. A lab fee will be charged.

Biology I CP

(1 credit)

MJHS Code: SCB20 MHS Code: SCBI1CS TN Code: G03H03

- **Grade Level: 9-10**
- **NCAA Eligibility Qualifying Course**

This course will guide the study of the nature of sciences, diversity of life, ecology, cells and cell energy, biological evolution, and genetics. Laboratory investigations will be used to supplement the course. A lab fee will be charged.

Honors Biology

(1 credit)

MJHS Code: SCB10 TN Code: G03H03

- **Grade Level: 9**
- **NCAA Eligibility Qualifying Course**

See the Framework of Standards for Honors Courses.

This course will guide the study of the nature of sciences, diversity of life, ecology, cells and cell energy, biological evolution, and genetics. Laboratory investigations will be used to supplement the course.

Chemistry 1 CP

(1 credit)

MHS Code: SCCH1SS, SCCH1CS TN Code: G03H12

- **Prerequisite: Biology 1 and Algebra 1**
- **Grade Level: 10-12**
- **NCAA Eligibility Qualifying Course**

Chemistry 1 is the study of matter, its structure, properties, and changes it undergoes. Laboratory activities and demonstrations are used to enhance the principles learned in class and to encourage critical thinking skills. Course topics include measurement, atomic structure, periodic law, chemical formulas, chemical equations, stoichiometry, the gas laws, and acids and bases. A lab fee will be charged.

Chemistry 1 Honors

(1 credit)

MHS Code: SCCH1HS TN Code: G03H12

- **Prerequisite: Biology 1 and Algebra 1 (honors level recommended)**
- **Grade Level: 10-11**
- **NCAA Eligibility Qualifying Course**

Chemistry 1 Honors covers all of the topics of Chemistry 1 CP but in greater depth and at a faster pace. There is more emphasis on theory and technical writing, and students address more complex problems requiring a higher level of ability in solving algebraic equations. Chemistry I Honors requires a strong math background, especially in Algebra. It is highly recommended that students earned a B or higher in Honors Algebra. Additional topical projects will be assigned. A lab fee will be charged.

Natural Science/ Biology 2

(1 credit)

MHS Code: SCBI2CS TN Code: G03H09

- **Prerequisite: Biology 1**
- **Grade Level: 11-12**
- **NCAA Eligibility Qualifying Course**

Biology II is a laboratory science which extends and broadens biological principles introduced in Biology I. The skills and content knowledge emphasized in the new Biology II standards are intended to provide an appreciation of the variety of life forms that have previously existed and currently exist on Earth. Topics such as taxonomy, evolutionary relationship, structure, and function will be emphasized through the study of plants (botany) and animals (zoology). Students will learn the classification and identification of plants and animals, as well as discover the interrelationships and adaptations formed between living things and their environment. This class utilizes lectures, laboratory activities, dissections, projects, and field walks to emphasize the primary scientific concepts. A lab fee will be charged.

Physics 1 CP**(1 credit)****MHS Code: SCPHYSS TN Code: G03H20**

- **Prerequisites: Algebra 2 68(ADDENDUM 2)**
- **Grade Level: 10-12**
- **NCAA Eligibility Qualifying Course**

This class is a terminal survey course of the fundamental principles, theories, and techniques of classical and modern physics. Content may include, but is not limited to Newtonian kinematics and dynamics (i.e., motion and its causes, including extensive vector analysis), theorems of work and energy, conservation laws, and electricity and magnetism. Analytical thinking is heavily emphasized, and proficiency is gained through problem solving. A lab fee will be charged.

Human Anatomy and Physiology**(1 credit)****MHS Code: SCAPCS TN Code: G03H31**

- **Prerequisite: Biology 1 and Chemistry 1**
- **Grade Level: 10-12**
- **NCAA Eligibility Qualifying Course**

The class will involve a study of the various systems in the human body and will progress towards an understanding of how those systems are integrated to create a whole functioning organism. A rigorous emphasis will be placed on understanding everyday challenges the human body faces. Students will complete dissection labs. A fee will be charged.

Crime Scene Investigations**(1 credit)****MHS Code: SCCCSS TN Code: G03H35**

- **Prerequisite: Biology 1 and Chemistry 1**
- **Grade Level: 11-12**
- **NCAA Eligibility Qualifying Course**

This course is designed for students interested in studying crime scene analysis. The class is designed around practical performance assessments with students working in teams to apply scientific knowledge and reasoning. Students will apply concepts learned in biology and chemistry to the forensic sciences, using critical thinking skills. The course has a strong emphasis on group laboratory work, inquiry, and problem solving. In addition, students must incorporate the use of technology, communication skills, language arts, art, and mathematics. A lab fee will be charged. Open to 11th and 12th grade only by teacher recommendation.

AP Biology**(1 credit)****MHS Code: SCBIAPS TN Code: G03H10**

- **Prerequisite: Biology 1 and Chemistry 1 (honors level recommended)**
- **Grade Level: 11-12**
- **NCAA Eligibility Qualifying Course**
- **1 [EPSO](#)**

The AP Biology curriculum is designed to prepare students to take the College Board AP Biology test given in May of each year and for higher-level work in college biology. AP Biology follows the syllabus of the College Entrance Examination Board's Advanced Placement Program, including the areas of molecular and cellular biology, genetics and

evolution, and organismal and population biology. Students will be required to attend additional classroom or laboratory sessions beyond the usual block schedule, which may be in the evenings or before school. Students who choose to take AP course work are expected to take the AP exam and will be responsible for its cost. A lab fee will be charged.

Chemistry 2 Honors & AP Chemistry

(2 credits)

MHS Code: SCCH2HS & SCCHAPS

TN Code: G03H15 & G03H16

- **Prerequisite: Chemistry 1 and Algebra 2 (honors level recommended)**
- **Summer assignment required**
- **Grade Level: 11-12**
- **NCAA Eligibility Qualifying Course**
- **1 [EPSO](#)**

The Chemistry 2 Honors/AP Chemistry course is a year-long course designed to be the equivalent of the general chemistry course usually taken during the first college year. Students should attain depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. Development of the students' abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic is expected. There is an emphasis on chemical calculations and the mathematical formulation of principles. Differences from Chemistry 1 are found in the number of topics treated, the time spent out of the classroom on the course by students, and the nature and the variety of experiments done in the laboratory. Topics include: Atomic Development, Chemical Reactions and Solution Stoichiometry, Thermodynamics, Bonding Theories, Kinetics, Equilibrium, States of Matter, Electrochemistry, Acid/Base Systems, Organic Chemistry, and Nuclear Chemistry. Students who choose to take AP course work are expected to take the AP exam and will be responsible for its cost. A lab fee will be charged.

AP Environmental Science (APES)

(1 credit)

MHS Code: SCESCAS

TN Code: G03H25

- **Prerequisite: Biology 1 and Chemistry 1 (honors level recommended)**
- **Grade Level: 10-12**
- **NCAA Eligibility Qualifying Course**
- **1 [EPSO](#)**

The APES curriculum is a rigorous college level course designed for students wishing to acquire a more in-depth understanding, awareness, and appreciation for the inter-relationships between humans and their environment. APES is a comprehensive subject that draws on concepts from the natural, social, and physical sciences. Topics of study include energy conservation, the interdependence of natural systems, human impact on natural systems, human survival and sustainability, as well as environmental laws and policies. Laboratory and field-based exercises will be an important component of this course, including a day-long field trip. Students who choose to take AP course work are expected to take the AP exam and will be responsible for its cost. A lab fee will be charged.

AP Physics 1

(1 credit)

MHS Code: SCPHYPS

TN Code: G03H27

- **Prerequisites: Chemistry 1 and Algebra 2 (honors level recommended)**
- **Requires summer assignment**
- **Grade: 11-12**
- **NCAA Eligibility Qualifying Course**
- **1 [EPSO](#)**

AP Physics 1 is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. This course is intended for those students seriously considering college majors in science, engineering, or mathematics. Students who choose to take AP course work are expected to take the AP exam and will be responsible for its cost. A lab fee will be charged.

AP Physics 2

(1 credit)

MHS Code: SCPH2PS

TN Code: G03H28

- **Prerequisite: AP Physics 1**
- **Grade Level: 11-12**
- **NCAA Eligibility Qualifying Course**

- **1 [EPSO](#)**

AP Physics 2 is an algebra-based, introductory college-level physics course that explores topics such as thermodynamics and the kinetic theory, light, electricity and magnetism, atomic structure and nuclear reactions. Analytical thinking is heavily emphasized, and proficiency is gained through extensive problem solving. Students who choose to take AP course work are expected to take the AP exam and will be responsible for its cost. A lab fee will be charged.

World Language

Spanish 1 CP

(1 credit)

MJHS Code: FLSPO (8th grade), FLS10 (9th grade)

MHS Code: FLSP1SS

TN Code: G24H04

- **8th grade by recommendation only**
- **Grade Level: 9-12**
- **NCAA Eligibility Qualifying Course**

This course will teach students the basic skills of listening, speaking, reading, and writing in Spanish with a focus on interpretive, interpersonal, and presentational modes of communication. The purpose of learning these skills is to build language proficiency and cultural understanding for the 21st century. This course is recommended for first time language students placed in CP or Honors English or students who have successfully completed another language. Spanish 1 is the first step toward the understanding of grammar, culture, and structure of the language.

Spanish 2 CP

(1 credit)

MJHS Code: FLS20 MHS Code: FLSP2SS, FLSP2CS TN Code: G24H05

- **Prerequisite: Spanish 1**
- **Grade Level: 9-12**
- **NCAA Eligibility Qualifying Course**

Students will continue learning to communicate in Spanish through listening, speaking, reading, and writing with a focus on interpretive, interpersonal, and presentational modes of communication. The purpose of learning these skills is to build language proficiency and cultural understanding for the 21st century. Spanish 2 builds on the basic understanding of grammar, vocabulary, and structure of the language learned the previous year and prepares students for upper level Spanish courses.

Spanish 3 Honors

(1 credit)

MHS Code: FLSP3HS TN Code: G24H06

- **Prerequisite: Spanish 2**
- **Grade Level: 10-12**
- **NCAA Eligibility Qualifying Course**

This course assumes that students have mastered the Maryville City Schools performance objectives presented in Spanish 2. This course is intended to engage students in communication with spoken and written Spanish language with a focus on interpretive, interpersonal, and presentational modes of communication. Through the continued study of thematic vocabulary, more advanced grammatical structures, and global awareness of different cultural perspectives, students will be able to build language proficiency and cultural understanding for the 21st century.

Spanish 4 Honors

(1 credit)

MHS Code: FLSP4HS TN Code: G24H07

- **Prerequisite: Spanish 3 Honors**
- **Grade Level: 10-12**
- **NCAA Eligibility Qualifying Course**

This is a rigorous course, taught primarily in Spanish, that focuses on the integration of authentic sources in order to provide students with opportunities to develop language proficiency across all three modes of communication (interpretive, interpersonal, and presentational). Through the study of advanced vocabulary and grammatical structures, as well as global awareness of different cultural perspectives, students will be able to build language proficiency and cultural understanding for the 21st century.

AP Spanish Language and Culture

(1 credit)

MHS Code: FLSPAPS TN Code: G24H08

- **Prerequisite: Spanish 4 Honors - It is recommended that Spanish 4 Honors students pass with an 80% or better in order to be successful in AP Spanish.**
- **Grade Level: 11-12**
- **NCAA Eligibility Qualifying Course**
- **1 [EPSO](#)**

This course, exclusively taught in Spanish, follows the Advanced Placement Curriculum and is the equivalent of a third year college course in advanced Spanish. Emphasis is placed on continued development of communicative proficiency across all three modes of communication (interpretive, interpersonal, and presentational) as well as the National Standards for World Language Learning (communication, cultures, connections, comparisons, and communities). The curriculum is divided into thematic units. While grammar is reviewed, it is not the primary focus of this course. Students who choose to take AP course work are expected to take the AP exam and are responsible for its cost.

