



SCHOLARS PREP GUIDE

2026-27

Class of 2027

Class of 2028

Class of 2029

Class of 2030

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**Maryville Junior High School
2026-27 School Year
8th Grade Placement Criteria**

Language Arts			
Course	2025-26 TNReady ELA Percentile	EOC English II Projected Percentile	iReady Benchmark ELA Performance Level
Honors	80-99	80-99	Mastered
CP	1-79	1-79	Below to On-Track

Mathematics			
Course	2025-26 TNReady Math Percentile	EOC Algebra II Projected Percentile	iReady Benchmark Math Performance Level
Algebra 1	80-99	80-99	Mastered
CP	1-79	1-79	Below to On-Track

Science		
Course	2025-26 TNReady Science Percentile	ACT Science Projected State Percentile
Honors	79-99	79-99
CP	1-78	1-78

Social Studies		
Course	2025-26 TNReady Social Studies Percentile	ACT Reading Projected State Percentile
Honors	79-99	79-99
CP	1-78	1-78

Maryville Junior High School
2026-27 School Year
9th Grade Placement Criteria

Language Arts			
Course	2025-26 TNReady ELA Percentile	EOC English II Projected Percentile	TE21 Benchmark ELA Performance Level
Honors	80-99	80-99	Mastered
CP	1-79	1-79	Below to On-Track

Mathematics			
Course	2025-26 TNReady Math Percentile	EOC Algebra II Projected Percentile	TE21 Benchmark Math Performance Level
Geometry Honors	80-99	80-99	On Track or Above (CASE Alg. 1)
Geometry CP	80-99	80-99	Approaching or Below (CASE Alg.1)
Algebra 1 CP	Any student not enrolled in 8th grade Algebra 1		

Science			
Course	2025-26 TNReady Science Percentile	ACT Science Projected State Percentile	TE21 Benchmark Science Performance Level
Biology Honors	79-99	79-99	Mastered
Biology CP	40-78	40-78	Below to On-Track
Env. Science CP	1-39	1-39	Approaching or Below

Social Studies			
Course	2025-26 TNReady Social Studies Percentile	ACT Reading Projected State Percentile	TE21 Benchmark Social Studies Performance Level
Honors	85-99	85-99	Mastered
CP	1-84	1-84	Below to On-Track

Maryville City Schools
Minimum Graduation Requirements

Required Courses	Grade Taken	27 Required Credits
English 1, 2, 3, 4	9-12	4 Credits
Math *1	9-12	4 Credits
Science *2	9-12	3 Credits (+1)
Lifetime Wellness	9	1 Credit
World Geography/History	9	1 Credit
Computer Science Required starting with 2024-25 cohort	9-10	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	3 Credits

*1 All students are required to complete a mathematics course sequence including Algebra 1, Algebra 2, Geometry, and one additional mathematics course.

*2 All 9-12 students are required to complete four science credits. 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, 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 will be taken as an online class in conjunction with AP Economics only.

*8 Students taking part in early graduation based on the Move on When Ready Act must meet all state requirements and complete the online form.

Starting with the 2024-25 cohort, a Computer Science credit will be required for graduation.

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.

Industry 4.0 Diploma Distinction

Students who are interested in pursuing a career in a high-need, high skill industry after graduation may earn this distinction. For a student to receive this distinction, the students must participate in monthly career counseling and enroll in work-based learning or dual enrollment coursework in their 11th and 12th grade year. Before the end of the student’s 10th grade year, the student and parent must submit documentation stating the student’s intent to pursue an Industry 4.0 Distinction.

College and Career Readiness

College and Career Readiness “CCR” 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 “CCR” status by meeting one of five criteria:

- 1) Achieving an ACT composite score of 21 or higher
- 2) Achieving an ASVAB score of 31 or higher
- 3) Earning a Tier 3 Industry certification
- 4) Earning a Tier 3 Industry certification plus one more Industry certification
- 5) Earning one or more Early Postsecondary Opportunities (EPSOs) by: earning a 3 or higher on an AP exam, earning a 50 or higher on a CLEP test, earning Dual Enrollment or Local Dual Credit, or obtaining credit through an SDC test.

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; Humanities; Math and Science; Advanced Placement and Dual Enrollment.

Students are expected to select an elective focus at the conclusion of their 10th grade year.

Fine Arts

In addition to one credit required for graduation.

Advanced Mixed Chorus

AP Studio Art/Drawing

AP Studio Art/3D

AP Studio Art/2D

AP Seminar

Senior Transition

Band (Instrumental Music-Band-MJHS)

Clay & Ceramics

Theatre 1 (Theatre Arts 1 Intermediate-MJHS);

Theatre 2 Play Production, Technical Theatre,

LDC Theatre 2

Musical Theatre

Drawing

Female Chorus – MJHS

Art 1 (Visual Art 1-MJHS)

AP Art History

Male Chorus – MJHS

Fall Chorus

Spring Chorus

Music Theory

Orchestra (Instrumental Music-

Orchestra-MJHS)

Painting

Studio Art/Digital Photography

Crafts

Fiber Arts

Printmaking

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 49 for details.

Apprenticeship opportunities are available for students completing at least 2 levels of CTE coursework through the Tennessee Valley Youth Apprenticeship program. Current participating programs include Culinary, Construction, Health Science, Manufacturing, and Information Technology. For current job postings and additional information, visit the [TVYA webpage](#).

Humanities

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

Ancient History
AP European History
AP Human Geography (MJHS & MHS)
Contemporary Issues
Journalism—Yearbook (MJHS & MHS)
AP Psychology
Spanish 1, 2 (MJHS & MHS), 3H, 4H, AP
African American Studies
Tennessee History
Sociology Honors
AP World History

Leadworthy 1, 2, 3
French 1, 2 (MJHS & MHS), 3H, 4H, AP
American Sign Language 1, 2, 3H
Dual Enrollment Courses related to focus
AP Seminar
Senior Transition
AP Research
Peer Tutoring (MJHS & MHS)
Film and Visual Media Studies

Math and Science

In addition to credits required for graduation.

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

Physics 1
AP Physics 1
AP Physics 2
Wildlife Principles
Plant and Animal Diversity
Astronomy
Chemistry 2H
Dual Enrollment Courses related to focus area

Advanced Placement

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 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
AP World History
AP Career Kickstart: Cybersecurity I

Dual Enrollment

3 approved dual enrollment courses

State Test Out Option

Students in grades 9-12 are provided the opportunity to test out of certain graduation requirements by earning a passing score on a comprehensive credit exam prior to enrolling in the class. Testing out is an opportunity for students to earn credits for material they may already have a strong foundation in, without having to take the actual course for a semester or school year.

- District test outs are available for current students or students that have registered to attend MJHS or MHS.
- Passing the test places students at the next level of the subject area, if applicable.
- Passing is determined by a score of 85% or higher. The grade earned will become the grade reported on the transcript and included in the student’s GPA.
- A student earning a score of 85-89 will be reported as a “B” on the student transcript. A student earning a score of 90-100 will be reported as an “A” on the student transcript.
- Should a student not reach a passing score, he/she will be required to take the course during the school year.
- Students may only take a credit exam once per course.
- Students may earn up to 4 graduation credits through the test out process.

To test out you must first register to take the test. There are two registration periods, one in the winter and one in the spring. The chart below identifies the courses for which a credit exam will be given, as well as other important information. This information can also be found on our school website.

Winter Registration Window: November 6-20, 2026. Link to Register: [26-27 SY Winter Registration for Test Out Opportunity – Fill out form](#)

Spring Registration Window: April 9-23, 2027. Link to Register: [26-27 SY Spring Registration for Test Out Opportunity – Fill out form](#)

Subject	Winter Test Date	Spring Test Date	Time	Location	Comments
English 4	12/5/26	5/1/27	9am-12pm	MHS Library	3 part test - MC, Essay, and Speech
PreCalculus CP (not SDC)	12/5/26	5/1/27	9am-12pm	MHS Library	Bring Calculator, pencils
World History and Geography	12/5/26	5/1/27	1-4pm	MHS Library	
Economics	12/5/26	5/1/27	1-4pm	MHS Library	
Personal Finance	12/5/26	5/1/27	1-4pm	MHS Library	
Anatomy and Physiology	12/5/26	5/1/27	1-4pm	MHS Library	
French 1	12/5/26	5/1/27	9am-12pm	MHS Library	Two part test - written and verbal
Spanish 1	12/5/26	5/1/27	9am-12pm	MHS Library	Two part test - written and verbal
American Sign Language 1	12/5/26	5/1/27	9am-12pm	MHS Library	Two part test - written and verbal

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.

Selection Criteria for Academic Honor Distinctions

Maryville Junior High School Dean's List

Students at MJHS can earn placement on the Dean's List each semester by achieving all A's in their coursework and demonstrating exemplary behavior. This prestigious recognition highlights their academic excellence and commitment to personal growth. Semester 1 Dean's List of students will be recognized at a reception at MJHS in January. Students who meet the Dean's List requirements for the entire year will earn the opportunity to attend a field trip in May.

Maryville High School Honor Roll

Selection of students will be based on the following requirements:

- 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

National Honor Society

The C. D. Curtis Chapter of the National Honor Society is composed of sophomores, juniors and seniors who have shown outstanding leadership, service, character, and scholarship. Sophomores and/or 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 10 service hours each semester of club enrollment as a National Honor Society member. 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 gold award for 75+ hours of service and a platinum award for 100+ hours of service.

National Honor Society Criteria

1. A sophomore, junior or senior must have one complete term of grades at MHS at the time of selection
2. May have no course grade below C
3. May not have any out-of-school suspensions

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 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, fifteen seniors and fifteen 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.

Bonus point Calculations:

- All AP Courses earn one (1) quality point.
- All DE and SDC courses earn 0.75 quality points.
- All LDC, Honors Courses, and earned Industry Certifications earn 0.50 quality points.

Please refer to the individual course descriptions to determine the quality points assigned to each course.

Maryville Scholars Criteria

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
3. Must take at least 4 bonus point courses in grades 11 and 12
4. May have no course grade below C
5. May not have any out-of-school suspensions.

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 = 90-100 B = 80-89 C = 70-79 D = 60-69 F = 59 and Below

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 Junior High School

Students may take credit bearing courses in 8th grade: Algebra 1 and Foreign Language. Algebra 1 is a letter graded course and will be factored in the student's GPA. The foreign language course is Pass (P) or Fail (F) and will not be factored into a student's GPA. These course will appear on a final high school transcript.

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) and College Level Exam Program (CLEP) 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.

Students participating in their third and fourth years of Band, Chorus, Orchestra and Theatre will receive honors level credit for their coursework in these content areas during their junior and senior year. Each semester, directors of these programs will provide the list of students earning the honors credit to the counseling department to ensure the honors level criteria is utilized to calculate their overall GPA.