AP Spanish Literature

(1 credit)

MHS Code: FLSP2PS TN Code: G24H09

- **Prerequisite: AP Spanish Language and Culture**
- **Grade Level: 11-12**
- **NCAA Eligibility Qualifying Course**
- **1 [EPSO](#)**

The AP Spanish Literature and Culture course, exclusively taught in Spanish, follows the Advanced Placement Curriculum and is the equivalent of a third year Spanish college course in advanced Spanish. 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 develop proficiencies across the full range of communication modes (interpersonal, presentational, and interpretive), thereby developing 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, literary criticism). Students who choose to take AP course work are expected to take the AP exam and are responsible for its cost.

Latin 1

(1 credit)

MJHS Code: 8th FLLT0, 9th FLL10

MHS Code: FLLT1SS

TN Code: G24H13

- **8th grade by recommendation only**
- **Grade Level: 9-12**
- **NCAA Eligibility Qualifying Course**

Latin 1 stresses basic grammar, vocabulary, and reading in the language. Roman and Greek mythology, Roman cultural life, and history are introduced. Emphasis is placed on the study of English derivatives and common Latin phrases, mottoes, and abbreviations. A fee is charged and students are required to keep a notebook for the class.

Latin 2

(1 credit)

MJHS Code: FLL20

MHS Code: FLLT2SS

TN Code: G24H14

- **Prerequisite: Latin 1**
- **Grade Level: 9-12**
- **NCAA Eligibility Qualifying Course**

Latin 2 involves the continuing study of grammar and vocabulary. More complex grammatical constructions are introduced, and emphasis is again placed on English derivatives. Students gain knowledge of ancient Roman daily life and history through textbook readings and articles and through various other media. A fee is charged and students are required to keep a notebook for the class.

Latin 3 Honors

(1 credit)

MHS Code: FLLT3HS

TN Code: G24H15

- **Prerequisite: Latin 2**

- **Grade Level: 10-12**
- **NCAA Eligibility Qualifying Course**

Latin 3 Honors completes the study of Latin grammar. Within the readings and through various projects, students gain greater knowledge of ancient Roman culture and daily life and Roman history. Additional aspects of Roman history and culture are presented through various other media. A fee is charged and students are required to keep a notebook for the class.

Latin 4 Honors

(1 credit)

MHS Code: FLLT4HS TN Code: G24H16

- **Prerequisite: Latin 3 Honors**
- **Grade Level: 10-12**
- **NCAA Eligibility Qualifying Course**

Latin 4 Advanced Honors offers the exceptional Latin student the opportunity to translate authentic Latin literature. The works will include, but are not limited to, Julius Caesar's De Bello Gallico (Gallic Wars) and Vergil's Aeneid. Aspects of Roman culture, history, and daily life are presented in the readings and through various other media and projects. A fee is charged.

AP Latin

(1 credit)

MHS Code: FLLATPS TN Code: G24H17

- **Prerequisite: Latin 4 Honors - It is recommended that Latin 4 Honors students pass with an 80% or better in order to be successful in AP Latin.**
- **Grade Level: 11-12**
- **NCAA Eligibility Qualifying Course**
- **1 [EPSO](#)**

In this course students will follow the Advanced Placement Curriculum as outlined by the College Board as preparation for taking the AP Latin Language Exam. Emphasis will be placed on analysis of literature and test-taking skills. Students who choose to take AP course work are expected to take the AP exam and are responsible for its cost. A fee will be charged.

French 1

(1 credit)

MJHS Code: 8th FLFR0; 9th FLF10 MHS Code: FLFR1SS TN Code: G24H21

- **8th grade by recommendation only**
- **Grade Level: 9-12**
- **NCAA Eligibility Qualifying Course**

This course will teach students the basic skills of listening, speaking, reading, and writing in French with a focus on interpretive, interpersonal, and presentational modes of communication. The purpose of learning these skills is to build language proficiency and cultural understanding for the 21st century. This course is recommended for first time language students placed in CP or Honors English or students who have successfully completed another language. French 1 is the first step toward the understanding of grammar, culture, and structure of the language.

French 2

(1 credit)

MJHS Code: FLF20 MHS Code: FLFR2SS TN Code: G24H22

- **Prerequisite: French 1**
- **Grade Level: 9-12**
- **NCAA Eligibility Qualifying Course**

This course assumes that students have mastered the Maryville City Schools performance objectives presented in French 1. Students will continue learning to communicate in French through listening, speaking, reading, and writing with a focus on interpretive, interpersonal, and presentational modes of communication. The purpose of learning these skills is to build language proficiency and cultural understanding for the 21st century. French 2 builds on the basic understanding of grammar, vocabulary, and structure of the language learned the previous year and prepares students for upper level French courses.

French 3 Honors

(1 credit)

MHS Code: FLFR3HS TN Code: G24H23

- **Prerequisite: French 2**
- **Grade Level: 10-12**
- **NCAA Eligibility Qualifying Course**

This course assumes that students have mastered the Maryville City Schools performance objectives presented in French 2. This course is intended to engage students in communication with spoken and written French language with a focus on interpretive, interpersonal, and presentational modes of communication. Through the continued study of thematic vocabulary, more advanced grammatical structures, and global awareness of different cultural perspectives, students will be able to build language proficiency and cultural understanding for the 21st century.

French 4 Honors

(1 credit)

MHS Code: FLFR4HS TN Code: G24H24

- **Prerequisite: French 3 Honors**
- **Grade Level: 10-12**
- **NCAA Eligibility Qualifying Course**

This course assumes that students have mastered the Maryville City Schools performance objectives presented in French 3. This is a rigorous course, taught primarily in French, that focuses on the integration of authentic sources in order to provide students with opportunities to develop language proficiency across all three modes of communication (interpretive, interpersonal, and presentational). Through the study of advanced vocabulary and grammatical structures, as well as global awareness of different cultural perspectives, students will be able to build language proficiency and cultural understanding for the 21st century.

AP French

(1 credit)

MHS Code: FLFREPS TN Code: G24H25

- **Prerequisite: French 4 Honors - It is recommended that French 4 Honors students pass with an 80% or better in order to be successful in AP French.**
- **Grade Level: 11-12**
- **NCAA Eligibility Qualifying Course**
- **1 [EPSO](#)**

This course, exclusively taught in French, follows the Advanced Placement Curriculum and is the equivalent of a third-year college course in advanced French. Emphasis is placed on continued development of communicative proficiency across all three modes of communication (interpretive, interpersonal, and presentational) as well as the National Standards for Foreign Language Learning (communication, cultures, connections, comparisons, and communities). The curriculum is divided into thematic units. While grammar is reviewed, it is not the primary focus of this course. At the conclusion, students are expected to take the AP exam and are responsible for its cost.

World Language Teaching Ambassadors

(1 credit)

MHS Code: FLTAMSS TN Code: **22103**

- **Prerequisite: Completion of 2 years of a modern language (Spanish or French)**
- **Grade Level: 10-12 (must be able to provide own transportation)**

This course is an innovative class whereby high school students will introduce elementary students to language and culture (French or Spanish) by using the skills of listening, speaking, reading, and writing. High school students will spend the first nine weeks learning developmental characteristics of the younger students and exploring teaching methods and materials. The second nine weeks will be devoted to a modern language experience at a local school or preschool where they will plan with a coordinating teacher to share the world language with younger students. A fee is charged

Social Studies

Ancient World History -

(1 credit)

MHS Code: SSANHSS TN Code: G04H04

- **Grade Level: 10-12**
- **NCAA Eligibility Qualifying Course**

This course is a comprehensive development of civilizations of the ancient Middle East through the middle ages. The focus concepts will include, but will not be limited to, the study of the Middle East as the cradle of western civilization, the civilization of Greece and Rome and their influences on government, law, science, and philosophy, the rise of church influence on social, religious, and political leadership, and emergence of the nation states from feudalism. A fee will be charged.

World History and Geography- (1 credit)

MJHS Code: SSG92, SSG93 MHS Code: SSWHISS TN Code: G04H10

- **Grade Level: 9**
- **NCAA Eligibility Qualifying Course**

Modern World History will complete the progression of civilization from the Renaissance and Reformation through the commercial and scientific revolutions and enlightenment. Problems and trends in European social and political development as accentuated by the revolutionary movements of the 18th, 19th, and 20th centuries and how the social, economic, and political turmoil has characterized the world in the 20th century will complete this course tablet. A fee will be charged.

World History - (1 credit)

MHS Code: SSWHISS, SSWHICS TN Code: G04H10

- **Grade Level: 10-12**
- **NCAA Eligibility Qualifying Course**

Survey of World History will cover historical topics from the year 1450 until 2000. The course will focus on a variety of historical topics from Europe, Africa, and Asia. Students will utilize primary and secondary sources to develop a broad historical context relating to history. In addition, students will use sources, primary and secondary, to help address larger historical themes and events. The class will help students develop the reasoning and analytical skills needed to comprehend difficult historical topics resulting in application skills that project well to a variety of subjects. Topics for this course include but are not limited to: Reformation, Scientific Revolution, early modern Japan & Islamic Empires, the Ottoman Empire and Turkish independence, Communist China, and the Arab-Israeli conflict.

AP Psychology - (1 credit)

MHS Code: SPSYPS TN Code: G04H15

- **Prerequisite: Completion of English courses at a level of Honors or AP**
- **Grade Level: 10-12**
- **NCAA Eligibility Qualifying Course**
- **1 [EPSO](#)**

The purpose of the Advanced Placement course in Psychology is to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with the major subfields within psychology. They also learn about the methods psychologists use in their science and practice. A fee will be charged.

Contemporary Issues and Public Policy - (.5 credits)

MHS Code: SSCOISB TN Code: G04H17

- **Grade Level: 10-12**

This course examines contemporary issues emphasizing those of a multicultural nature in the United States. This course also examines the processes of policy agenda formation, the enactment of public policies by Congress and the president, and the implementation and interpretation of policies by the bureaucracy and the courts. This course is conducted in a democratic spirit, allowing all sides of the issue to be aired and helping students to construct depersonalized, educated, and informed arguments on confusing, controversial, and sensitive issues. The purpose of this course is to begin to equip students with the cognitive, emotional, and interpersonal skills for living efficaciously in an increasingly diverse American society. A fee will be charged for this course.

AP European History - (1 credit)

MHS Code: SSEURAS TN Code: G04H22

- **Prerequisite: Completion of English courses at a level of Honors or AP**

- **Grade Level: 10-12**
- **NCAA Eligibility Qualifying Course**
- **1 [EPSO](#)**

The study of European history since 1450 introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. Without this knowledge, we would lack the context for understanding the development of contemporary institutions, the role of continuity and change in present-day society and politics, and the evolution of current forms of artistic expression and intellectual discourse. Students who choose to take AP course work are expected to take the AP exam and will be responsible for its cost.

AP Human Geography - (1 credit)

MJHS Code: SSHG0 MHS Code: SSHGOPS TN Code: G04H30

- **Grade Level: 9-12**
- **NCAA Eligibility Qualifying Course**
- **1 [EPSO](#)**

AP Human Geography is the study of human understanding, use, and alteration of the earth's surface through analysis of patterns and processes. Students will learn the impact humans have not only on the Earth, but also on each other. Emphasis is placed upon human social organization and the methods/tools geographers use. The course will be divided into seven units covering geographic tools, population, culture, political organization of space, rural land use, industrialization and economics, and cities and urban land use. Students who choose to take AP course work are expected to take the AP exam and will be responsible for its cost. A fee will be charged.

U.S. History CP - (1 credit)

MHS Code: SSUSHSS TN Code: G04H11

- **Grade Level: 11**
- **NCAA Eligibility Qualifying Course**

This is a general survey course in United States history from the post-Reconstruction era of 1877 to the present. (A review of American history from the Colonial Period through Reconstruction will precede the course emphasis. This content was covered by state requirement in the Middle School curriculum.) In the domestic area, emphasis is placed on the development of industry, rise of labor, social change, and the struggle for political and economic opportunity for all Americans. In the area of foreign policy, the concentration is on the problems the U.S. has faced during periods of isolation and world involvement. Current issues are related to the lessons of history. Lecture, oral presentations, and audio-visual materials supplement the basic text. This course is open to students in grade 11.