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: $\text{Classwork } [(88+5)3 + \text{EOC Exam } (90+5)] / 4 = 93.5$ 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 Scholar's Prep Guide.
- 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 Classes

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.

GRADE	VALUE	REGULAR	HONORS/LOCAL DUAL CREDIT/INDUSTRY CERTIFICATION	STATEWIDE DUAL CREDIT	AP/IB/Dual Enrollment
A	90-100	4	4.5	4.75	5
B	80-89	3	3.5	3.75	4
C	70-79	2	2.5	2.75	3
D	60-69	1	1.5	1.75	2
F	0-59	0	0	0	0

If the institution provides only a letter grade rather than a numeric 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	65
F	55

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

The cost of the CLEP exam is \$97. You may be advised by your teacher to complete digital coursework that upon completion would provide a free voucher for the exam. Please see <https://clep.collegeboard.org/clep-college-credit-policy-search> so students can access the CLEP policy of their desired college.

**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 his/her GPA may apply for a P designation upon earning an A for his/her 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 by the end of the first 9 weeks of the semester.

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 consent for the student to enroll in the proposed credit recovery course.
2. The student has previously taken an initial, noncredit 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 retake the course.

If a student is seeking to recover credit for the first semester of a two (2)-semester course (MJHS), 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 sixty percent (60%). 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

Maryville Junior High School 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 must take place prior to Labor Day through a collaborative process to include students, parents, and teachers. After that time, level changes will only take place through a collaborative process with administrative approval.

Maryville High School Policy

The Master Schedule is created based on student course recommendations from teachers and student elective requests received during annual registration each spring. Students' schedules are considered finished after the spring schedule verification process is complete. MHS schedules will be reviewed for adjustment upon request within the **first five days** of the fall term for students who are academically overloaded or misplaced in a course.

A request for changing an elective course in the first 5 days of a term will be considered based on seats available and section balancing. Changes in level will only take place prior to the end of the first quarter of the term (first 4.5 weeks) with administrative approval that includes a collaborative process with the student, parent, teacher, and school counselor. **Requests for withdrawal from a class after the first 4.5 weeks of the term, if approved, will result in a grade of "WF."**

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 school counselor.

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.
- 4)Complete and return the request form which can be provided by the school counselor.

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.

Athletic Eligibility

To be eligible to participate in athletic contests at Maryville High School, a student must earn five 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](#)

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 first or second 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 Statistics
AP Calculus AB
AP Calculus B

Science:

AP Biology
AP Chemistry
AP Computer Science
AP Environmental Science
AP Physics 1
AP Physics 2

English:

AP English 3 Language
AP English 4 Literature

World Language:

AP French
AP Spanish

Cross-Curricular:

AP Seminar
AP Research

Social Studies:

AP Economics
AP European History
AP Government
AP Human Geography*
AP Psychology
AP U.S. History
AP World History

Fine Art:

AP Art History
AP Music Theory
AP Studio Art Drawing
AP Studio Art 2-D, 3-D

Dual Enrollment Programming

Dual Enrollment

Students who have ACT sub-scores of 19 or higher and a composite of 19 or higher, along with an unweighted 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 and Pellissippi State Community College. Students who meet the qualifications will be eligible for five (5) \$540.00 scholarships during their final two years of high school. This scholarship is provided through the Tennessee Student Assistance Corporation. Students wishing to pursue college credit courses must meet several criteria:

- A score of 19 or higher on all ACT sub-scores and composite
- Unweighted 3.0 G.P.A.
- Students with a 3.6 unweighted GPA are exempt from entrance testing, except in high level math and science courses.
- Completion of Maryville High School Dual Enrollment Registration Application
- Admission into college by completing college application (found on college website)
- Completion of Dual Enrollment Grant Application

- G. Completion of Immunization Waiver
- H. Payment of college tuition
- I. Transportation to college courses
- J. Purchase of college textbooks
- K. To maintain the Dual Enrollment Lottery Scholarship, students must maintain a 2.0 G.P.A. in their college courses

If students enrolled in college courses take these classes on the college campus, students must follow the 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. These courses may have different admissions requirements. For additional information, please refer to Career and Technical course descriptions.

Dual Enrollment Grading Policy

Maryville High School will add four percentage points for a dual enrollment course taken by a student at an institute of higher education (IHE) according to the uniform grading policy. If the institution provides only a letter grade rather than a numeric 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	65
F	55

In some instances a student may request to withdraw from a Pellissippi or Maryville College course prior to the college’s withdrawal deadline. **Please note: Requests for withdrawal from a class (college or high school level) after the first 4.5 weeks of the MHS term, even if, if approved by MHS Administration, will result in a grade of “WF” on the MHS transcript and will configure into the overall GPA calculation.**

Local Dual Credit

Maryville City Schools has partnered with Pellissippi State Community College (PSCC) to provide 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. Students will register by completing the online registration form provided by the MHS/MJHS teacher. Students can pay online or in person. (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 transcript.

PELLISSIPPI STATE

MHS students who have ACT subscores of 19 or higher (an 18 in English, a 19 in Reading, or a 19 or higher for math or science course), along with an unweighted 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 1010 (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. (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 1020 (1 credit) **MHS Code: ENPS1DS 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. (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 (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 (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 that often conflicts with the MHS schedule. This course requires the purchase of a textbook.

DE Calculus 1830 (1 credit) **MHS Code: MACA2DS TN Code: G02H51** • **Prerequisite: Pre-Calculus 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 Stats 1530 (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 21 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

(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.

DE English Composition and Speech II 120

(1 credit)

MHS Code: ENE2MDS TN Code: G01H31

- Prerequisite: English 110 or placement into the course

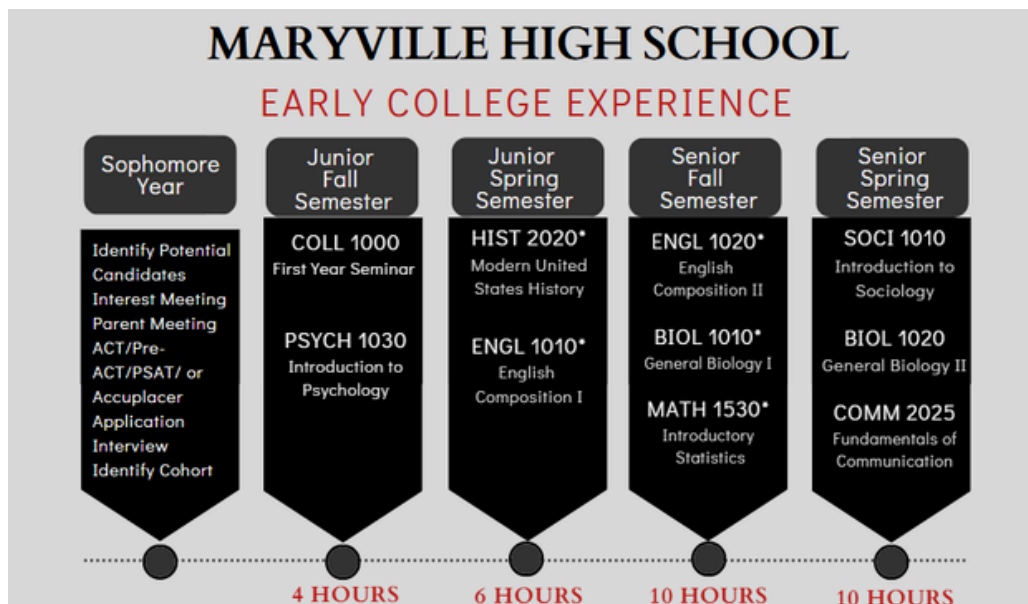
DE English Composition and Speech II 120 hones students' skills in writing and speech, with particular emphasis on strategies and sources appropriate for academic and professional work. It also provides instruction in argumentation and library research that supports students' completion of an extended researched argument as well as multiple shorter writing assignments and presentations.

Maryville Early College Experience

The **Early College Experience** is a dual enrollment pathway allowing students to earn 30 hours of college credit during their **junior and senior** years while remaining connected to Maryville High School. The classes for this program are predetermined between MHS and Pellissippi State to provide an experience where students take general education requirements that are reciprocated with state colleges and apply to most majors.

This opportunity takes advantage of the Dual Enrollment Grant and a scholarship offered by Pellissippi State to cover tuition for all students who are accepted into the program. Student candidates must meet GPA requirements, teacher recommendation, ACT/Pre-ACT/SAT/PSAT/Accuplacer scores to be eligible. A student who is accepted into the program will follow the course sequence on the next page.

Students who wish to enroll in differing coursework would do so under the traditional dual enrollment format. They would not be a part of this program and thus not eligible for the Pellissippi State scholarship associated with the Early College Experience.



Workforce Development Center at Pellissippi

The Workforce Development Center is located on the Blount County Pellissippi Campus and houses dual enrollment programming for both Pellissippi State Community College (PSCC) and Tennessee College of Applied Technology (TCAT). Additional program information for both schools can be found at the end of the Scholar's Prep Guide.

Pellissippi Dual Enrollment Programs

CIT AAS in Networking or Cyber Defense

DE Intro to Programming and Logic - CITC 1301

(1 credit)

MHS Code: CTNETW1 TN Code: C10H02

This course is an introduction to the logic necessary for application programming. Topics include logic analysis, techniques of structured design, process flow and object-oriented concepts. A programming language will be used to teach data types, variables, control structures, methods and arrays. This course will present a broad overview of the past, present and potential future applications and implications of computer information technology.

DE A+ Hardware CITC 1321

(1 credit)

MHS Code: CTNETW2 TN Code: C10H29

This course provides an introduction to basics of computer hardware. Topics include identification and installation of internal components, disk configuration, ports, cables, peripherals and networking concepts and connections.

DE A+ Software - CITC 1322

(1 credit)

MHS Code: CTNETW3 TN Code: C10H36

Corequisite: CITC 1321

This course introduces personal computer (PC) operating systems and key utilities, PC-based local area network software and software security concepts used in the PC environment. Topics include Microsoft Windows client edition (currently Windows 10), Linux, Apple Mac OS and other used on PCs and portable devices. The course examines and requires the practice of operating systems installation, operations, maintenance, features and security measures to prevent OS disasters and recovery for damaged systems.

DE Introduction Networking - CITC 1302

(1 credit)

MHS Code: CTNETW4 TN Code: C10H37

Pre-requisite: CITC 1301

Corequisite: CITC 1102

A broad-based course that provides an overview of computer networking. Topics include network models, protocols and services, media and topologies, devices and tools, network management and network security. This course may align with the outcomes of industry certification.

DE Database Concepts - CITC 1303

(1 credit)

MHS Code: CTTECH1 TN Code: C21H01

Prerequisites: CITC 1301

An introduction to the concepts and syntax of relational database management systems. Topics include data modeling, database design concepts, tables and queries and other database objects using the tools provided in a relational database management system (DBMS). Database administration, security and performance concepts will be introduced.