U.S. History Honors - (1 credit)

MHS Code: SSUSHHA TN Code: G04HB3

- **Grade Level: 11**
- **NCAA Eligibility Qualifying Course**
- **1 [EPSO](#) available for [SDC](#) exam: American History II HIST 2020**

This is a general survey course in United States history from the post-Reconstruction era of 1877 to the present. (A review of American history from the Colonial Period through Reconstruction will precede the course emphasis. This content was covered by state requirement in the Middle School curriculum.) In the domestic area, emphasis is placed on the development of industry, rise of labor, social change, and the struggle for political and economic opportunity for all Americans. In the area of foreign policy, the concentration is on the problems the U.S. has faced during periods of isolation and world involvement. Current issues are related to the lessons of history. Lecture, oral presentations, and audio-visual materials supplement the basic text. This course is open to students in grade 11. Strong reading skills are needed in this course. A fee will be charged.

AP U.S. History - (1 credit)

MHS Code: SSUSHPS TN Code: G04H21

- **Grade Level: 11**
- **NCAA Eligibility Qualifying Course**
- **1 [EPSO](#)**

The Advanced Placement Program in United States History is designed to provide students with analytical skills and factual knowledge necessary to deal critically with the problems and materials in U.S. History. Students should learn to assess historical materials - their relevance to a given interpretive problem, reliability, and importance - and to weigh the evidence and interpretations presented. This course emphasizes development of the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format. A prerequisite for AP US History is the completion of summer reading. Students who choose to take AP course work are expected to take the AP exam and will be responsible for its cost. This course is open to students in grade 11 who strong reading skills and work ethic. A fee will be charged.

Economics - (.5 credit)

MHS Code: SSECOSB, SSECOSQ TN Code: G04H13

- **Grade Level: 12**
- **NCAA Eligibility Qualifying Course**

This course is designed to aid students in developing knowledge, comprehension, and appreciation of the free enterprise system and personal finance skills. Subjects will include micro- and macro-economic themes, personal finance and consumer economics, and economic globalization. Students will be expected to be conversant with economics as treated in the newspapers, current periodicals, graphs, charts, and other media. This course is open to students in grade 12. A fee will be charged. Students can earn a graduation required credit in Finance during this course.

AP Economics - (1credit)

MHS Code: SSECOPS TN Code: G04H25

- **Grade Level: 12**
- **NCAA Eligibility Qualifying Course**
- **1 [EPSO](#)**

The purpose of an AP course in Macroeconomics is to give a thorough understanding of the principles of economics that apply to an economic system as a whole. Such a course places particular emphasis on the study of a national income and price determination, and also develops student familiarity with economic performance measures, economic growth, and international economics. This course is open to students in grades 11 and 12. A fee will be charged. Students who choose to take AP course work are expected to take the AP exam and will be responsible for its cost.

Personal Finance - (.5 credit)

MHS Code: SSFINSQ TN Code: G04H36

- **Grade Level: 12**

Personal Finance is a course designed to inform students how individual choices directly influence occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing. This course is taught through via an online format within AP Economics, Economics CP, or Marketing courses. Course preparation and module completion is expected to be completed outside the normal school day. Exams for this course are administered by teachers in the aforementioned courses. Additionally teachers in these classes provide instructional materials, access to the online site, and assistance to students regarding material contained within the online Personal Finance course.

Government - (.5 credit)

MHS Code: SSGOVSB, SSGOVSQ TN Code: G04H12

- **Grade Level: 12**
- **NCAA Eligibility Qualifying Course**

This course includes a study of United States government on the local, state, and federal levels. Emphasis is placed on the functions and duties of the three branches of government. Current events topics are discussed as they relate to the study of government. This course is open to students in grade 12. A fee will be charged.

AP Government - (1 credit)

MHS Code: SSGOVPS TN Code: G04H26

- **Grade Level: 12**
- **NCAA Eligibility Qualifying Course**

- 1 [EPSO](#)

This course surveys the structure and function of American government and politics that begins with an analysis of the U.S. Constitution, the foundation of the American political system. Students study the three branches of government, agencies that support each branch, the role of political behavior in the democratic process, rules governing elections, political culture, and the workings of political parties and interest groups. Students who choose to take AP course work are expected to take the AP exam and will be responsible for its cost. This course is open to students in grades 11 and 12. A fee will be charged.

College & Career Readiness Program

Speech and Communication - (1 credit)

MHS Code: ENSPCCS, SNSPCSS **TN Code: G01H71**

- **Co-requisite: English 2 CP**
- **Grade Level: 10**
- 1 [EPSO](#) available for [SDC](#) exam: **COMM 2025**

Speech and Communication is taught at the high-school level by high-school teachers, and students have the potential to earn college credit through a state exam. Course learning objectives are developed by Tennessee high school and college faculty in order to ensure alignment with post-secondary standards. Topics covered are elements of communication, i.e. Group, Intercultural, Interpersonal, and Nonverbal as well as the Nature and Value of Language, Persuasion, Public Speaking, and The Value of Listening. There will be an emphasis on literacy skills. The students will take the State Dual Credit Challenge Exam for Fundamentals of Speech and Communication. This credit may transfer to select in-state public universities.

ACT Readiness Preparation - (.5 credit)

MHS Code: SRACTSB **TN Code: G25H00**

- **Grade Level: 11**

ACT Readiness Preparation is designed to assist students in (a) understanding what the ACT is, why it is important for their postsecondary readiness, and how to interpret their progress/results; (b) understanding how academic skills connect to career pathways and postsecondary opportunities; (c) preparing for the ACT exam through instruction, practice, and familiarity with the structure and format of the ACT exam; and (d) identifying and using best practices for maximizing one's score (e.g. "test tips", strategies for dealing with test anxiety, benefits of retaking the exam). The course is designed for 11th grade students taking the required spring administration of the ACT. Sophomore students with honors and AP coursework and seniors will be admitted on a space available basis.

College Success 1500 - (1 credit)

MHS Code: SRCSUCS **TN Code: G25H02**

- **Grade Level: 12**

This course is designed for Tennessee Promise students who may not meet all the benchmarks for college readiness. It is designed to empower students to reach their educational, career and life goals. This class introduces students to a wide range of strategies, techniques and self-management tools commonly recognized to lead to success.

Key competencies for this class include Academic Planning; Setting Goals; Managing Time; Career Planning; Memory Strategies; Active Listening; Note-taking; Active Reading and Comprehension; Preparing for Tests; Critical Thinking and Problem Solving; Effective Communication Skills; both written and oral; Conducting Electronic Research, Developing Effective Presentations; Group Dynamics; Teamwork; Transition to Work; Career Exploration; Service Learning.

Students will receive college credit from Pellissippi for passing this course. The tuition will be paid by the Tennessee Dual Enrollment Grant. In order to receive the grant for this course, students must have a minimum 2.0 unweighted GPA and a minimum of 13 on each section of the ACT or PLAN.

Senior Transition (1 credit)

MHS Code: SRSTRNS **TN Code: G25H02**

- **Grade Level: 12**

This course is designed to address the needs and interests of all seniors as they prepare for the next steps after graduation. The course emphasizes the college application process, self-assessment and self-direction, career exploration, current issues, team building, independent living, and service learning. Students will explore areas of interest and have exposure to speakers and readings on various issues. Course topics will include interviewing skills, career exploration, problem-solving and decision-making, stress and time management, and topics of current interest. Emphasis will be on the college essay and requirements of the college admissions and scholarship process. The course offers students the opportunity to know themselves, to become educated college consumers, and to learn about various issues of college life. **Students who take this course must have access to transportation.** There is a \$7 fee for this course.

Internship/Independent Project/Service Learning - (1 credit)
MHS Code: SRJRIIP TN Code: C15H13

- **Prerequisites: AP or Honors English and application**
- **Grade Level: 11-12**

Internship/Independent Project enables students to explore a career field of interest through an internship experience or research a topic of personal interest in any area: arts, sciences or technology. A primary purpose of this course is to foster intellectual curiosity, independence, and responsibility, and a major focus will be on university-level research skills and sources. Major requirements of this course are a research-based portfolio and a public presentation and forty hours of work based experience. To be eligible for enrollment in this course, academic standing, attendance records, and discipline records will be considered. Juniors who choose this course will have the opportunity to use their internship experience and/or research as a part of the college and scholarship application process. Juniors can choose to add depth to their study by continuing their internship or research during their senior year. There is a fee for this course. This course fulfills the intent and purpose of the state recommended capstone experience.

Advanced Placement Capstone Diploma Program

AP Capstone is a program that allows students to develop the skills that matter most for their future college success: research, collaboration, and communication. The program includes a two-course sequence: AP Seminar and AP Research. AP Capstone complements the in-depth, subject-specific rigor of Advanced Placement courses and exams. Students who complete AP Seminar and AP Research with scores of 3 or higher and receive scores of 3 or higher on four AP Exams in subjects of their choosing, will receive the AP Capstone Diploma. Students who earn scores of 3 or higher on the two AP Capstone exams but do not take or earn qualifying scores on four additional AP Exams will receive the AP Seminar and Research Certificate. This course fulfills the intent and purpose of the state recommended capstone experience.

AP Capstone Seminar - (1 credit)
MHS Code: SRSEMPS Code: G01H22

- **Prerequisites: Subsequently or previously enrolled in English 2 Honors**
- **Co-requisite: English 2 Honors or AP Lang and Comp**
- **Grade Level: 10-11**
- **1 [EPSO](#)**

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

AP Research - (1 credit)
MHS Code: SRRESPS TN Code: G01H23

- **Prerequisite: AP Seminar**
- **Grade Level: 12**
- **1 [EPSO](#)**

AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000–5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense.

Special Courses

Peer Tutoring

(1 credit)

MJHS Code: SAPT0 MHS Code: SAPRTSS

TN Code: C15H13

- **Prerequisite: Application required**
- **Grade Level: 9-12**

This course is offered to students who want to assist in the Special Education Department. An understanding of various disabilities and trends/contemporary issues dealing with these disabilities will be gained. This course is suggested for students considering entering a career involving teaching and working with adults and children who have disabilities. Peer tutors may be assigned to accompany and assist students with disabilities in general education classes, or to serve as a job coach at based sites, or to tutor students in a special education classroom. Students **MUST** submit an application and complete a peer matching survey. Applications are available in Room 277 at MHS or in the school counseling office at MJHS.

Teacher Assistant (Student Assistant-MJHS)

(No Credit)

MJHS Code: SATA9

TN Code: C15H13

MHS Codes:

- **Semester course – SATASSS**
- **A/B day semester course – SATASSB**
- **Grade Level: 10-12**

Selection as a teacher assistant is a privilege. Students are expected to demonstrate integrity and maturity. Teacher assistants will be randomly assigned to classroom teachers or to one of the offices.

- Juniors and seniors may request the position of teacher assistant only one time per academic year and must be enrolled in five core academic courses.
- Sophomores may request the position of teacher assistant only one time per academic year and must be enrolled in five bonus point classes and not enrolled in Driver's Education.

Career and Technical Education

Career Exploration

(1 credit)

(*This course is encouraged as a pre-requisite for any and all high school CTE courses and programs of study, as well as academic and fine art elective focuses.)

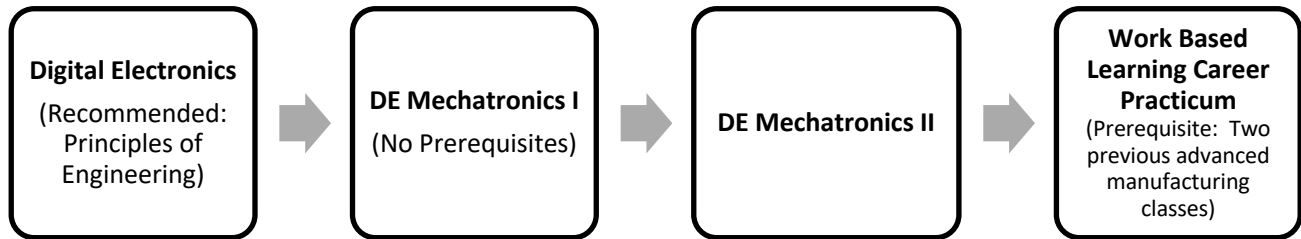
MJHS Code: CTCE9 TN Code: C25H08

- **Grade Level: 9**

This introductory course designed to assist students in (a) discovering their personal strengths and abilities, (b) understanding opportunities available to them in different career areas, and (c) practicing skills necessary to excel in the workforce and in postsecondary learning. Upon completion of this course, proficient students will know and exhibit soft skills (e.g. teamwork, creative thinking, and problem solving), as well as more technical skills (e.g. resume building and written communications) related to career exploration and experience. Students will also learn about existing CTE pathways and elective focus options within the Maryville High School setting, and will learn how to successfully transition into district recognized CTE pathways and programs of study. **This course is meant to serve as an exploratory course**

to assist students in determining an appropriate elective focus. It does not fulfill any graduation requirements.