DE CIT AAS in Hospitality Management

DE Sanitation and Food Safety - CULA 1300

(1 credit)

MHS Code: CTCULA1 TN Code: C16H01

This critical class focuses on the many procedures and techniques to run a safe and sanitary kitchen. Students learn to identify food susceptible to hazardous microorganisms and gain insight into purchasing, storage, preparation and serving procedures that promote food safety. Successful completion of this class requires receiving the ServeSafe certification. A student with ServeSafe certification may not need to take this course.

DE Introduction to Hospitality - HMG1030**(1 credit)****MHS Code: CTHMG1 TN Code: C16H02**

This course is an introduction to the hospitality industry, with emphasis on the broad spectrum of hospitality organizations and career opportunities. Topics include the structure of lodging food service, tourism organizations, the role of lodging departments and the future of the industry.

DE Computer Applications - INFS 1010**(1 credit)****MHS Code: CTTECH2 TN Code: C21H12**

A computer literacy course introducing personal computers and computer applications software used in business. Emphasis is on developing computer operation skills using a basic operating system and Word, Excel and Access (Microsoft Office) software applications.

DE Professional Catering - CULA 2350**(1 credit)****MHS Code: CTCULA2 TN Code: C16H14****Corequisite: CULA 1300**

This course examines the requirements to start and operate a catering company. Topics of discussion include kitchen equipment, regulations, operations and business planning.

Electrical Engineering Technology - Electronics Certificate and Industrial Automation Certificate**DE Intro to Electrical Engineering Tech - EETC 1300****(1 credit)****MHS Code: CTENGR1 TN Code: C21H00**

This course provides an introduction to the electrical engineering technology discipline.

DE DC Circuits - EETC 1313**(1 credit)****MHS Code: CTENGR2 TN Code: C21H11****Corequisite: Math 1050**

This is an introductory course in DC circuits.

DE AC Circuits - EET 1314**(1 credit)****MHS Code: CTENGR3 TN Code: C21H41****Prerequisite: EETC 1313**

This course provides an introduction to AC circuits.

DE Electronics I - EETC 1321**(1 credit)****MHS Code: CTENGR4 TN Code: C21H42****Prerequisite: EETC 1313**

An introductory course in solid-state devices.

DE Digital Fundamentals - EETC 1331**(1 credit)****MHS Code: CTTECH3 TN Code: C21H43**

This is an introductory course in digital logic systems.

DE CAD for Electronics - ENST 1313**(1 credit)****MHS Code: CTTECH4 TN Code: C21H44**

This course provides an introduction to the use of CAD software for making electronic drawings.

DUAL ENROLLMENT OPPORTUNITIES AT TCAT KNOXVILLE

The Tennessee College of Applied Technology Knoxville was established in 1963 by enactment of the General Assembly as part of a statewide system of 26 schools whose purpose is to provide work specific training to prepare citizens for employment. The Tennessee College of Applied Technology Knoxville designs and offers programs that are responsive to local business and industry needs.

The Tennessee College of Applied Technology Knoxville main campus is located at:

Main Campus
1100 Liberty Street
Knoxville, TN 37919
865-546-5567

COSMETOLOGY

The Cosmetology program provides the student with basic theory and clinical knowledge of the beauty industry through the use of approved textbooks, classroom instruction, and practical application with mannequins and live models. Upon successful completion of 1,500 hours of training, students are prepared to take the TN Board of Cosmetology licensing exam.

DE Cosmetology I (1 credit)

MHS Code: CTCOSM1 TN Code: C19H04

DE Cosmetology II (1 credit)

MHS Code: CTCOSM2 TN Code: C19H23

DE Cosmetology III (1 credit)

MHS Code: CTCOSM4 TN Code: C19H27

DE Cosmetology IV (1 credit)

MHS Code: CTCOSM4 TN Code: C19H28

AUTOMOTIVE COLLISION REPAIR TECHNOLOGY

If you have a love for cars, a steady hand and an eye for detail, you might find a career in Collision Repair. The Collision Repair Technology is designed to introduce and train the student to analyze and estimate vehicles for repairing vehicles to pre accident condition. During the training students will learn how to operate hand tools, power tools, welders and shop equipment used in the collision trade. With this training; students will learn how to repair dents in sheet metal, repair composite materials, measure and pull frames, collision mechanical and refinish vehicles using spray equipment bringing the vehicle to pre-accident condition.

The Collision Repair Technology program is a National Automotive Technicians Education Foundation (NATEF) certified program and is approved by the National Institute for Automotive Service Excellence Education Foundation (ASEEF). ASEEF offers five certification areas in the Collision trade.

DE Automotive Collision Repair Technology 1 (1 credit)

MHS Code: CTAUTO1 TN Code: C20H02

DE Automotive Collision Repair Technology 2 (1 credit)

MHS Code: CTAUTO2 TN Code: C20H23

DE Automotive Collision Repair Technology III (1 credit)

MHS Code: CTAUTO32 TN Code: C20H24

DE Automotive Collision Repair Technology IV (1 credit)

MHS Code: CTAUTO4 TN Code: C20H31

TCAT Dual Enrollment Programs at the Workforce Development Center

WELDING

The Welding Technology program prepares the student for certification in a variety of welding techniques and processes. Students begin doing basic welding beads and progress step-by-step to achieve the final goal of pipe welding. Progression is monitored and mastery of each technique is achieved by a combination of classroom, individual, and text book instruction. Graduates of the Welding program will be able to demonstrate competencies in flame cutting, electric ARC welding, gas tungsten, gas metal ARC welding, and flux-cored ARC welding processes. Students will need to provide their own steel-toed boots, welding hood, jacket, gloves and textbooks.

DE Welding I (1 credit)

MHS Code: CTWELD1 TN Code: C13H03

DE Welding II (1 credit)

MHS Code: CTWELD2 TN Code: C13H18

DE Welding III (1 credit)

MHS Code: CTWELD3 TN Code: C13H38

DE Welding IV (1 credit)

MHS Code: CTWELD4 TN Code: C13H39

MACHINING TECHNOLOGY

The Machine Tool Technology program develops basic skills in machine tool operations and provides experience on a variety of machine tools such as lathes, milling machines, computer numerical control (CNC) machines, and the CAD-CAM. Related math, blueprint reading, precision measuring, basic metallurgy, and heat treating are included. Graduates of the Machine Tool Technology program will be able to operate the lathe, milling machines such the CNC machine, surface grinders, and perform heat treating operations.

DE Machining Technology I (1 credit)

MHS Code: CTMATEC1 TN Code: C13H01

DE Machining Technology II (1 credit)

MHS Code: CTMATEC2 TN Code: C13H20

DE Machining Technology III (1 credit)

MHS Code: CTMATEC3 TN Code: C13H34

DE Machining Technology IV (1 credit)

MHS Code: CTMATEC4 TN Code: C13H35

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

**Note: Eighth grade students will not receive high school credit unless notated in course description.*

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, 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

- **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. This course is a letter graded course and will be calculated into the student's GPA. With approval from the MJHS principal, a student may repeat Algebra 1 Honors and there will be no record of the course taken prior to grade 9.*

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 core scientific ideas. The course is organized by studying the following units: Electricity and Magnetism, Waves, the Universe and Gravity, Plate Tectonics and Geology, Biological Change, and Newton's Laws. Students will be expected to participate in hands-on laboratory activities, be familiar with scientific vocabulary and readings, and show their knowledge through various classroom projects. Students will be expected to demonstrate mastery by standards based grading in Mastery Connect.

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 core scientific ideas. The course is organized by studying the following units: Electricity and Magnetism, Waves, the Universe and Gravity, Plate Tectonics and Geology, Biological Change, and Newton's Laws. Students will be expected to participate in hands-on laboratory activities, be familiar with scientific vocabulary and readings, and show their knowledge through various classroom projects. Students will be expected to demonstrate mastery by standards based grading in Mastery Connect. This course will take an accelerated and in-depth approach to prepare for honors biology.

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 settlement of North America and the role geographic features played in the early settlement of Thirteen Colonies. Students will examine the development and maturation of the Thirteen Colonies and the political, cultural, and economic influences that led to the American Revolution. Students will analyze the major events and outcomes of the American Revolution as well as the individuals who 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. Students will analyze the impact of the expansion and sectionalism of the U.S., including implications on domestic and foreign policy. Students will also study policies that affected American Indians and African Americans. Finally, students will examine the major events and issues leading up to the Civil War, individuals and events that were significant during the war, and the resulting era of Reconstruction. Appropriate primary sources and informational texts will be included in order to enhance understanding of the content.

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.

English Language Development: A recommendation is required

MJHS Code: ELD08

The ESL course teaches English language acquisition ELPA standards in conjunction with content standards. These standards provide the language support necessary to enable the English Learner (EL) to access the grade level content curriculum. It also focuses on improving the reading, writing, listening, and speaking skills of EL's in context.

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.

Introduction to Teaching as a Profession

MJHS Code: CTITP TN Code: C32H33

Introduction to Teaching as a Profession is a foundational course in the Teaching as a Profession program of study for students interested in learning more about becoming a teacher, school counselor, trainer, librarian, or speech-language pathologist. Upon completion of this course, proficient students will gain knowledge in the history of education in the United States, careers in education, and the influence of human development on learning. Artifacts will be created for inclusion in a portfolio, which will continue throughout the full sequence of courses.

Instrumental Music - Band

MJHS Code: FABAS

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.

Leadworthy**MJHS Code: CTLE8**

Leadworthy is a leadership course designed for students who wish to build and refine leadership skills. This course focuses on developing the required skills of leadership through an interactive, participatory experience. Classwork may include group activities, guest speakers, presentations, projects and community service opportunities.

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: CTSO**

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 (OnShape) which will be used for 3D drawings and assemblies. They will also work with computer programs which are designed to help with computer maintenance and upgrading.

Student Assistant: Application is required**MJHS Code: SATS8**

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 and Career Advising**MJHS Code: PETLO**

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 invites students to dive into the fascinating world of theatre, offering a comprehensive introduction to its major aspects. Through an emphasis on the foundational principles of acting, theatre terminology, and design, students gain hands-on experience in both onstage performance techniques and backstage craftsmanship. Collaboration is a key focus, with group projects fostering teamwork and independent design assignments encouraging creativity. Perfect for beginners, this class provides a welcoming environment to explore theatre without the pressure of public performances.

Theatre Intermediate**MJHS Code: FATH8**

This course is an advanced level theater course. Interested students must apply and audition to be accepted into the course. The course delves deeper into the major aspects of theatre, focusing more on acting methods and performance. Additionally, students in this course take more of a hands-on role, assisting (building sets, directing, making props, etc.) in the development of the performance produced within the school year. After school performances and scheduled rehearsals are required. A fee will be charged.