ADVANCED MANUFACTURING/MECHATRONICS



Digital Electronics

MHS Code: CTDIGSS TN Code: C03H08

- Prerequisite: None, Principles of Engineering recommended
- Grade Level: 10-12
- 1 [EPSO](#) available for [LDC](#) exam: Digital Fundamentals Pellissippi State EETC 1331

(1 credit)

Digital Electronics is intended to provide students with an introduction to the basic components of digital electronic systems and equip them with the ability to use these components to design more complex digital systems. Standards in this course outline what students must know and do in order to (1) describe basic functions of digital components (including gates, flip flops, counters, and other devices upon which larger systems are designed), (2) use these devices as building blocks to design larger, more complex circuits, (3) implement these circuits using programmable devices, and (4) effectively communicate designs and systems. Students develop additional skill in technical documentation when operating and troubleshooting circuits.

DE Mechatronics 1

MHS Code: CTELTDS TN Code: C13H04

- Grade level: 11-12
- 1 [EPSO](#)

(1 credit)

DE Mechatronics 1 is open to 11th and 12th grade students. This is a dual enrollment course provided through Tennessee College of Applied Technology - Knoxville. Modules in this course are sequenced with TCAT's Industrial Maintenance/Mechatronics program [<https://tcatknoxville.edu/programs/industrial-maintenancemechatronics-technology>] and are designed to prepare students to install, adjust, troubleshoot and repair a variety of industrial machinery used in manufacturing settings.

DE Mechatronics 2

MHS Code: CTELTDS TN Code: C13H04

- Prerequisite: DE Mechatronics 1
- Grade level: 11-12
- 1 [EPSO](#)
- 1 industry certification available: Level 1 Siemens Certified Mechatronics Systems Assistant

(1 credit)

DE Mechatronics 2 is open to 11th and 12th grade students who have completed DE Mechatronics 1. This is a dual enrollment course provided through Tennessee College of Applied Technology - Knoxville. Modules in this course are sequenced with TCAT's Industrial Maintenance/Mechatronics program [<https://tcatknoxville.edu/programs/industrial->

[maintenancemechatronics-technology](#)] and are designed to prepare students to install, adjust, troubleshoot and repair a variety of industrial machinery used in manufacturing settings.

Work-Based Learning (WBL) Career Practicum

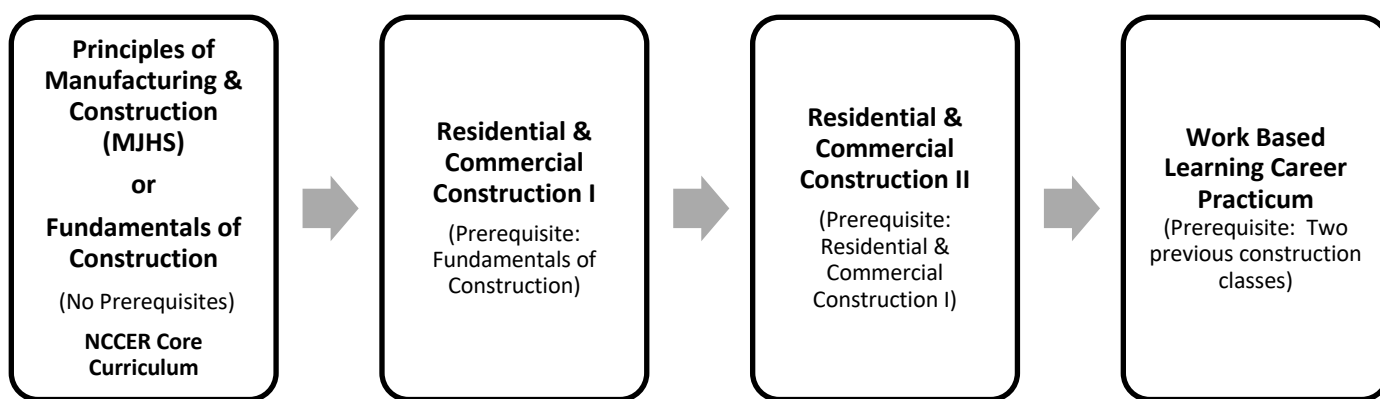
(1 credit)

MHS Code: CTWBLSS TN Code: C20H17

- **Prerequisite: 2 credits in a CTE program of study**
- **Application required**
- **Grade Level: 11th & 12th (students must be at least 16 years old)**

WBL experiences are activities at the high school level that involve actual work experience or connect classroom learning to work. Students have the opportunity to earn course credit while learning how to apply classroom concepts and theories in the workplace through paid or unpaid placements. WBL experiences can be a capstone course for all Career and Technical Education programs of study. WBL is open to 11th and 12th grade students who have earned a minimum of 2 credits in a CTE program of study.

ARCHITECTURE AND CONSTRUCTION



Principles of Manufacturing & Construction

(1 credit)

MJHS Code: STPM0 TN Code: C17H15

- **Grade Level: 9**

This course provides students with exposure to various occupations and pathways in the Manufacturing Career Cluster. Students will develop an understanding of the general steps involved in the manufacturing process and master the essential skills to be an effective team member in a manufacturing production setting.

Fundamentals of Construction

(1 credit)

MHS Code: CTFOCSS TN Code: C17H15

- **Grade Level: 10-11**
- **1 industry certification available: NCCER Core Curriculum**

Fundamentals of Construction is a course that will introduce students to basic skills and knowledge applicable to all construction trades. Topics covered include safety, construction drawings, site layout, hand and power tools, linear and angular measurements, and application of algebraic and geometric principles to construction problems. A fee is charged to defray the cost of materials. More information on the NCCER certification can be found at <https://www.nccer.org/workforce-development-programs/disciplines/craft-details/core-curriculum>.

Residential and Commercial Construction I

(1 credit)

MHS Code: CTRC1SS TN Code: C17H24

- **Prerequisite: Principles of Manufacturing & Construction or Fundamentals of Construction**
- **Grade Level: 10-12**

Residential and Commercial Construction 1 is a course that will introduce students to basic skills and knowledge related to cabinetmaking, residential and commercial carpentry. Topics covered include wood, metal, and concrete building

materials; fasteners; hand and power tools; fabrication based on construction plans; and framing of platform and post-and-beam structures, in both wood and metal. This course gives students an introduction to the skill and knowledge base typically required for apprentice carpenters. A fee is charged to defray the cost of materials.

Residential and Commercial Construction II

(1 credit)

MHS Code: CTRC2SS TN Code: C17H25

- **Prerequisite: Fundamentals of Construction, Residential and Commercial Construction 1**
- **Grade Level: 11th and 12th**

Residential and Commercial Construction 2 is a course in which students will extend their skills and knowledge related to residential and commercial carpentry. Topics include stairs, installation and trim of windows and doors, installation and repair of gypsum wallboard, advanced site layout, exterior finish work, thermal and moisture protection. This course gives students a substantial skill and knowledge foundation typically required for apprentice carpenters. A fee is charged to defray the cost of materials.

Work-Based Learning (WBL) Career Practicum

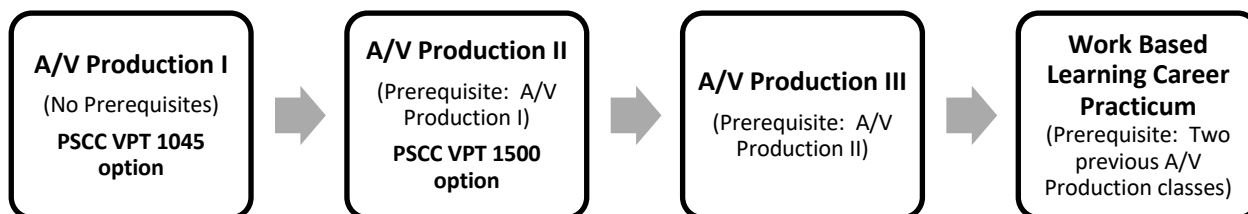
(1 credit)

MHS Code: CTWBLSS TN Code: C20H17

- **Prerequisite: 2 credits in a CTE program of study**
- **Application required**
- **Grade Level: 11th & 12th (students must be at least 16 years old)**

WBL experiences are activities at the high school level that involve actual work experience or connect classroom learning to work. Students have the opportunity to earn course credit while learning how to apply classroom concepts and theories in the workplace through paid or unpaid placements. WBL experiences can be a capstone course for all Career and Technical Education programs of study. WBL is open to 11th and 12th grade students who have earned a minimum of 2 credits in a CTE program of study.

ARTS, AUDIO/VISUAL TECHNOLOGY, & COMMUNICATIONS



A/V Production I

(1 credit)

MHS Code: CTAV1SS TN Code: C11H01

- **Prerequisite: None**
- **Grade Level: 10-11**
- **1 [EPSO](#) available for [LDC](#) exam: Technical Video Production Pellissippi State VPT 1045**

This course is offered for students interested in either the Audio and Video Technologies sub-cluster or the Journalism and Broadcasting sub-cluster of the arts and communication cluster. The overlap in these industries is extensive as can be witnessed in television, film, music, radio, newspaper, Web-cast, and entertainment just to name a few. This course is the entry-level course to prepare students for the media industry. Course content provides a broad-based exposure to audio, video, and journalism and broadcasting within the media industry. Upon completion of this course, students will be prepared to pursue advanced coursework in either audio and video technology or journalism and broadcasting.

A/V Production II

(1 credit)

MHS Code: CTAV2SS TN Code: C11H02

- **Prerequisite: A/V Production I**
- **Grade Level: 10-12**
- **1 [EPSO](#) available for [LDC](#) exam: Campus Broadcast II Pellissippi State VPT 1500**

This course is offered in the audio and video technology sub-cluster to students who have completed Broadcasting I. Course content focuses on electronic media production (EMP) technologies utilizing simulated and/or real life projects. This course centers on production of various EMP products, including commercials, news, music, interactive, and industrial programming. The student will gain valuable insight into the many facets of EMP production, including, but not limited to, concept creation, scripting, sound design, visual design, engineering, editing, budgeting, and producing, as well as exploring some of the latest advances in industry technology. The class centers around the production of the student produced program “Rebel Rewind” which airs to the student body weekly. Upon completion of this course, students will be prepared to pursue advanced coursework.

A/V Production III

(1 credit)

MHS Code: CTAV3SS TN Code: C11H03

- **Prerequisite: A/V Production I and II**
- **Grade Level: 11-12**

This advanced course is available to students who have completed A/V Production I and II and are interested in pursuing advanced course work in audio and video technology. Students will produce LIVE events that include sports, fine arts, and graduation. Students will interact in a work-based experience and receive compensation for responsible and regular performance during LIVE events.

Work-Based Learning (WBL) Career Practicum

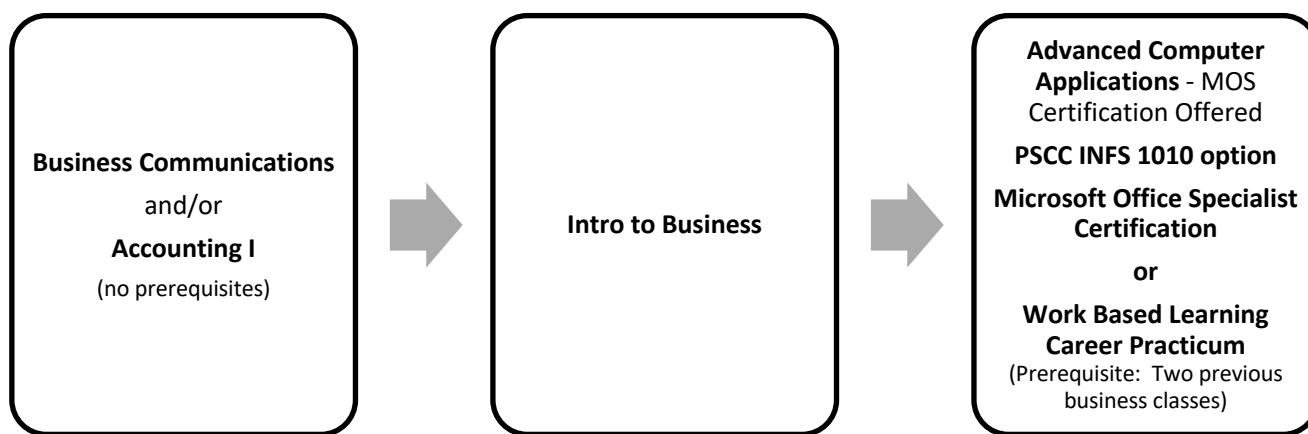
(1 credit)

MHS Code: CTWBLSS TN Code: C20H17

- **Prerequisite: 2 credits in a CTE program of study**
- **Application required**
- **Grade Level: 11th & 12th (students must be at least 16 years old)**

WBL experiences are activities at the high school level that involve actual work experience or connect classroom learning to work. Students have the opportunity to earn course credit while learning how to apply classroom concepts and theories in the workplace through paid or unpaid placements. WBL experiences can be a capstone course for all Career and Technical Education programs of study. WBL is open to 11th and 12th grade students who have earned a minimum of 2 credits in a CTE program of study.

BUSINESS MANAGEMENT



Accounting 1

(1 credit)

MHS Code: CTAC1SS TN Code: C12H27

- **Grade Level: 10-12**

Accounting I is an essential course for students who wish to pursue careers in business and finance, or for those who wish to develop important skill sets related to financial literacy. Whether students aspire to be future business owners or work in finance with other companies, accounting skills are fundamental to success and applicable in many different fields. Students develop skills to analyze business transactions, journalize, post, and prepare worksheets and financial statements. Students receive exposure to the ethical considerations that accounting professionals must face and the standards of practice governing their work. Working papers are required.

Business Communications

(1 credit)

MHS Code: CTBUSS TN Code: C12H16

- **Grade Level: 10-12**

Business Communications is a course that prepares students for oral and electronic business communications in the 21st century. This course includes developing skills in social media, electronic publishing, design, layout, composition, digital communications and video conferencing. As one of the most important skills for employers, students will explore the value of communication in their personal and professional life. The digital presence and impact of written, visual, and oral communication in a technological society will be addressed. Leadership development and teamwork skills will be stressed as students work independently and collaboratively. Employability standard presentation skills will be developed for students.

Intro to Business

(1 credit)

MHS Code: CTBMKSS TN Code: C12H44

- **Grade Level: 10-12**
- **Recommended prerequisite: Marketing I & II**
- **1 [EPSO](#) available for [SDC](#) exam: BUSN 1305**

Introduction to Business offers understanding of how business works through application of fundamental business functions. Includes business ethics, corporate social responsibility and legal environments, logistics and supply chain management. Also includes current employment practices and the effect of various stakeholders of a business. Includes methods of human resource management to select, train, develop, appraise and compensate the labor force, as well as understanding why and how companies expand internationally, comparative advantage and importing/exporting.

Advanced Computer Applications

(1 credit)

MHS Code: CTIITSS TN Code: C12H16

- **Grade level: 11th or 12th**
- **1 industry certification available: Microsoft Office Specialist – Word, Excel, Access, PowerPoint**
- **1 [EPSO](#) available for [LDC](#) exam: Computer Applications Pellissippi State INFS 1010**

Advanced Computer Applications is an upper level course in the Business Management program of study in which students can earn dual credit. This class prepares students to continue postsecondary training in business-related programs. Students will work independently to complete rigorous course content using training and projects that emulate industry certification testing. By passing all 4 tests for Microsoft Office Specialists [<https://www.microsoft.com/en-us/learning/mos-certification.aspx>], students may earn credit at Pellissippi State Community College. Please verify credit information with the college of your choice, citing specific criteria in a program or major, because not all credits will transfer to all programs or majors.

Work-Based Learning (WBL) Career Practicum

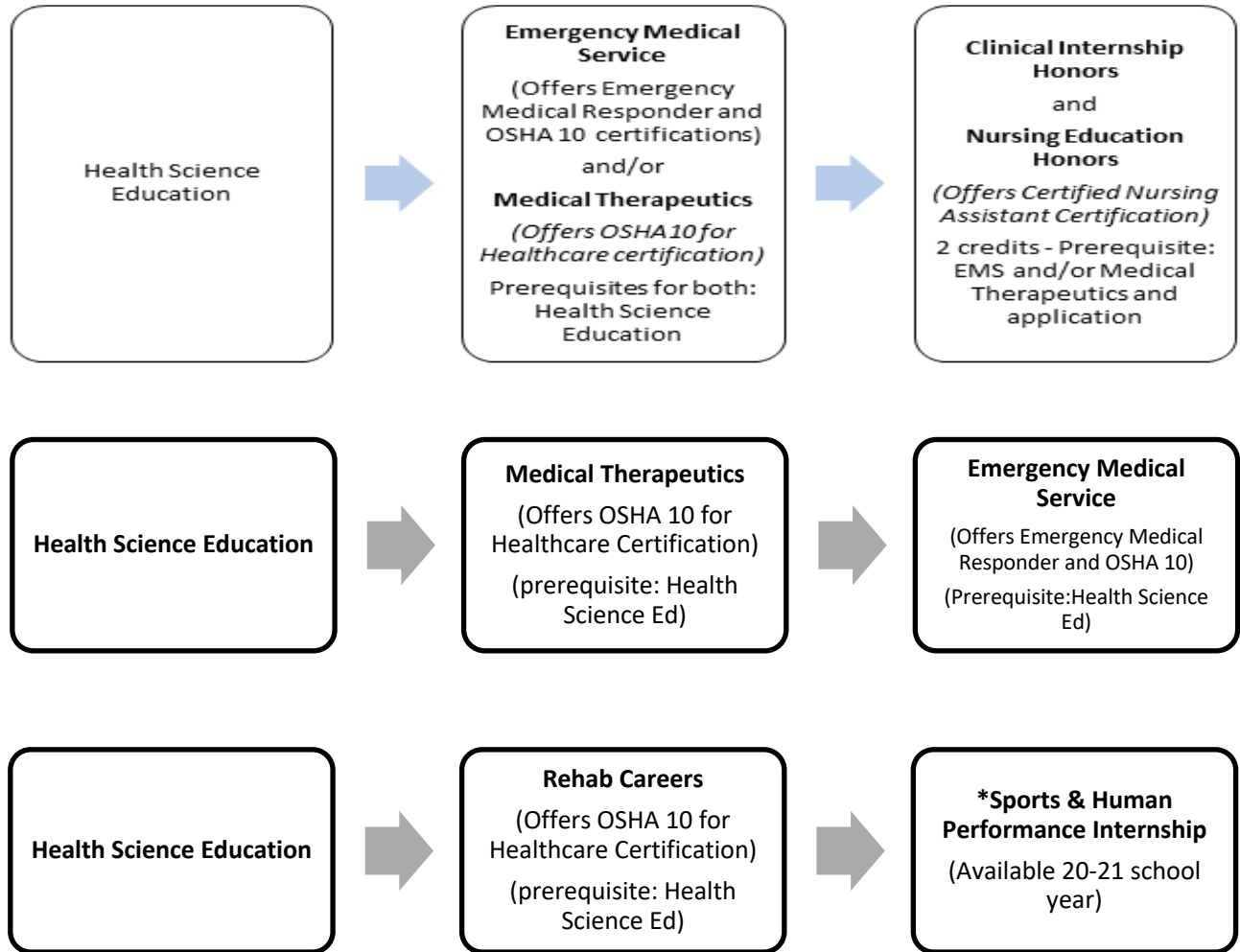
(1 credit)

MHS Code: CTWBLSS TN Code: C20H17

- **Prerequisite: 2 credits in a CTE program of study**
- **Application required**
- **Grade Level: 11th & 12th (students must be at least 16 years old)**

WBL experiences are activities at the high school level that involve actual work experience or connect classroom learning to work. Students have the opportunity to earn course credit while learning how to apply classroom concepts and theories in the workplace through paid or unpaid placements. WBL experiences can be a capstone course for all Career and Technical Education programs of study. WBL is open to 11th and 12th grade students who have earned a minimum of 2 credits in a CTE program of study.

HEALTH SCIENCE



Health Science Education

MJHS Code: CTHS9 MHS Code: CTHSESS TN Code: C14H14

- **Grade level: 9-11**

(1 credit)

This introductory course acquaints the student with beginning principles of health care, services offered by health care systems, careers in the health care industry, the fundamentals of nutrition, and basic patient care skills. Components of human anatomy & physiology, growth & development, cultural diversity, and communication skills are emphasized as they relate to the medical setting. Students who are interested in any type of future medical career are highly encouraged to take this course. Preference is given to sophomores and juniors who wish to complete all four Health Science courses and become program completers. A lab fee will be charged.

Rehab Careers

(1 credit)

MHS Code: CTRHCSS TN Code: C14H08

- Prerequisite: Health Science Education
- Grade Level: 10-12
- 1 industry certification available: OSHA 10

Rehabilitation Careers is an applied course designed to prepare students to pursue careers in rehabilitation services. Upon completion of this course, a proficient student will be able to identify careers in rehabilitation services, recognize diseases, disorders or injuries related to rehabilitation services and correlate the related anatomy and physiology then develop a plan of treatment with appropriate modalities. More information on the OSHA 10 certification can be found at <https://www.oshaeducationcenter.com/osha-10-hour-training.aspx>.

Medical Therapeutics**(1 credit)****MHS Code: CTMTHSS TN Code: C14H15**

- Prerequisite: Health Science Education
- Grade Level: 10-12
- 1 industry certification available: OSHA 10

This course is recommended for students who are interested in any health or medically-related career. In addition to expanding knowledge previously learned in the Health Science Education course, students will be introduced to basic concepts in age appropriate care, patient assessment & data collection, formulation & analysis of patient treatment plans, and basic disease processes. This course satisfies the pre-requisite for progression into the Clinical Internship/Nursing Education courses. A lab fee will be charged. More information on the OSHA 10 certification can be found at <https://www.oshaeducationcenter.com/osha-10-hour-training.aspx>.

Emergency Medical Services**(1 credit)****MHS Code: CTEMSSS TN Code: C14H13**

- Prerequisite: Health Science Education
- Grade Level: 11th and 12th grade
- 2 industry certifications available: OSHA 10 and Emergency Medical Responder

This course is designed to introduce students to the field of emergency services and the various career opportunities within trauma and emergency medicine. The primary competencies include scene and patient assessment, triage, safety, CPR, and basic treatment of injuries and illness. This course satisfies the pre-requisite for progression into the Clinical Internship/ Nursing Education courses. A fee will be charged to cover the cost of lab supplies and CPR certification. More information on the OSHA 10 certification can be found here: <https://www.oshaeducationcenter.com/osha-10-hour-training.aspx>.

***Per TN Dept of Health**, eligibility for Emergency Medical Responder certification requires students to successfully complete the course with a minimum of an 80 average, demonstrate competency in all lab skills and **reach the age of *17 by the end of the course**. There are additional fees associated with National Registry First Responder Certification exam and additional information can be found here: <https://www.ems.gov/pdf/811077a.pdf>.