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.

Chorus
MJHS Code: FAVMF

This course is appropriate for all 8th-grade chorus students. No vocal audition is required. The course covers the basics of notation 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) in 4 public performances per year. A course fee will be charged.

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

Fine Arts

(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.

CHORAL ARTS

Chorus I: Beginning Chorus
MJHS Code: FACF9 TN Code: G05HA1

(1 credit)

This course is appropriate for all 9th-grade chorus students. No vocal audition is required. The course covers the basics of notation 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) in 4 public performances per year. A course fee will be charged.

Fall Chorus
MHS Code: FACHORF TN Code: G05HA1 Honors: FACHOFH
• **Grade Level: 10-12**

(1 credit)

This course covers beginning to advanced levels of choral singing including music reading, vocal production, and performance. Students in Fall Chorus will participate in the fall and holiday concerts, and have the opportunity to audition for the All-East and All-State Honors Choirs. NO prerequisites, previous experience, or audition is required to request and register for the course. Students who intend to sing in Open Choir (beginning and intermediate-level students) are not required to audition, but students who intend to sing in one of the Upper Choirs (Advanced and Varsity Chorus) must participate in the annual spring audition for placement. A course fee will be charged.

Spring Chorus (1 credit)

MHS Code: FACHORS TN Code: G05HA2 Honors: FACHOSH

- **Grade level: 10-12**

This course covers beginning to advanced levels of choral singing including music reading, vocal production, and performance. Students in Spring Chorus will perform in the festival and Spring Concerts and will also participate in the JB Lyle Choral Festival field trip. No prerequisite, previous experience, or audition is required to request and register for the course. Students who intend to sing in Open Choir (first-time chorus students and intermediate-level students) are not required to audition, but students who intend to sing in one of the Upper Choirs (Advanced and Varsity Choirs) must participate in the annual spring audition for placement.

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. It emphasizes the basic principles of acting, theatre terminology, theatre design, and stagecraft. This course will include various in-class acting opportunities, as well as introduction into technical theatre (props, lights, stage design, etc.). A fee will be charged.

Theatre Arts 1 Intermediate (MJHS) (1 credit)

MJHS Code: FATHI TN Code: G05H16

- **Grade level: 9**

This course is an advanced-level course for students who have taken MJHS Theatre Arts as an 8th grader. Interested students must apply and audition to be accepted into the course. The course delves deeper into the major aspects of theatre and film, focusing more on acting methods and performance. Additionally, students in this course take more of a hands-on role, assisting (building sets, directing, making props, etc.) in the development of the performances produced in the school year. A fee will be charged. After school performances and scheduled rehearsals are required.

LDC Theatre 2 (1 credit)

MHS Code: FADR2SS TN Code: G05H17

- **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 Theatre 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 Honors: FAPLYHH

- **Prerequisite: Theatre 1**
- **Admission is restricted to students who audition (acting) / apply (design) and are admitted.**
- **Grade level: 10-12**

This course is open to students who have successfully completed Theatre 1, LDC Theatre 2 (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. This course may be repeated for up to three credits. Students are expected to pay the cost of their costume rental and/or scripts.

Technical Theatre (1 credit)

MHS Code: FATTHSS TN Code: G05H18

- **Prerequisite: Theatre 1**
- **Grade level: 10-12**

A one-unit course for students who have an interest in developing an overall understanding of the aspects of theatre production. Students will develop skills in lighting, sound, set construction, set painting, props, program/poster design, costuming, makeup, and publicity. All students interested in this course must complete an application process.

Musical Theatre (1 credit)

MHS Code: FAMTRSS TN Code: G05H17 Honors: FAMTRSH

- **Prerequisite: Theatre 1 or Chorus (Minimum Grade B or higher)**
- **Admission is restricted to students who audition (acting) / apply (design) and are admitted.**
- **Grade level: 10-12**

This course offers students the opportunity to study and perform in this genre. The course combines the development of students as actors and dancers, as well as practical vocal training. The curriculum includes production of the school musical and/or a musical revue, study of the evolution of the American musical theatre, and other musical theatre related projects. This course can be taken for multiple credits.

INSTRUMENTAL ARTS

General Band (Instrumental Music-Band-MJHS) (2, 1 credit or ½ credit)

MJHS Code: FAGB9 TN Code: G05H81

MHS Code:

FABNDSS Band - Brass & Woodwinds yearlong A/B day schedule for 1 credit **Honors: FABNDHH**

FABPESS Band - Percussion yearlong A/B day schedule for 1 credit **Honors: FABPEHS**

FABNDSQ Band - 2nd Band class for students interested in taking band every day **Honors: FABNDHQ**

FABGUSA Band - Field Guard (Fall only) - ½ credit (no prerequisite) **Honors: FABGUSH**

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 awarded.

Orchestra/Strings 1-MJHS (2, 1 credit or additional ½ credit)

MJHS Code: FAOS9 TN Code: G05H89

MHS Code:

FAORCSS – Yearlong A/B day schedule for 1 credit **Honors: FAORCHH**

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

FAORCHB

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 awarded..

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.

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.

Crafts

MHS Code(s): TN Code: G05H09

FACFTSS – Semester Class (1 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 dyeing, calligraphy, stained glass, basket weaving, and metal tooling. A materials fee will be charged.

Clay & Ceramics (1 credit)

MHS Code: FACLYSS TN Code: G05HB8

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

This course is a studio course that focuses on creating 3-dimensional projects using clay. 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.

Studio Arts/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: G05HB6

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

This course is a studio course that focuses on the different drawing techniques and materials. 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: FAPAIS TN Code: G05HB4

- **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.

Fiber Arts (1 credit)

MHS Code: FAFIBER TN Code: G05HC6

- **Grade Levels: 10-12**

Explore the vibrant world of fiber and textile arts in this hands-on course. Discover traditional and contemporary techniques such as weaving, dyeing, sewing, knitting, and embroidery while developing your creativity and craftsmanship. Learn how to transform fibers into stunning visual and functional art pieces, understand the cultural significance of textiles, and experiment with color, texture, and pattern. This course encourages problem-solving and artistic expression, preparing you to create unique fiber artworks and appreciate the diverse world of textile traditions. A materials fee will be charged.

Printmaking (1 credit)

MHS Code: FAPRINT TN Code: G05HC4

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

This hands-on art course introduces students to the exciting world of printmaking, where creativity meets technique. Throughout the semester, students will explore various printmaking methods such as relief printing, monoprints, screen printing, lithography, and etching, learning how to create multiple copies of original artwork. A materials fee will be charged.

Graphic Design/Digital Illustration I (1 credit)

MHS Code: FAGDDSS TN Code: C11H06

- **Prerequisite: Art 1**
- **Grade Levels: 10-12**
- **1 industry certification available: Adobe Certified Associate**

This course is a studio course that focuses on the different digital drawing techniques and programs. Students will learn to use Photoshop and Illustrator to design and create artwork such as composited photography, logos, t-shirt designs, as well as fine art drawings. It will explore the use of digital media create artwork. Students will learn how the Adobe Photoshop and Illustrator Programs work and will work to achieve Adobe Certified Associate status in one or both programs. Students that have met the AP Studio 2D requirements for the AP test may submit their final portfolio to the College Board AP credit. A materials fee will be charged.

Graphic Design/Digital Illustration II**(1 credit)****MHS Code: FAGDD2S TN Code: C11H05**

- **Prerequisite: Graphic Design/Digital Illustration I**
- **Grade Level: 10-12**
- **1 industry certification available: Adobe Certified Associate: Illustrator**

Applying design skills developed in prior courses, students will expand their creative and critical thinking skills to create comprehensive multimedia projects and three-dimensional designs. Upon completion of this course, proficient students will be able to use industry-standard software to create multimedia projects, web pages, three-dimensional models, and animations. Students will utilize research techniques to plan and enhance project outcomes. Standards in this course also include professionalism and ethics, career exploration, and business and project management. Students will learn how the Adobe Photoshop and Illustrator Programs work and will work to achieve Adobe Certified Associate status in one or both programs. Students that have met the AP Studio Drawing requirements for the AP test may submit their final portfolio to the College Board for AP credit. 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 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. (Deadline for submitting Studio Art portfolios to the AP Coordinator is in early May.)

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. (Deadline for submitting Studio Art portfolios to the AP Coordinator is in early May.)

English 1 CP**(1 credit)****MJHS Code: LA930 MHS Code: ENG09SS TN Code: G01H09**

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

This course provides a challenging curriculum for both college-bound students and students preparing to enter career and technical education pathways 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 the basic principles of grammar and usage, and strengthening their vocabulary skills. Students will engage in speaking and listening activities to strengthen communication and interpersonal 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, writing, and communication 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**(1 credit)****MHS Code: ENG10SS TN Code: G01H10**

- **Prerequisite: English 1**
- **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. Students will learn different literary terminology and focus on rhetorical analysis. Classroom activities include grammar development, Socratic seminars, speeches, class presentations with technology components, timed writings, weekly vocabulary units, ACT practice, and essays, including research-based, expository, narrative, and persuasive responses. The Honors English student will be expected to complete readings outside of class. Additionally, an expectation for Honors English is the completion of two assigned summer reading novels.

English 2 H/AP 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. 31)

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 and must be submitted by the end of February (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 focuses on the design and development of the MHS yearbook and how it is created using page layouts, journalism, interviewing and proofreading skills, editing, and photography. 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. Students will also be responsible for advertising, selling, and distributing the yearbook. Additionally, students will be required to sell 4-6 sponsors per semester. Academic performance in previous English courses will be reviewed to ensure deadlines and writing quality expectations can be met.

English 3**(1 credit)****MHS Code: ENG11SS TN Code: G01H11**

- **Prerequisite: English 10SS**
- **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 Honors**(1 credit)****MHS Code: ENG11HS TN Code: G01H11**

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

This course provides a challenging, enriched curriculum for the college-bound student. In addition to a focus on American literature the course emphasizes 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, poetry, 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 English 3 Honors is the completion of a summer reading assignment.

AP English 3 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.

AP Seminar**(1 credit)****MHS Code: SRSEMPS Code: G01H22**

- **Prerequisites: Subsequently or previously enrolled in English 2 Honors, AP Human Geography**
- **Grade Level: 10-11**
- **If taken after English 2 or 3, this class may count as the fourth credit of English required for graduation.**
- **Student seeking to obtain an AP Capstone Diploma must subsequently enroll in AP Seminar.**
- **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 English 3 Language and Comp/AP Seminar
MHS Code: ENG11PA TN Code: G01H17 & G01H22

(Yearlong—2 AP credits)

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

English 4

(1 credit)

MHS Code: ENG12SS 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 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 may complete some major out of class papers that may require research.

AP English 4 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. 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, some 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.

AP Research

(1 credit)

MHS Code: SRRESPS TN Code: G01H23

- **Prerequisite: AP Seminar (Obtained a score of 3 or higher)**
- **Grade Level: 11-12**
- **If taken after English II or III, this class may count as the fourth credit of English required for graduation.**
- **1 EPSO**

As the second course in the AP Capstone™ Program, AP Research provides the opportunity for students to formulate a research question, conduct academic research, and enter into the conversation of a particular research community through a yearlong inquiry. Throughout this process, students will identify a research gap, situate their academic problem, learn discipline-appropriate methods, and justify their exploration through purposeful choices. Essential to this endeavor, students will build a process and reflection portfolio in order to document and reflect on skill development and the various stages of their research investigation, all while ensuring that they are adhering to best ethical practices and proper source attribution. The course will culminate 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.

Film & Visual Media Studies

(1 credit)

MHS Code: ENGFVMS TN Code: G01H05

- **ELA elective**
- **Grades 10-12**

The goal of this course is to interpret visual forms of media and to analyze and evaluate the effectiveness of the various types. Visual forms of media can include film, print, photography, stage productions, short videos, graphic novels, and/or graphic design. Students will develop their ability to understand, analyze, discuss, and critique both historical and current media forms. Throughout the course, students will examine and analyze the effect of media on individuals and the broader culture.

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 model TI-84 Plus Silver Edition and will base instruction on these models. For certain topics in each class, use of graphing calculators will not be allowed. At such times, the teacher may furnish students with 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 MHS CODE: MAALICS TN Code: G02H00

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

Algebra I H (1 credit)

MJHS Code: MAAH0

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

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, 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 and graph linear equations, literal equations, linear inequalities, linear systems, absolute value equations, absolute value inequalities, and quadratic equations; graph and use exponential equations; identify key features of graphs and functions; describe and interpret quantitative information; use statistical methods to draw conclusions and make predictions; and understand basic counting procedures and concepts of probability.

Geometry (1 credit)

MJHS Code: MAG20 MHS Code: MAGEOSS, MAGEOCS TN Code: G02H11

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

Geometry emphasizes congruence, similarity, right triangle trigonometry, coordinate geometry, and modeling geometry concepts in real life situations. In accordance with the Tennessee Department of Education Curriculum standards, geometry also emphasizes parallel and perpendicular lines, quadrilaterals, transformations, surface area, volume and probability. Throughout the course, students build upon previous knowledge to justify relationships, reason mathematically, and solve problems. Modeling and real-world problems are introduced throughout the course with standards written to encourage the use of math to answer problems students will encounter in life.

Geometry Honors (1 credit)

MJHS Code: MAG10 MHS Code: MAGEHSS TN Code: G02H11

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

See Framework of Standards for Honors Courses.

Geometry emphasizes congruence, similarity, right triangle trigonometry, coordinate geometry, and modeling geometry concepts in real life situations. In accordance with the Tennessee Department of Education Curriculum standards, geometry also emphasizes parallel and perpendicular lines, quadrilaterals, transformations, surface area, volume, and probability. Throughout the course, students build upon previous knowledge to justify relationships, reason mathematically, and solve problems. Modeling and real-world problems are introduced throughout the course with standards written to encourage the use of math to answer problem students will encounter in life. 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. Geometry Honors moves at a faster pace than Geometry 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**

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 higher-order polynomials equations and functions, exponential equations and functions and extends other algebraic concepts. Students build upon previous knowledge of equations and inequalities to reason, solve, and represent equations and inequalities numerically and graphically as well as probability and foundational statistics skills such as interpretation of data and making statistical inferences.

Algebra 2A (1 credit)

MHS Code: MAA2ASS TN Code: G02H06

- 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 2A covers the first half of the Algebra 2 curriculum. Algebra 2 extends and deepens mathematical concepts and procedures emphasized in Algebra 1 including working with linear, quadratic, and systems of equations and functions. Algebra 2A introduces matrices and higher-order polynomial functions in accordance with the Tennessee Department of Education Curriculum Standards. There is an emphasis on solving equations and working with functions and graphing, especially polynomials. Throughout the course, students explore the structures of functions and interpret mathematical models. Algebra 2 topics build upon previous knowledge. Students are required to reason, solve, and represent mathematical concepts in multiple ways (i.e., graphically, numerically, and algebraically). Students will use algebra to model real-world problems.

Algebra 2B (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 students to higher-order polynomial, and transcendental functions. In accordance with the Tennessee Department of Education Curriculum Standards, Algebra II emphasizes quadratic, polynomial, exponential, and logarithmic expressions, equations, and functions. Additionally, this course introduces students to sequences, probability and foundational statistics, including but not limited to statistical designs, 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 more complex algebraic and transcendental functions. Students connect numerical, analytical, graphical and verbal representations in problem-solving throughout the course, focusing on the key features of functions, correct use of mathematical notation, and organized written work. Students also address matrices, sequences, probability, and statistics.

SAILS Statistics (1 credit)

MHS Code: MASAILS TN Code: G02H37

- Prerequisite: Geometry and Algebra 2
- Grade Level: 12
- NCAA Eligibility Qualifying Course

The Seamless Alignment and Integrated Learning Support (SAILS) program targets students who have not achieved college readiness benchmarks by introducing the college developmental curriculum into the high school senior year. Developed by K-12 teachers and higher-education faculty, SAILS embeds college Learning Support competencies into the high school senior year math course, allowing students to begin their college career prepared for credit-bearing coursework. SAILS utilizes a facilitated hybrid instructional model, combining the professional pedagogical expertise of the certified teacher with dynamic properties of multimedia and digital content.

LDC Mathematical Reasoning for Decision Making (1 credit)

MHS Code: MAMRFDM TN Code: G02H97

- Prerequisite: Algebra 2 CP or Algebra 2B
- Grade Level: 12

Applications and modeling using mathematics are the primary foci of this course. Throughout the course, you will explore mathematical content in the context of applications to the real world. Topics will build upon your previous knowledge of how to solve and represent mathematical concepts in multiple ways. This class encourages you to use math to answer problems we all encounter in life. This course is *best intended for students who are planning to attend a College of Applied Technology, military service, or enter the workforce immediately following graduation.

SDC Pre-Calculus CP**(1 credit)****MHS Code: MAPRCSS TN Code: G02H74**

- **Prerequisite: Algebra 2H 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.

SDC Pre-Calculus Honors**(1 credit)****MHS code: MAPRCHS TN code: G02H74**

- **Prerequisite: Algebra 2 H 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. AP Calculus AB is a one-term course intended for senior students wanting to pursue post-secondary programs in mathematics, science, computer science, and engineering or for advanced mathematics students wishing to fulfill college mathematics requirements through Advanced Placement credit. This AB course, which corresponds to a college Calculus 1 course, serves as an introduction to the language, theory, techniques, and applications of single variable calculus with an 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 AB Course Description and to prepare students for either of two exams given by the College Board. Students can sit for either the Advanced Placement Calculus AB exam or for the CLEP (College Level Examination Program) exam. Successful completion of either of these examinations may result in college credit. Students who choose to take AP course work are expected to take the AP or CLEP exam and will be responsible for the cost. Students should refer to college course catalogs for more detailed information regarding credit awarded for AP and CLEP exams.

AP Calculus BC**(1 credit)****MHS Code: MABCCPS TN code: G02H25**

- **Prerequisite: Calculus AB**
- **Grade Level: 12**
- **NCAA Eligibility Qualifying Course**
- **1 EPSO**

AP Calculus BC is intended for senior students wanting to pursue post-secondary programs in mathematics, science, computer science, and engineering or for advanced mathematics students wishing to fulfill college mathematics requirements through Advanced Placement credit. AP Calculus BC is the continuation of a two-semester sequence of calculus that follows our AP Calculus AB course. This BC course, which closely corresponds to a college Calculus 2 course, presents the theory, techniques, and applications of single variable calculus with an emphasis on functions, graphs, limits, derivatives, integrals, and series. Calculus BC both reinforces and expands the skills and concepts introduced in AB as well as presenting a deep study of infinite series and analysis of planar curves in parametric, polar, and vector forms. This course is designed to satisfy all requirements of the AP Calculus BC Course Description and to prepare students for the College Board's Advanced Placement Calculus BC exam (which includes an AB subscore). Successful completion of the AP exam 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.

SDC Intro to Probability & Statistics**(1 credit)****MHS Code: MAIPSSS TN Code: G02H75**

- **Prerequisite: Algebra 2**
- **Grade level: 11-12**
- **NCAA Eligibility Qualifying Course**
- **1 EPSO available for SDC exam: MATH 1530**

SDC Intro to Probability and Statistics is a State Dual Credit Statistics course. This is a college-level course in which all students enrolled will take the online challenge exam used to assess mastery of post-secondary level learning objectives for the course. Students who meet or exceed the exam “cut score” receive college credit that can be applied to any Tennessee Board of Regents public post-secondary institution. 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. Students will learn concepts of probability and statistical inference along with an approach to understanding concepts and methodologies. Students get an introduction to study purpose and design, types of statistical variables, and statistical and critical thinking. Key topics in this course include descriptive statistics, measures of center and variation, discrete and normal probability distributions, sampling distributions, confidence interval estimation, hypothesis testing, and linear regression and correlation. Students will work extensively with graphing calculators. Assessment will be based upon exhibitions of mastery and individual testing.

AP Statistics**(1 credit)****MHS Code: MASTASS TN Code: G02H26**

- **Prerequisite: Algebra 2 H or SDC PreCalculus**
- **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 certain types of problems in these areas. Major techniques of probabilistic and statistical analysis are emphasized. Key topics in this course include descriptive statistics, measures of center and variation, discrete and normal probability distributions, sampling distributions, confidence interval estimation, hypothesis testing, and linear regression and correlation. Students work extensively with graphing calculators. Assessment will be based upon exhibitions of mastery and individual testing. This course is designed to prepare students for the College Board’s Advanced Placement (AP) Statistics 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 1830**(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, calculators, or an app. Requires completion of Algebra 1 and Algebra 2 and Precalculus and ACT math score at least 23 and an ACT reading score of at least 19. A graphing calculator is required.

Students enrolled in this course will complete this course at MHS in partnership with Pellissippi State Community College.

DE Stats 1530**(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. Noncalculus-based computer applications will be investigated. Requires ACT scores of 19 in Reading and 19 in Math.

Environmental Science (1 credit)
MJHS Code: SCE30 TN Code: G03H33
 • **Grade Level: 9**
 • **NCAA Eligibility Qualifying Course (.5 unit)**

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

Biology I (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.

Biology Honors (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. It is recommended that Honors Biology not be taken as the student's only honor class. Students should also be enrolled in either honors English or Honors Geometry. A lab fee will be charged.

Chemistry 1 (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.