Clinical Internship / Nursing Education**(2 credits)****MHS Code: CTCINHS (Clinical Internship) TN Code: C14H11****MHS Code: CTNEDHS (Nursing Education) TN Code: C14H16**

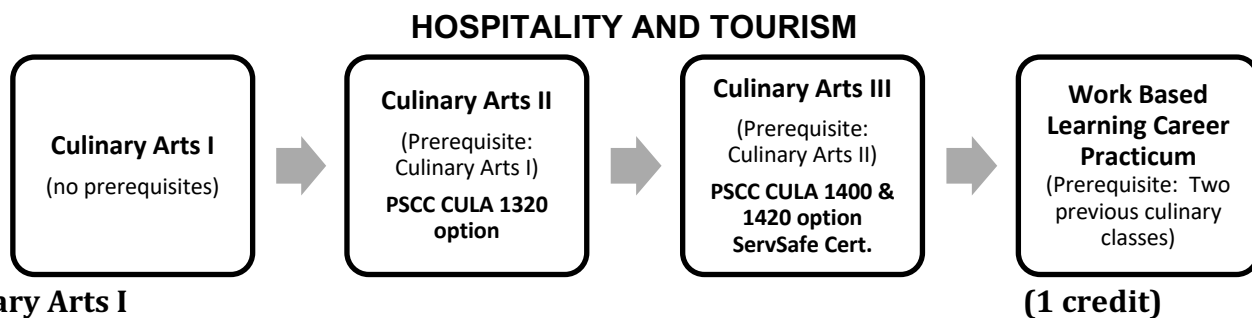
- Prerequisite: Emergency Medical Services and/or Medical Therapeutics
- Recommended Prerequisite: Anatomy & Physiology
- Application required
- Grade level: 12th
- 1 industry certification available: Certified Nursing Assistant (CNA)

These senior level capstone courses are taught concurrently during two consecutive blocks and are designed to reinforce and apply previously learned health science competencies through off-campus, experiential learning in a variety of health care settings. Students must have earned Basic Life Support certification to participate in this co-hort.

Clinical Internship enables students to utilize and apply previous learning to real clinical scenarios and provides insight into the reality of the health careers within their interest. Internships are available in careers related to nursing, veterinary medicine, radiology, dentistry, physical therapy, emergency medical services, laboratory diagnostics, respiratory therapy, and others.

Nursing Education consists of 100+ hours of classroom, lab, and off-campus clinical hours. Classroom content focuses on direct bedside nursing care. Clinical experiences will consist of supervised practice in the nursing home, as well as demonstrations in the classroom/lab. Upon successful completion of the MHS course and the state training program, students will have the opportunity to sit for the state Certified Nursing Assistant (CNA) exam. The state test is optional and requires an additional fee to be paid by the student. This course is open to seniors only.

Parents/students will be responsible for purchasing a uniform, stethoscope, and securing transportation from campus to the clinical assignments. A lab fee will be charged. Additional fees will be required for state testing and licensure. A medical exam, proof of health insurance, and proof of car insurance will also be required by the Tennessee Department of Education for participation in this course.



Culinary Arts I

MJHS Code: CTCA0 MHS Code: CTCA1SS TN Code: C16H06

- **Grade Level: 9-11**

Culinary Arts I is the first level of Culinary Arts and prepares students for gainful employment and/or entry into post-secondary education in the food production and service industry. Designed to introduce students to food preparation concepts, terminology and practices in the modern commercial kitchen, the content provides students the opportunity to acquire marketable skills by examining both the industry and its career opportunities and by developing food preparation, service and interpersonal skills. Fundamental techniques and skills are taught with an emphasis on safety, sanitation, and proper equipment operation and maintenance. A \$40 lab fee will be charged.

Culinary Arts II

MHS Code: CTCA2SS TN Code: C16H07

- **Prerequisite: Culinary Arts 1**
- **Grade Level: 10-12**
- **1 [EPSO](#) available for [LDC](#) exam: Culinary 1 Pellissippi State CULA 1320**

(1 credit)

Culinary Arts II is an applied-knowledge course to prepare students for careers in the culinary field as a personal chef, caterer, executive chef, and food and beverage manager. Upon completion of this course, proficient students will have an understanding of commercial kitchen safety and sanitation, menu planning, food presentation, purchasing and inventory, preparation skills, cooking principles, and food preparation. A \$40 lab fee will be charged.

Culinary Arts III

MHS Code: CTCA3SS TN Code: C16H08

- **Prerequisite: Culinary Arts 1 & 2**
- **Grade Level: 10-12**
- **2 [EPSO](#) available for [LDC](#) exams: Sanitation & Food Safety Pellissippi State HSP1400 and Nutrition for the Culinary Arts Pellissippi State HSP 1420**
- **1 industry certification available: ServSafe Food Manager**

(1 credit)

Culinary Arts III is an advanced course intended to further equip students with the skills and knowledge needed to pursue

a variety of careers in the culinary field. Upon completion of the course, students will be proficient in components of commercial kitchen safety and sanitation, dining room service, food preparation and presentation, bakeshop preparation skills and equipment, and advanced cooking principles. A \$40 lab fee will be charged.

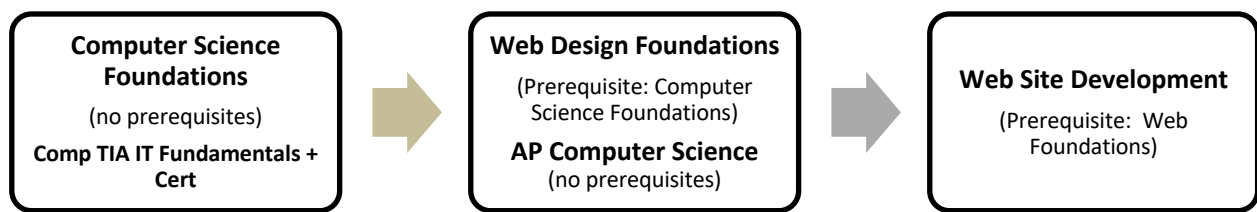
Work-Based Learning (WBL) Career Practicum (1 credit)

MHS Code: CTWBLSS TN Code: C20H17

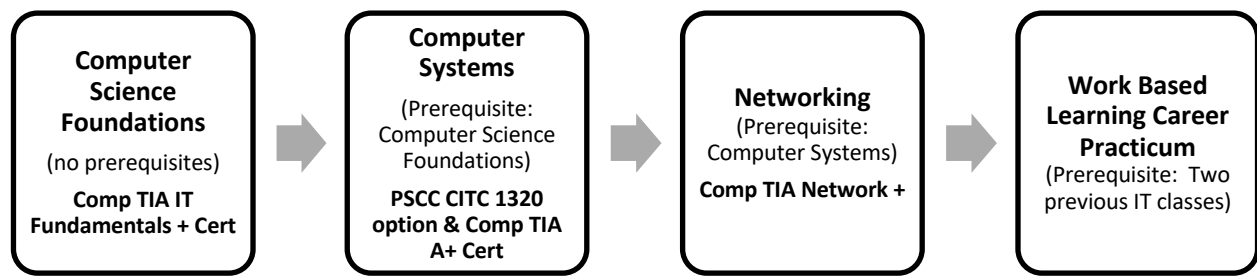
- Prerequisite: 2 credits in a CTE program of study
- Application required
- Grade Level: 11th & 12th (students must be at least 16 years old)

WBL experiences are activities at the high school level that involve actual work experience or connect classroom learning to work. Students have the opportunity to earn course credit while learning how to apply classroom concepts and theories in the workplace through paid or unpaid placements. WBL experiences can be a capstone course for all Career and Technical Education programs of study. WBL is open to 11th and 12th grade students who have earned a minimum of 2 credits in a CTE program of study.

INFORMATION TECHNOLOGY – WEB DESIGN



INFORMATION TECHNOLOGY – NETWORKING SYSTEMS



Computer Science Foundations (1 credit)

MJHS Code: CTSCF MHS Code: CTCSFSS TN Code: C10H11

- Grade Level: 9-11
- 1 industry certification available: Comp TIA IT Fundamentals + Certification

Computer Science Foundations (CSF) is a course intended to provide students with exposure to various information technology occupations and pathways such as Networking Systems, Coding, Web Design, and Cybersecurity. As a result, students will complete all core standards, as well as standards in two of four focus areas. Upon completion of this course, proficient students will be able to describe various information technology (IT) occupations and professional organizations. Moreover, they will be able to demonstrate logical thought processes and discuss the social, legal, and ethical issues encountered in the IT profession. Depending on the focus area, proficient students will also demonstrate an understanding of electronics and basic digital theory; project management and teamwork; client relations; causes and prevention of Internet security breaches; and writing styles appropriate for web publication. Upon completion of the CSF course, students will be prepared to make an informed decision about which Information Technology program of study to pursue.

Computer Systems (1 credit)

MHS Code: CTCSSYSS TN Code: C10H10

- Prerequisite: Computer Science Foundations
- Grade Level: 10-12
- 1 [EPSO](#) available for [LDC](#): A+ Hardware & Software Pellissippi State CITC 1320

- **1 industry certification available: Comp TIA A+ Certification**

Computer Systems is an intermediate course designed to prepare students with work-related skills and aligned certification in the information technology industry. Content provides students the opportunity to acquire knowledge in both theory and practical applications pertaining to hardware, operating systems, safe mode, command prompt, security, networking, printers, peripheral devices, laptops, mobile devices, troubleshooting, and customer service management. Upon completion of the course, proficient students will have acquired skills and knowledge to install, configure, and maintain computer systems. Students who are proficient in this course will be eligible to pursue the IT industry-standard credential, CompTIA's A+ certification [<https://certification.comptia.org/certifications/a>].

Networking

(1 credit)

MHS Code: CTNWKSS TN Code: C10H13

- **Prerequisite: Computer Systems**
- **Grade Level: 10-12**
- **1 industry certification available: Comp TIA Network +**

Networking is an advanced course designed to emphasize the conceptual and practical skills necessary to design, manage, and diagnose network hardware and software. Upon completion of this course, proficient students will identify types of networks, understand the layers of the open systems interconnection (OSI) model, prevent security risks, and apply troubleshooting theory to the successful execution of networking tasks. Course content covers transmission control protocol, internet protocol, wired and wireless topologies, switching and routing, network hardware, wireless networking, and network operating systems (NOS). Upon completion of this course, proficient students will be prepared to sit for the CompTIA Network+ exam.

AP Computer Science Principles

(1 credit)

MHS Code: CTCSPPS TN Code: G02H44

- **Grade Level: 11-12**
- **1 [EPSO](#)**

AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles also gives students the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science. Students who choose to take AP course work are expected to take the AP exam and/or submit their portfolio to College Board for AP course evaluation. Students will be responsible for the cost of exams and/or submissions.

Web Design Foundations

(1 credit)

MHS Code: CTWDFSS TN Code: C10H16

- **Prerequisite: Computer Science Foundations**
- **Grade Level: 10-12**
- **1 [EPSO](#) available for [LDC](#) exam: Design Basics for Web & Print Pellissippi State DWP 1010**

This course prepares students with work-related skills for advancement into postsecondary education or industry. Course content includes basic Web Design and Web design in e-commerce. Students will have the opportunity to acquire fundamental skills in a variety of Web applications, programming languages, multimedia technologies, and basic data communications.

Web Site Development

(1 credit)

MHS Code: CTWSDSS TN Code: C10H17

- **Prerequisite: Web Design Foundations**
- **Grade Level: 10-12**
- **1 [EPSO](#) available for [LDC](#) exam: Web Design I: Intro to Web Tech Pellissippi State Web 1600**

This course prepares students with work-related skills for advancement into postsecondary education or industry. Course content includes basic and advanced Web Design, graphics, animation, Web hosting, and Web design in e-commerce.

Students will have the opportunity to acquire fundamental skills in both HTML and COTS (commercial off-the-shelf) Web building software, and JavaScript.

Work-Based Learning (WBL) Career Practicum

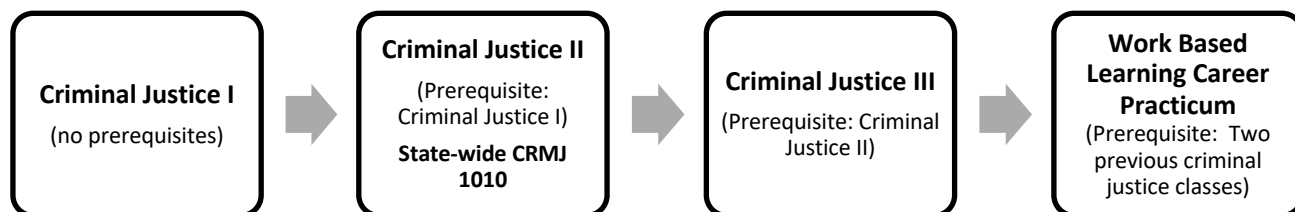
(1 credit)

MHS Code: CTWBLSS TN Code: C20H17

- **Prerequisite: 2 credits in a CTE program of study**
- **Application required**
- **Grade Level: 11th & 12th (students must be at least 16 years old)**

WBL experiences are activities at the high school level that involve actual work experience or connect classroom learning to work. Students have the opportunity to earn course credit while learning how to apply classroom concepts and theories in the workplace through paid or unpaid placements. WBL experiences can be a capstone course for all Career and Technical Education programs of study. WBL is open to 11th and 12th grade students who have earned a minimum of 2 credits in a CTE program of study.