Plant and Animal Diversity (Bio 2) (1 credit)
MHS Code: SCBI2SS TN Code: G03H09
 • **Prerequisite: Biology 1 and Chemistry 1 or Physics**
 • **Grade Level: 11-12**
 • **NCAA Eligibility Qualifying Course**

Plant and Animal Diversity is a laboratory science which extends and broadens biological principles introduced in Biology I. This class will explore the diverse groups of plants and animals through phylum specific dissections. This exploration includes information regarding the evolutionary relatedness, unique body forms, and how those forms fit specific functions in the organism's environment. Other tangentially related topics including organismal interactions and behavior will also warrant discussion and exploration. A lab fee will be charged.

Physics 1 (1 credit)
MHS Code: SCPHYSS TN Code: G03H20
 • **Prerequisites: Algebra 1, Geometry and Biology 1**
 • **Grade Level: 10-12**
 • **This course may substitute for a 4th math course if taken after the completion of Algebra II.**
 • **NCAA Eligibility Qualifying Course**

This class is an algebra-based course that covers 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.

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

- Prerequisite: Biology 1 and Chemistry 1
- Grade Level: 11-12
- 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: SCCSSS TN Code: G03H35**

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

This course is 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.

Wildlife Principles**(1 credit)****MHS Code: SCWLDES TN Code: G03H32**

- Grade Level: 11-12
- Prerequisite: Biology 1 and Chemistry 1 or Physics

Wildlife Principles is a course with focus on critical thinking skills and dealing with multi-solution problems in wildlife ecology and management. Application of content to real-world situations allows students to develop higher order thinking skills and can prepare students for a future vocation in wildlife science. The course includes instruction in the history of wildlife management, ecological concepts, habitat management techniques for wildlife, population dynamics, predator-prey relationships, identification of wildlife (birds, mammals, reptiles), human-wildlife conflict resolution, the role of hunting in conservation, game and fish laws and regulations, and the application of scientific principles to managing wildlife habitats and populations. A lab fee will be charged.

Astronomy**(1 credit)****MHS Code: SCESASS TN Code: G03H02**

- Grade Level: 11-12
- Prerequisite: Biology 1 and Chemistry 1 or Physics

Astronomy is the scientific study of the contents of the entire Universe. The purpose of this course is to enable students to develop and apply knowledge of the universe and compare the conditions, properties, and motions of bodies in space. Emphasis shall be placed on concepts basic to Earth, including materials, processes, history, and the environment. The content includes, but is not limited to, historical astronomy, astronomical instruments, the celestial sphere, the solar system, the earth as a system in space, the earth/moon system, the sun as a star, and stars. A lab fee will be charged.

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 Board's Advanced Placement Program, including the areas of molecular and cellular biology, genetics and evolution, and population ecology. 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)
- 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. 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**
- **This course may substitute for a 4th math course if taken after the completion of Algebra II.**
- **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; momentum; oscillations; and fluids. 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**
- **This course may substitute for a 4th math course if taken after the completion of Algebra II.**
- **NCAA Eligibility Qualifying Course**
- **1 EPSO**

AP Physics 2 is an algebra-based, introductory college-level physics course that explores topics such as thermodynamics; electric forces and fields; electric circuits; magnetism and electromagnetism; geometric optics; waves, sound, and physical optics; and modern physics. 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 Languages

The Volunteer State Seal of Biliteracy Award (a diploma distinction)

World Language students who score a 3 or higher on their Advanced Placement examination or achieve a score of 50 or higher on a Level I or Level II CLEP assessment may be eligible to receive the Seal of Biliteracy Award, which recognizes students who have studied and attained proficiency in two or more languages by graduation. For more information regarding this award and eligibility, please go to: www.volstate Seal.org

Spanish 1 (1 credit)

MJHS Code: FLSP0 (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 (1 credit)

MJHS Code: FLS20 MHS Code: FLSP2SS 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. It is recommended that Spanish 2 students pass with an 80% or better in order to be successful in Spanish 3 Honors.

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. It is recommended that Spanish 3 Honors students pass with an 80% or better in order to be successful in Spanish 4 Honors.

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. A CLEP opportunity may be provided by the course instructor, which can result in an EPSO if the student passes the CLEP exam. It is recommended that Spanish 4 Honors students pass with an 80% or better in order to be successful in AP Spanish.

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.

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 activities designed to build proficiency. 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. It is recommended that French 2 students pass with an 80% or better in order to be successful in French 3 Honors.

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 activities designed to build proficiency. 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. It is recommended that French 3 Honors students pass with an 80% or better in order to be successful in French 4 Honors.

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. A CLEP opportunity may be provided by the course instructor, which can result in an EPSO if the student passes the CLEP exam. It is recommended that French 4 Honors students pass with an 80% or better in order to be successful in AP French.

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.

American Sign Language 1**(1 credit)****MJHS Code: FLSL1 MHS Code: FLASL1SS TN Code: G24H00**

- **Grade Level: 9-12**

This course is designed for students with no knowledge of Deaf American culture or its language, American Sign Language (ASL). Training is designed to lay a foundation of expressive and receptive skills of ASL used by the Deaf Community through basic linguistic structures and analysis of signs. Content includes basic statements and vocabulary, finger spelling, questions, classifiers, spatial relationships, time and numbers. In addition, cultural knowledge and an increased understanding of the Deaf Community will be introduced. Scheduling priority will be given to students taking ASL to fulfill their language requirement for graduation.

American Sign Language 2**(1 credit)****MHS Code: FLASL2SS TN Code: G24H01**

- **Prerequisite: ASL 1**
- **Grade Level: 10-12**

ASL II continues the development of expressive and receptive competence in using American Sign Language to fulfill various social functions. It emphasizes further development of finger spelling, vocabulary building, and grammatical structures. This class encourages more extensive use of non-manual signals, classifiers, body postures, and signing space. Deaf culture is further explored and issues of the deaf community are debated. This class will be taught primarily in ASL.

American Sign Language 3 Honors**(1 credit)****MHS Code: FLASL3SS TN Code: G24H02**

- **Grade: 10-12**
- **Prerequisite: ASL 1 and 2**

This course assumes that students have mastered the Maryville City Schools performance objectives presented in ASL II. The ASL III course continues to build on the skills of vocabulary and grammatical structures emphasized in ASL II to develop fluency. In order to achieve conversational competence in American Sign Language, students will work towards passing the Seal of Bilingual exam for the state of Tennessee. Students will undergo intensive practice and comprehension with a total immersion approach. This course will further enhance application of non-manual signals, classifiers, mouth morphemes, and conceptually accurate signs. Students will be introduced to the effect of language on culture, as well as an expansion of Deaf cultural values, traditions and norms.

DE American Sign Language 4
MHS Code: FLASL4SS TN Code: G24HI9

(1 credit)

- **Grade: 11-12**
- **Prerequisite: ASL 3**
- **1 EPSO**

This Dual Enrollment course is taken in conjunction with Maryville College and correlates to ASL 203. This course will advance students' vocabulary, grammar, and sign production through ASL storytelling and narrative building. Students will analyze and synthesize pieces of ASL literature, refine their intermediate conversational abilities, and extend their understanding of Deaf culture and history within the US. Students who take this course will remain at MHS campus for the majority of their time but will have the opportunity to utilize Maryville College Campus for the ASL Lab portion of the curriculum.

Social Studies

Ancient 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 MHS Code: SSSWHSS TN Code: G04H10

- **Grade Level: 9,10**
- **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. This course covers problems and trends in European social and political development as accentuated by the revolutionary movements of the 18th, 19th, and 20th centuries, and how social, economic, and political turmoil has characterized the world in the 20th century. A continued focus on world geography and mapping skills will be emphasized throughout the course. A fee will be charged.

AP World History

(1 credit)

MHS Code: SSWDHSS TN Code: G04H29

- **Grade Level: 10-12**
- **NCAA Eligibility Qualifying Course**
- **1 EPSO available**

The purpose of the AP World History course is to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. The course emphasizes relevant factual knowledge deployed in conjunction with leading interpretive issues and types of historical evidence. The course builds on an understanding of cultural, institutional, and technological precedents that, along with geography, set the human stage. Periodization, explicitly discussed, forms an organizing principle for dealing with change and continuity throughout the course. Specific themes provide further organization to the course, along with the consistent attention to contacts among societies that form the core of world history as a field of study.

Sociology Honors

(1 credit)

MHS Code: SSSOCSS TN Code: G04H14

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

This course introduces students to the concepts and theoretical approaches of sociology with an emphasis on culture, socialization, deviance and crime, stratification, race and ethnicity, sex and gender, families, education, politics, healthcare, population and urbanization, research process, collective behavior and social movements.

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.

Tennessee History**(.5 credit)****MHS Code: SSTNHPS TN Code: G04H01**

- **Grade Level: 10-12**

Students will examine the history of Tennessee, including the cultural, geographic, economic, and political influences upon that history. Students will discuss Tennessee's indigenous peoples as well as the arrival of Euro-American settlers. Students will analyze and describe the foundation of the state of Tennessee. Students will identify and explain the origins, impact, and aftermath of the Civil War. Students will discuss the rise of a manufacturing economy. Finally, students will examine and discuss the Civil Rights Movement and Tennessee's modern economy and society. This course follows the same organization as Section VI from the Tennessee Blue Book.

African American Studies**(.5 credit)****MHS Code: SSAAHPS TN Code: G04H23**

- **Grade Level: 10-12**

In African American History, students will examine the life and contributions of African Americans from the early 1600s through the contemporary United States. Students will explore the influence of geography on slavery and the growth of slavery in the U.S. Students will consider urban and rural African American communities and institutions in the North and South leading up to and during the Civil War. Students will investigate the rise of Jim Crow and the subsequent effects of the laws and trace the impact of African American migration through the early 20th century. Students will explore the impact of the Harlem Renaissance as well as the contributions of African Americans during the Great Depression and World War II. Students will examine the successes and failures of the Civil Rights Movement and consider the contemporary issues confronting African Americans.

AP Psychology**(1 credit)****MHS Code: SPSYPS TN Code: G04H15**

- **Prerequisite: Completion of English courses at a level of Honors or AP**
- **Grade Level: 11-12**
- **NCAA Eligibility Qualifying Course (AP)**
- **1 EPSO available for AP or SDC exam: PSYC1030**

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.

Psychology H**(1 credit)****MHS Code: SPSYCH TN Code: G04H15**

- **Grade Level: 10-12**
- **1 EPSO available for CLEP exam: Introductory Psychology.**

This semester-long Honors level course gives students a clear introduction to the scientific study of mind and behavior. Through readings, discussions, and projects, students will learn major facts, concepts, and methods from across psychology and apply them to real-world situations. Students will study the development of scientific attitudes and skills, including critical thinking, problem solving, and scientific methodology. Students will also examine the structure and function of the nervous system. Students do have the opportunity to sit for a CLEP examination to earn college credit for introductory psychology. A fee will be charged.