LAW ENFORCEMENT SERVICES



Criminal Justice 1

MHS Code: CTCJ1SS TN Code: C15H10

- **Grade Level: 10-11**
- **NCAA Eligibility Qualifying Course**

Criminal Justice I is the first course in the Criminal Justice pathway of study. This course will give students a well-rounded view of the Criminal Justice system and all its components. Students will critically analyze each component in order to determine its role and responsibility in relation to the big picture of criminal justice. Course content will also focus on areas comprised of planning, managing, and providing judicial, legal, and protective services. This course is dedicated to making sure students develop a better understanding of how laws are developed on the local, state, and federal level. New technology and career opportunities in criminal justice are an integral part of the course content and students are prepared through the integration of SKILLS USA components in handcuffing, building clearing, felony traffic stops, and forensics.

Criminal Justice 2

(1 credit)

MHS Code: CTCJ2SS TN Code: C15H21

- **Prerequisite: Criminal Justice 1**
- **Grade Level: 10-12**
- **1 [EPSO](#) available for [SDC](#) exam: CRMJ 1010**

Criminal Justice II Statewide Dual Credit (SWDC) also known as "Intro to Criminal Justice" is a post-secondary level course that will dig deeper into the concepts and skills learned by students in Criminal Justice I. The course will cover criminological theory, current events as they relate to law enforcement policy and procedure, the inner workings of the judicial system – specifically focusing on the criminal trial and rights guaranteed to the accused per the Constitution, and much more. Students should be prepared to be challenged as they will need to think critically as they work individually and with peers to problem solve and apply key concepts to real life scenarios. The class will participate in field trips and projects to strengthen the concepts covered in the course. This course is open to students in grades 11 and 12. All students will sit for the statewide dual credit exam and have the potential to earn 3 college credits. Students will need to verify with the college of their choice for specific criteria regarding their focus area – not all credits will transfer to all programs or majors.

Criminal Justice 3

(1 credit)

MHS Code: CTCR3SS TN Code: C15H12

- **Prerequisite: Criminal Justice 1 & 2**

- **Grade Level: 11-12**

Criminal Justice 3 is a continuation and a completion to the Criminal Justice Program. The course will cover current job opportunities within the criminal justice field for local, state, federal, and international careers. Concepts and terminology developed throughout the Criminal Justice Program will be expanded through the course. In this course, students will complete a research exercise in which they will engage in a variety of information-gathering techniques. Criminal Justice 3 is open to students in Grade 12 who have successfully completed Criminal Justice 1 and Criminal Justice 2.

DE Criminal Justice 2020

(1 credit)

MHS Code: CTCJ3DS TN Code: C10H07

- **Prerequisite: Criminal Justice 1 & 2**
- **Grade Level: 11-12**
- **1 [EPSO](#)**

Students who meet Pellissippi State Community College admission requirements may elect to take this course for Dual Credit as their completion of the Criminal Justice Program. This course includes the history to criminal corrections in the United States; analysis of the crime problem; identification of the correctional client; correctional methods used in the United States; and emphasis on correctional goals in the criminal justice system. If you meet certain course criteria, you may be eligible to earn state-wide post-secondary dual credit. Please verify with the college of your choice for specific criteria in a program or major - not all credits will transfer to all programs or majors.

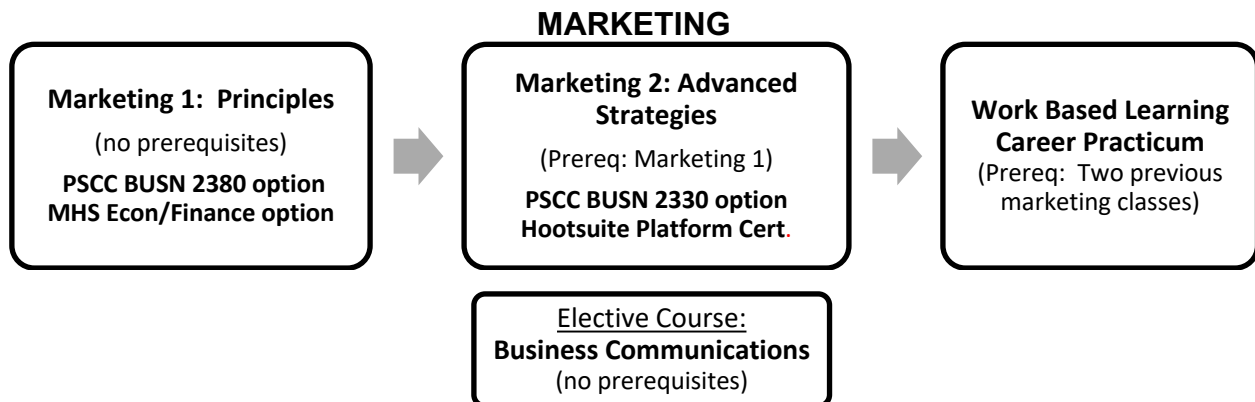
Work-Based Learning (WBL) Career Practicum

(1 credit)

MHS Code: CTWBLSS TN Code: C20H17

- **Prerequisite: 2 credits in a CTE program of study**
- **Application required**
- **Grade Level: 11th & 12th (students must be at least 16 years old)**

WBL experiences are activities at the high school level that involve actual work experience or connect classroom learning to work. Students have the opportunity to earn course credit while learning how to apply classroom concepts and theories in the workplace through paid or unpaid placements. WBL experiences can be a capstone course for all Career and Technical Education programs of study. WBL is open to 11th and 12th grade students who have earned a minimum of 2 credits in a CTE program of study.



Marketing 1

(1 credit)

MHS Code: CTMK1SS TN Code: C12H29

- **Grade Level: 10th & 11th**
- **1 [EPSO](#) available for [LDC](#) exam: Principles of Marketing Pellissippi State BUSN 2380**

Marketing 1 is an introductory study of how a business can attract, retain, and grow current and future customers. The curriculum includes marketing fundamentals, economics, new product development, product planning, sales, promotion, and careers in marketing. **Marketing 1 may satisfy the state economics and personal finance requirements for graduation.** Students will also have the opportunity eligible to attempt PSCC local college dual credit for PSCC BUSN 2380 – Principles of Marketing, a three hour course upon meeting course requirements and passing a final project graded by PSCC Instructors.

Marketing and Management 2

(1 credit)

MHS Code: CTMK2SS TN Code: C12H30

- Prerequisite: Marketing 1
- Grade Level: 11th & 12th
- 1 [EPSO](#) available for [LDC](#) exam: Principles of Marketing Pellissippi State BUSN 2330
- 1 industry certification available: Hootsuite Platform Certification

Marketing and Management 2 is a study of marketing concepts and principles as well as challenges, responsibilities, and risks managers' face in today's workplace. Subject matter includes finance, business ownership, promotion, and human resource skills. Students will visit several local business sites during the term to observe real world business experiences and must have access to transportation and permission to travel off-campus. Students will have the opportunity to earn both an industry certification [<https://education.hootsuite.com/courses/platform-cert>] and may be eligible to attempt PSCC local college dual credit for PSCC BUSN 2330 – Principles of Management, a three hour course upon meeting course requirements and passing a final project graded by PSCC Instructors.

Work-Based Learning (WBL) Career Practicum

(1 credit)

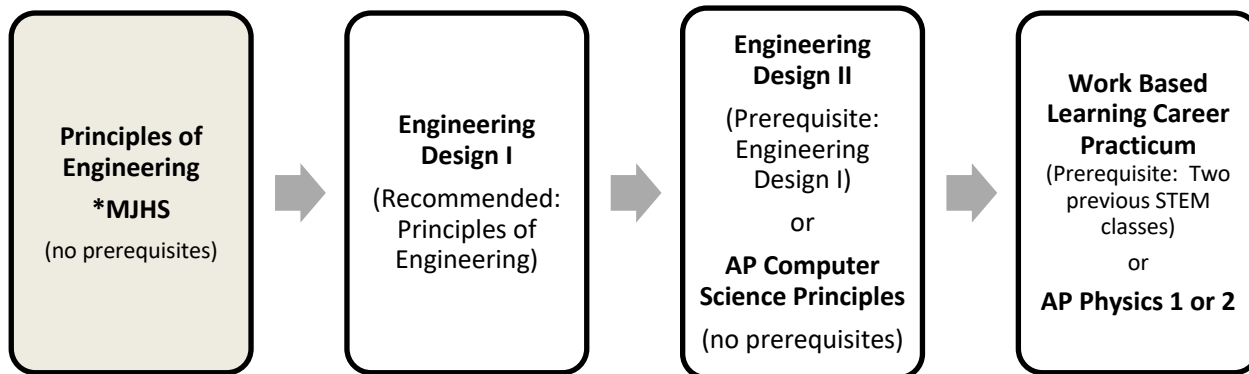
MHS Code: CTWBLSS TN Code: C20H17

- Prerequisite: 2 credits in a CTE program of study
- Application required
- Grade Level: 11th & 12th (students must be at least 16 years old)

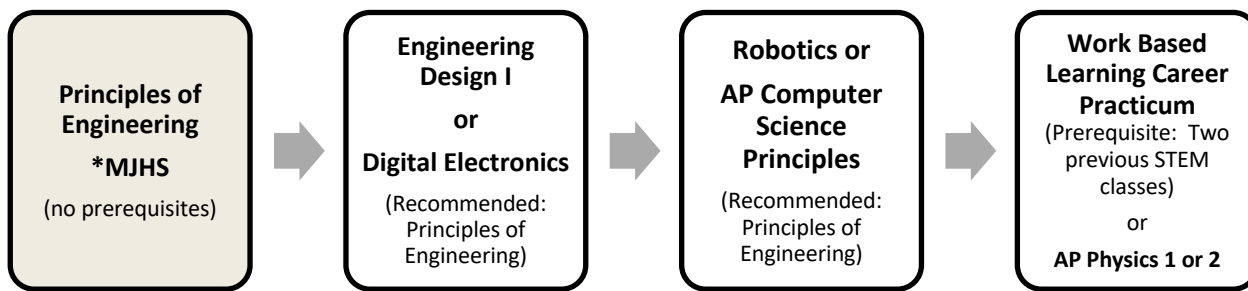
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SCIENCE, TECHNOLOGY, ENGINEERING, & MATHEMATICS

ENGINEERING:



TECHNOLOGY



Principles of Engineering & Technology

(1 credit)

MJHS Code: CTET9 TN Code: C21H04

- **Grade Level: 9**

This survey course of engineering exposes students to some of the major concepts they'll encounter in a postsecondary engineering course of study. Students have an opportunity to investigate engineering and high-tech careers while developing skills and understanding of course concepts. Students employ engineering and scientific concepts in the solution of engineering design problems. Students will use VEX Robotics kits and learn some basic programming.

Digital Electronics

(1 credit)

MHS Code: CTDIGSS TN Code: C03H08

- **Recommended: Principles of Engineering**
- **Grade Level: 10-12**
- **1 [EPSO](#) available for [LDC](#) exam: Digital Fundamentals Pellissippi State EETC 1331**

Digital Electronics is intended to provide students with an introduction to the basic components of digital electronic systems and equip them with the ability to use these components to design more complex digital systems. Standards in this course outline what students must know and do in order to (1) describe basic functions of digital components (including gates, flip flops, counters, and other devices upon which larger systems are designed), (2) use these devices as building blocks to design larger, more complex circuits, (3) implement these circuits using programmable devices, and (4) effectively communicate designs and systems. Students develop additional skill in technical documentation when operating and troubleshooting circuits.

AP Computer Science Principles

(1 credit)

MHS Code: CTCSPPS TN Code: G02H44

- **Grade Level: 11-12**
- **1 [EPSO](#)**

AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles also gives students the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science. Students who choose to take AP course work are expected to take the AP exam and/or submit their portfolio to College Board for AP course evaluation. Students will be responsible for the cost of exams and/or submissions.