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**(1 credit)****MHS Code: SSUSHSS****TN Code: G04HB3**

- **Grade Level: 11**
- **Prerequisite: English I and English II**
- **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.

SDC U.S. History Honors**(1 credit)****MHS Code: SSUSHHA****TN Code: G04HB3**

- **Grade Level: 11**
- **Prerequisite: English I and English II**
- **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**
- **This course may substitute for the U.S. Government and Civics course required for graduation.**

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 possess strong reading skills and work ethic. A fee will be charged.

Economics**(.5 credit)****MHS Code: 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.

- AP Economics** (1 credit)
MHS Code: SSECOPS, SSFINSQ **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 grade 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. Students can earn a graduation required credit in Finance during this course.

- Personal Finance** (.5 credit)
MHS Code: SSFINSQ **TN Code: G04H36**
- **Grade Level: 10, 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.

- Government** (.5 credit)
MHS Code: 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

- ACT Readiness Preparation** (.5 credit)
MHS Code: SRACTSB **TN Code: G25H00**
- **Grade Level: 10-11**

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.

- Computer Science** (1 credit)
MHS Code: SRCMPSC **TN Code: G10H06**
- **Grade Level 9-12**
 - **Fulfills the Computer Science requirement and may substitute for fourth year science or fourth year math course.**

Computer Science is the study of computers and algorithmic processes, including their principles, their hardware and software designs, their implementation, and their impact on society. Beginning with the 2024-25 Freshman Cohort, all students will be required to complete one credit in Computer Science as part of the Graduation Requirements. This course is designed to introduce students to the foundational concepts, algorithmic thinking, programming concepts, data and analysis, networking and the internet, and the impacts of computer science.

Leadworthy (1 credit)
MJHS Code: CTLE9
• **Grade Level: 9**

Leadworthy is a leadership course designed for students who wish to build and refine leadership skills. This course focuses on developing the required skills of leadership through an interactive, participatory experience. Classwork may include group activities, guest speakers, presentations, projects and community service opportunities. This course is more service-oriented than Leadworthy 8, offering students expanded opportunities to mentor and volunteer within their community.

Leadworthy 1 (.5 credit)
MHS Code: SPLEWSS TN Code: G04H37
• **Grade Level: 10-12**

Leadworthy is a leadership course designed to support students in developing a healthy self-concept, goal setting, and a sense of personal responsibility. This course builds public speaking and communication skills, social skills in an interactive, participatory experience. The content focuses on looking at, understanding, and presenting ourselves in a positive way, reflecting on qualities we have, values we strive toward, and the impact we have on others. Classwork can include role-plays, group activities, speeches, projects, and community service opportunities.

Leadworthy 2 (.5 credit)
MHS Code: SRLEADT TN Code: G04H37
• **Grade Level: 11-12**
• **Prerequisite: Leadworthy 1**

Leadworthy 2 is designed for students to continue building relational, leadership, and business skills based on the foundation of Leadworthy 1. The content focuses on interactions with others, conflict resolution, quality relationships, financial literacy, servant leadership, and a vision for the future. This class is participation-based and requires that students participate in a variety of ways, including speeches, small group discussions, large group discussions, role-plays, and presentations. Classwork will also include research, group activities, guest speakers, and community service opportunities.

Leadworthy 3: Dual Enrollment with Pellissippi (1 credit)
MHS Code: SRLEADU TN Code: G04H37
• **Grade Level: 11-12**
• **Prerequisite: Successfully passing Leadworthy 1 & 2; teacher recommendation**
• **1 EPSO with Pellissippi - Humanities 2100 Leadership Development**

In partnership with Leadership Blount, Leadworthy 3 is designed to provide students with a dual enrollment opportunity to further advance their studies at MHS. Upon completion of the course, students will receive a certification of completion for the Youth Leadership Blount program. Real world learning exercises, interactions with peers and college and community leaders, and written assignments will be combined to illustrate the application of strategies required to successfully communicate with others, facilitate group or organizational activities, constructively resolve conflicts, and plan and implement activities or programs. Issues of diversity, personal growth and interpersonal relationships are explored within the context of leadership development. A portion of the course will focus on leadership within Blount County and students will be expected to participate in community service activities.

Senior Transition (.5 credit and 1 credit)
MHS Code: SRSTRHS, 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.

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 Seminar

(1 credit)

MHS Code: SRSEMPS Code: G01H22

- Prerequisites: Subsequently or previously enrolled in English 2 Honors, AP Human Geography
- Co-requisite: English 2 Honors or AP Lang and Comp
- Grade Level: 10-11
- 1 EPSO
- This course may substitute for a third or fourth English credit towards graduation, if taken after English 2 or 3.

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 (Obtained a score of 3 or higher)
- Grade Level: 11-12
- 1 EPSO
- This course may substitute for a third or fourth English credit towards graduation, if taken after English 2 or 3.

As the second course in the AP Capstone™ Program, AP Research provides the opportunity for students to formulate a research question, conduct academic research, and enter into the conversation of a particular research community through a yearlong inquiry. Throughout this process, students will identify a research gap, situate their academic problem, learn discipline-appropriate methods, and justify their exploration through purposeful choices. Essential to this endeavor, students will build a process and reflection portfolio in order to document and reflect on skill development and the various stages of their research investigation, all while ensuring that they are adhering to best ethical practices and proper source attribution. The course will culminate 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: SAPTO MHS Code: SAPRTSS TN Code: C25H13

- Prerequisite: Application required and must be submitted by the end of February
- 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.

Teacher Assistant (Student Assistant-MJHS)

(No Credit)

MJHS Code: SATA9 TN Code: C25H15

MHS Codes: TN Code: G25H10

- 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. Students should not consider this course a study hall but rather a service opportunity to their placement area.

- 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 courses. Limited opportunities are available as preference is given to juniors and seniors.

Study Hall

(No Credit)

MHS Code: SSECESS (semester) SSECESM (A/B Course) TN Code: G25H10

- Grade Level: 10-12

Students may request a study hall period only once per academic year and must be enrolled in five core academic courses or five bonus point courses. Juniors and Seniors will have priority placement.

The Career and Technical Education (CTE) Programs at Maryville Junior High and Maryville High School provide multiple pathways that align with students' interests and a wide range of postsecondary goals. In each program, there is a clearly defined sequence of coursework designed to help students meet workforce expectations, as well as opportunities to earn industry-recognized certifications, Local Dual Credit, State Dual Credit, or Advanced Placement (AP) credit transferable to two-year or four-year college degrees.

The State of Tennessee organizes CTE programs within a Career Cluster Framework that groups programs according to their contributions to society. Below are listed the Career Clusters and Programs of Study offered on-site at Maryville Junior High and Maryville High School, as well as coursework offered at off-site locations through our partnership with the Tennessee College of Applied Technology (TCAT). The following pages detail the specific course sequences and available certification/postsecondary credit opportunities within each Program of Study.

The Digital Technology, Marketing and Sales, and Business Management & Administration Career Clusters have been identified as crossing cutting opportunities for students in many of the other Career Clusters. Cross-cutting elective option courses have been identified in each Career Cluster as they will apply to the Maryville Junior High and Maryville High School Programming.

Career Clusters and Programs of Study

Career Cluster: Advanced Manufacturing

Programs of Study

- Engineering
- Robotics and Technology
- Welding (TCAT)

Career Cluster: Construction

Programs of Study

- Residential and Commercial Construction

Career Cluster: Supply Chain and Transportation

Programs of Study

- Auto Collision Repair (TCAT)

Career Cluster: Education

Programs of Study

- Teaching as Profession

Career Cluster: Healthcare and Human Services

Programs of Study

- Emergency Services
- Nursing Services
- Sport & Human Performance
- Cosmetology (TCAT)

Career Cluster: Civics, Public Service & Safety

Programs of Study

Criminal Justice

Career Cluster: Arts, Entertainment & Design

Programs of Study

- Digital Arts & Design
- A/V Production

Career Cluster: Hospitality and Events

Programs of Study

- Culinary Arts

Career Cluster: Digital Technology

Programs of Study

- Web Design
- Networking Systems
- Cybersecurity

Career Cluster: Marketing and Sales

Programs of Study

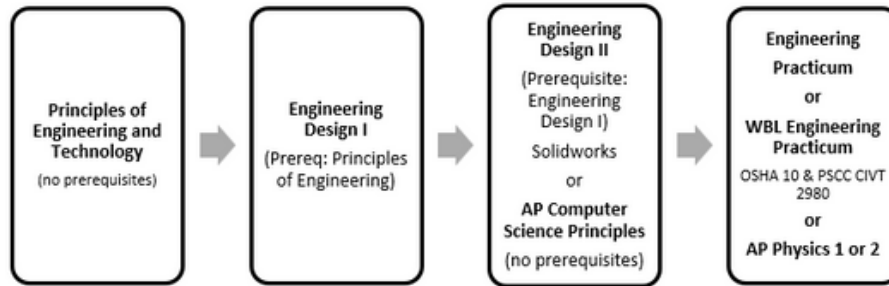
- Marketing Management

Career Cluster: Management & Entrepreneurship

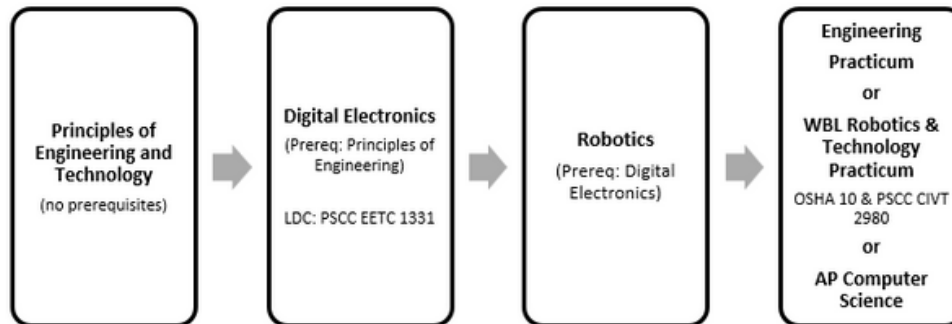
Programs of Study

- Business Management & Administration

**Career Cluster: Advanced Manufacturing
Engineering**



Robotics & Technology



Principles of Engineering & Technology

MJHS Code: CTET9 MHS Code: CTPENTC TN Code: C21H04

Grade Level: 9-11

(1 credit)

This course may substitute for the fourth year lab science graduation requirement.

This course is designed to develop the fundamental visualization and graphic communication skills used within a technical environment through both manual and computer means. Principles of Engineering and Technology is a foundational course in the STEM cluster for students interested in learning the basic skills required for engineering and technology fields of study. Upon completion of this course, proficient students are able to identify and explain the steps in the engineering design process. They can evaluate an existing engineering design, use fundamental sketching and engineering drawing techniques, complete simple design projects using the engineering design process, and effectively communicate design solutions to others using CAD.