Engineering Design I

(1 credit)

MHS Code: CTCSESS TN Code: C21H05

- **Grade Level: 10-12**

Engineering Design 1 is a continuation of the STEM 1 curriculum in career and technical education known as Principles of Engineering. The main purpose of this course is to provide contextual and project based instruction to facilitate students understanding of the fundamental implementation of engineering and best practices. This course will allow students to further develop mastery in creating and fabricating models and testing concepts regarding real world problems.

Engineering Design II

(1 credit)

MHS Code: TN Code: C21H06

- **Grade Level: 10-12**
- **Prerequisite: Engineering Design I**
- **1 industry certification available: Certified Solidworks Associate (CSWA)-Academic Autodesk Inventor Certified User**

Engineering Design II is an applied course in the STEM career cluster for students interested in further developing their skills as future engineers. This course covers knowledge, skills, and concepts required for postsecondary engineering and technology fields of study. Upon completion of this course, proficient students are able to explain the differences between scientists and engineers, understand the importance of ethical practices in engineering and technology, identify components of control systems, describe differences between laws related to fluid power systems, explain why material and mechanical properties are important to design, create simple free body diagrams, use measurement devices employed in engineering, conduct basic engineering economic analysis, follow the steps in the engineering design process to complete a team project, and effectively communicate design solutions to others.

Robotics and Automated Systems

(1 credit)

MHS Code: CTRASSS TN Code: C13H15

- **Prerequisite: Principles of Engineering and Digital Electronics or AP Computer Science**
- **Grade Level: 11th & 12th**

Robotics & Automated Systems is an applied course for students who wish to explore how robots and automated systems are used in industry. Upon completion of this course, proficient students will have an understanding of the historical and current uses of robots and automated systems; programmable circuits, interfacing both inputs and outputs; ethical standards for engineering and technology professions; and testing and maintenance of robots and automated systems.

Work-Based Learning (WBL) Career Practicum

(1 credit)

MHS Code: CTWBLSS TN Code: C20H17

- **Prerequisite: 2 credits in a CTE program of study**
- **Application required**
- **Grade Level: 11th & 12th (students must be at least 16 years old)**

WBL experiences are activities at the high school level that involve actual work experience or connect classroom learning to work. Students have the opportunity to earn course credit while learning how to apply classroom concepts and theories in the workplace through paid or unpaid placements. WBL experiences can be a capstone course for all Career and Technical Education programs of study. WBL is open to 11th and 12th grade students who have earned a minimum of 2 credits in a CTE program of study.

Resource Program- Academic

Enrollment in these courses is by teacher placement only.

English Language Development: A recommendation is required

(1 credit)

MJHS Code: ELD09 TN Code: G22H00

Grade Level: 9

The ESL curriculum is a general set of English language acquisition standards that should be used in conjunction with content standards. These standards address the language support necessary to enable the English Learner (EL) to access the grade level content curriculum by providing a bridge for ELs to the academic content curriculum.

Fundamental English 1 -

(1 credit)

MJHS Code: SPEN1FY TN Code: G01H09

Grade Level: 9

This course is for students who required individualized instruction in reading, writing, and language arts. This course serves as the introduction to English 1 and focused on challenging students to improve their academic performance and understanding of basic principles of grammar and usage and to increase vocabulary skills. Text analysis will center on examining the structure, purpose, and central ideas of a passage. Writing assignments will emphasize constructing various types of quality sentences while improving organization, content, and style in expository, argumentative, and narrative writing.

English 2 - (1 credit)
MHS Code: SPEN2FY TN Code: G01H10

- **Grade level: 10**
- **NCAA Eligibility Qualifying Course**

This course is for students who require individualized instruction in reading, writing, and language arts. This course serves as an extension of English 1 and focuses on challenging students with nonfiction passages, a variety of literature, and enhanced writing expectations. Students will work to improve their understanding of the basic principles of grammar and usage and to increase vocabulary skills. Text analysis will center on examining the structure, purpose, and central ideas of a passage. Writing assignments will emphasize constructing various types of strong sentences while improving organization, content, and style in expository, argumentative, and narrative writing.

English 3 - (1 credit)
MHS Code: SPEN3SS TN Code: G02H11

- **Grade level: 11**
- **NCAA Eligibility Qualifying Course**

This course is for students who require individualized instruction in reading, writing, and language arts. This course serves as an extension of English 2 and focuses on challenging students with nonfiction passages, a variety of American Literature, and enhanced writing expectations. Students will work to improve their understanding of the basic principles of grammar and usage and to increase vocabulary skills. Text analysis will center on examining the structure, purpose, and central ideas of a passage. Writing assignments will emphasize constructing various types of strong sentences while improving organization, content, and style in expository, argumentative, narrative, and research writing.

English 4 - (1 credit)
MHS Code: SPEN4FS TN Code: G02H13

- **Grade level: 12**
- **NCAA Eligibility Qualifying Course**

This course is for students who require individualized instruction in reading, writing, and language arts. This course continues to address the essential reading, writing, and language skills necessary in assisting students in becoming independent learners, as well as, preparing them for postsecondary school, training, or work. This course will continue to challenge students with nonfiction passages, exposure British Literature, and enhanced writing expectations. Text analysis will center on examining the structure, purpose, and central ideas of a passage. There will be an emphasis constructing various types of written assignments that address the needs of students in a variety of post-secondary settings.

Fundamental Algebra 1A - (1 credit)
MJHS Code: SPALAFY TN Code: G02H03

- **Grade Level: 9**

This course is the introduction to algebraic thinking and reasoning skills using problem-solving situations, physical models, math practices, and mathematical literacy. Emphasis is placed on preparing students for Fundamental Algebra 1 B.

Fundamental Algebra 1B - (1 credit)
MHS Code: SPALBFY TN Code: G02H04

- **Prerequisite: Fundamental Algebra 1A**
- **Grade level: 10**
- **NCAA Eligibility Qualifying Course (.5 unit)**

This course is an extension of Fundamental Algebra 1A. Students continue to develop algebraic thinking and reasoning skills using problem situations, physical models, and appropriate technology. Emphasis is placed on preparing for the TN Ready assessment.

Fundamental Geometry A - (1 credit)

MHS Code: SPGEAFS TN Code: G02H14

- **Grade level: 11**
- **NCAA Eligibility Qualifying Course (.5 unit)**

Students in this course will analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships. Emphasis will be given to the use of visualization, spatial reasoning, and geometric modeling as students develop competencies needed for successful mastery of geometric skills. This course satisfies the prerequisite for Fundamental Geometry B.

Fundamental Geometry B - (1 credit)

MHS Code: SPGEBFS TN Code: G02H15

- **Prerequisite: Fundamental Geometry A**
- **Grade level: 12**
- **NCAA Eligibility Qualifying Course (.5 unit)**

This course extends concepts from Fundamental Geometry A and is designed as a course sequence completion for students satisfying math requirements. Students will continue to develop competencies associated with geometric relationships as needed for success. Students will take the TN Ready Assessment in Geometry at the conclusion of this course.

Biology A - (1 credit)

MHS Code: SPBIAFS TN Code: G03H06

Biology A is a laboratory survey course that focuses on fundamental biological principles. Students will explore diversity of life, flow of matter and energy, and biological evolution, and biodiversity. Laboratory investigations will be stressed and used to supplement the academic information. This course satisfies the prerequisite for Biology B.

Biology B - (1 credit)

MHS Code: SPBIBFS TN Code: G03H07

- **Prerequisite: Biology A**

Biology B provides further experience in laboratory investigations of the diversity of living organisms. Students will explore biological concepts in the context of cell biology, photosynthesis and respiration, genetics, heredity, and ecology. Laboratory investigations will be stressed and used to supplement the academic information. Students will take the TN Ready Assessment in Biology at the conclusion of this course.

Study Skills - (1 credit)

MHS Code: SPCASSS TN Code: S25X27

This course provides college bound students the opportunity to earn elective credit while applying study skills and strategies to their high school course work. Emphasis is given to teaching students to manage time effectively and efficiently. Specific strategies for improving organization, goal setting, motivation, and test taking techniques are presented to equip students for success in the general curriculum. Also included within this curriculum is a focus on transition planning to address students' post-secondary goals, with an emphasis on self-advocacy skills.

Functional English - (1 credit)

MHS Code: SPFENTY TN Code: S01H04

Students in this course will be addressing essential reading, writing, and language skills needed to assist students in becoming independent learners in school, functional readers in the workplace, and leisure readers in their daily lives.

Functional Math -**(1 credit)****MHS Code: SPFMATY TN Code: S02H04**

Students in this course will have the opportunity to utilize mathematic skills in daily living situations. A practical application of math will cover basic calculation and thinking skills needed to solve daily challenges involving math.

Wellness, Physical Education, and Driver Education

An additional 0.5 credit of physical education is required for graduation. The additional 0.5 credit in Physical Education may be met by completing a Physical Education course (in addition to Lifetime Wellness) or by participating in a sport or activity (65 hours) sponsored by a MHS faculty member.

Driver Education -**(.5 credit)****MHS Code: PEDE1SS TN Code: G08H03**

Seniors and juniors will be given priority in selecting Driver Education as a course request. Sophomores will be considered, as space is available. Driver Education is a two-phase course consisting of classroom and behind the wheel instruction. It is designed to develop proficiency in skills and techniques, proper procedures, good attitudes, knowledge and respect of traffic laws, and defensive driving techniques. Special emphasis is placed on driver safety and energy conservation. This course meets many insurance companies' requirements for driver education discounts.

*Driver's Education and Physical Education will be delivered on an A/B schedule. Students will have to have another A/B course to pair with it to be fully scheduled.

Lifetime Wellness –**(1 credit)****MJHS Code: PEW90 TN Code: G08H02**

- **Grade Level: 9**

Ninth grade wellness is divided into two categories, physical education and classroom instruction. Wellness is a lifelong process of positive lifestyle management that seeks to integrate the emotional, social, intellectual, and physical dimensions of self for a longer, more productive, and higher quality life. In this the course students will be exposed to the Seven Strands of Wellness. Classroom instruction will be reinforced by activities in the gymnasium. Wellness is a number/letter graded course.

Physical Education-**(.5 credit)****MHS Code: PEFTFSB TN Code: G08H01**

A fee will be charged for this course. Students are able to earn multiple credits in this course during their three years of high school.

Students will have a variety of options to choose from at the beginning of the term and will be placed in the specific class they select. Included in these choices, but not limited to, will be the connection between the ability to perform basic skills and attain fitness through activities that are enjoyable. Basic activities will include, 9-square, a variety of fun games, and walking.

Also, Strength & Conditioning is an option, which includes training for power, strength and explosion, or endurance, depending on the needs of the student. In addition there will be running programs for the development of speed and/or aerobic endurance. Students will gain knowledge of proper training techniques, plyometrics, flexibility, goal setting, motivation, social interaction, and safety in the weight room.

Another option will be a variety of team sport activities such as, Volleyball, Softball, Frisbee Golf, Soccer, Basketball and Games. Students will gain knowledge in setting up, organizing and playing tournaments, skill development, concepts and application of officiating, and care of equipment. Students will gain knowledge of teamwork, rules, safety, social interaction, leadership skills, and the nature of competition.

Sports Performance-**(.5 credit)**

MHS Code: PESPSY TN Code: G08H01

- **PE teacher recommendation required**

Sports Performance is a class focused on training student-athletes that participate in extra-curricular sports, both school sponsored and non-school sponsored. The focus will be to prepare the athlete for their respective sport through the use of strength and conditioning methods that are sport-specific and tailored to meet the body's energy demands for that sport. This class is reserved completely for student-athletes only.

ADDENDUM

1. GPA Quality Points amended 1/23/19:

Previous Draft: Assigned quality points above 4.0 are not allowed for determining eligibility for the lottery scholarships. Quality Points will be awarded based on successful completion of the course work and the student sitting for the associated exam. If the student fails to sit for the associated exam, the additional quality point will be adjusted.

2. Physics 1 Prerequisites and Grade Level amended 1/23/19:

Previous Draft:

Physics 1 CP

(1 credit)

MHS Code: SCPHYSS TN Code: G03H20

- **Prerequisites: Chemistry 1 and Algebra 2**
- **Grade Level: 11-12**