Digital Electronics

MHS Code: CTDIGEL TN Code: C03H08

- **Prerequisite: Principles of Engineering**
- **Grade Level: 10-12**
- **1 EPISO 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, 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

MHS Code: CTCSPPS TN Code: G02H44

- **Grade Level: 11-12**
- **Fulfills the computer science requirement and may substitute for fourth year science, fourth year math course, or as one course in an elective focus pathway.**
- **1 EPISO**

(1 credit)

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: CTPENSS TN Code: C21H05

- Prerequisite: Principles of Engineering and Technology
- Grade Level: 10-12
- This course may substitute for a 4th lab science graduation requirement.

Engineering Design I 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: CTED2SS TN Code: C21H06

- Grade Level: 10-12
- This course may substitute for a 4th lab science graduation requirement.
- 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
- Grade Level: 11-12

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.

Engineering Practicum

MHS Code: CTCEDPR TN Code: C21H14

- Grade Level: 11-12
- Prerequisites: Engineering Design 2 or Robotics & Automated Systems

Engineering Practicum is a capstone course intended to provide students with the opportunity to apply the skills and knowledge learned in previous Engineering courses within a professional, working environment. In addition to developing an understanding of the professional and ethical issues encountered by engineers and technologists in the workplace, students learn to refine their skills in problem solving, research, communication, data analysis, teamwork, and project management. The course is highly customizable to meet local system needs: instruction may be delivered through school laboratory training or through work-based learning arrangements such as internships, cooperative education, service learning, mentoring, and job shadowing. Upon completion of the practicum, students will be prepared for postsecondary study in engineering and technology fields.

WBL Engineering Career Practicum

(1 credit)

MHS Code: CTWBSTE TN Code: C21H47

- Prerequisite: 2 credits in a CTE program of study
- Application required
- Grade Level: 11th & 12th (students must be at least 16 years old)
- 1 Industry Certification Available: OSHA-10 General Industry Course
- IEPSO Available: PSCC CIVT 2980 - Special Topics - 1 Credit Hour

The WBL Career Practicum course provides students with the opportunity to apply classroom concepts in the workplace through paid or unpaid placements to support the development of career readiness knowledge and skills. Through experiences such as internships, apprenticeships, and paid cooperative work experiences, students may earn high school credit for capstone WBL experiences. WBL experiences can be a capstone course for all CTE programs of study and is open to 11th and 12th grade students (16 years or older) who have earned a minimum of 2 credits in a CTE program of study. Students must complete an application and receive CTE Focus Area teacher referral for consideration in WBL Career Practicum. See SchoolLinks registration or Counseling Canvas Page for Applications.

Welding



The Welding Technology is offered at the Blount County TCAT Campus as a Dual Enrollment Program. This program prepares the student for certification in a variety of welding techniques and processes. Students begin doing basic welding beads and progress step-by-step to achieve the final goal of pipe welding. Progression is monitored and mastery of each technique is achieved by a combination of classroom, individual, and text book instruction. Graduates of the Welding program will be able to demonstrate competencies in flame cutting, electric ARC welding, gas tungsten, gas metal ARC welding, and flux-cored ARC welding processes. **Students will need to provide their own steel-toed boots, welding hood, jacket, gloves and textbooks. Space within this program is limited by TCAT Knoxville.**

DE Welding 1 (1 credit)
MHS Code: CTWELD1 TN Code: C13H03

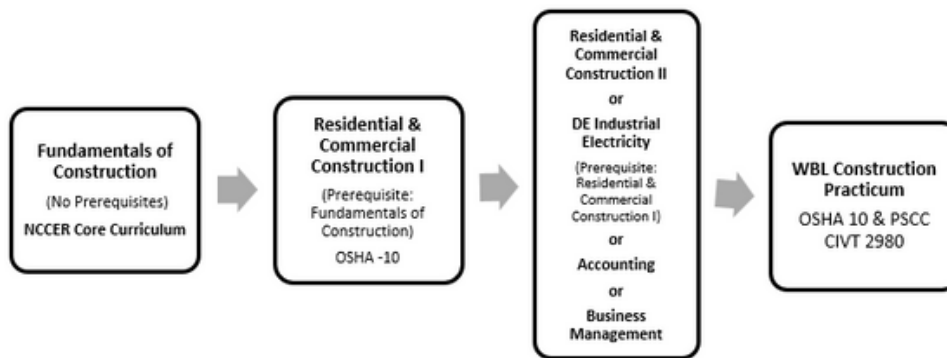
DE Welding III (1 credit)
MHS Code: CTWELD3 TN Code: C13H38

DE Welding II (1 credit)
MHS Code: CTWELD2 TN Code: C13H18

DE Welding IV (1 credit)
MHS Code: CTWELD4 TN Code: C13H39

Career Cluster: Construction

Residential & Commercial Construction



Fundamentals of Construction (1 credit)
MJHS Code: CTPMC TN Code: C17H15

- Grade Level: 9
- 1 industry certification available: NCCER Core Curriculum

This course provides students with exposure to various occupations and pathways in the Construction Career Cluster. Students will develop an understanding of the general steps involved in the construction process and will master the essential skills to be an effective team member in the construction 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: Fundamentals of Construction
- Grade Level: 10-12
- 1 Industry Certification Available: OSHA-10

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 2 (1 credit)
MHS Code: CTRC2SS TN Code: C17H25

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

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.

DE Industrial Electricity**(1 credit)****MHS Code: CTDEIES TN Code: C17H03**

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

This course is offered in alignment with the Tennessee College of Applied Technology.

WBL Residential Construction Career Practicum or Apprenticeship**(1 credit)****MHS Code: CTWBRCP TN Code: C17H47**

- **Prerequisite: 2 credits in this program of study**
- **Application required**
- **Grade Level: 11th & 12th (students must be at least 16 years old)**
- **1 Industry Certification Available: OSHA-10 General Industry Course**
- **1EPSO Available: PSCC CIVT 2980 - Special Topics - 1 Credit Hour**

The WBL Career Practicum course provides students with the opportunity to apply classroom concepts in the workplace through paid or unpaid placements to support the development of career readiness knowledge and skills. Through experiences such as internships, apprenticeships, and paid cooperative work experiences, students may earn high school credit for capstone WBL experiences. WBL experiences can be a capstone course for all CTE programs of study and is open to 11th and 12th grade students (16 years or older) who have earned a minimum of 2 credits in a CTE program of study. Students must complete an application and receive CTE Focus Area teacher referral for consideration in WBL Career Practicum. See SchoolLinks registration or Counseling Canvas Page for Applications.

Career Cluster: Supply Chain & Transportation**Auto Collision Repair**

The Tennessee College of Applied Technology Knoxville was established in 1963 by enactment of the General Assembly as part of a statewide system of 26 schools whose purpose is to provide work specific training to prepare citizens for employment. The Tennessee College of Applied Technology Knoxville designs and offers programs that are responsive to local business and industry needs.

The Tennessee College of Applied Technology Knoxville main campus is located at:

Main Campus
1100 Liberty Street
Knoxville, TN 37919
865-546-5567

Automotive Collision Repair Technology

The Automotive Collision Repair Program is taught at TCAT Knoxville as a Dual Enrollment Program. If you have a love for cars, a steady hand and an eye for detail, you might find a career in Collision Repair. The Collision Repair Technology is designed to introduce and train the student to analyze and estimate vehicles for repairing vehicles to pre accident condition. During the training students will learn how to operate hand tools, power tools, welders and shop equipment used in the collision trade. With this training; students will learn how to repair dents in sheet metal, repair composite materials, measure and pull frames, collision mechanical and refinish vehicles using spray equipment bringing the vehicle to pre-accident condition.

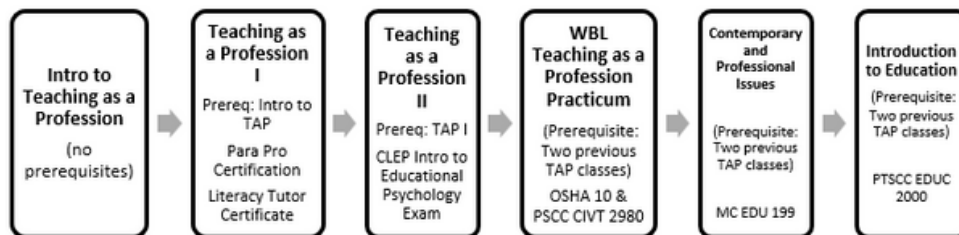
The Collision Repair Technology program is a National Automotive Technicians Education Foundation (NATEF) certified program and is approved by the National Institute for Automotive Service Excellence Education Foundation (ASEEF). ASEEF offers five certification areas in the Collision trade.

Space within this program is limited by TCAT Knoxville.

DE Automotive Collision Repair Technology 1**(1 credit)****MHS Code: CTAUTO1 TN Code: C20H02****DE Automotive Collision Repair Technology 2****(1 credit)****MHS Code: CTAUTO2 TN Code: C20H23****DE Automotive Collision Repair Technology III****(1 credit)****MHS Code: CTAUTO3 TN Code: C20H24****DE Automotive Collision Repair Technology IV****(1 credit)****MHS Code: CTAUTO4 TN Code: C20H31**

Career Cluster: Education

Teaching as a Profession



Introduction to Teaching as a Profession

(1 credit)

MHS Code: CTTITAP TN Code: C32H33

- **Grade Level: 9-11**

Introduction to Teaching as a Profession is a foundational course in the Teaching as a Profession program of study for students interested in learning more about becoming a teacher, school counselor, trainer, librarian, or speech-language pathologist. Upon completion of this course, proficient students will gain knowledge in the history of education in the United States, careers in education, and the influence of human development on learning. Artifacts will be created for inclusion in a portfolio, which will continue throughout the full sequence of courses.

Teaching as a Profession 1

(1 credit)

MJHS Code: CTTAP MHS Code: CTTAMB1 TN Code: C25H04

- **Prerequisite: Introduction to Teaching as a Profession**
- **Grade Level: 9-11**
- **1 Industry Certification: Para Pro and Literacy Tutor Certificate**

Teaching as a Profession 1 is a course for students interested in learning more about becoming a teacher, school counselor, librarian, or speech-language pathologist. This course covers the components of instruction, teaching strategies, types of assessments, student learning, special populations, and educational technology. Students will conduct observations of educators at work and create artifacts for a course portfolio throughout the program of study.

Teaching as a Profession 2

(1 credit)

MHS Code: CTAMBSS TN Code: C32H02

- **Prerequisite: Teaching as a Profession 1**
- **Grade Level: 10-12**
- **1 EPSSO Available: CLEP Introduction to Educational Psychology**

This course is an applied-knowledge course for students interested in learning more about becoming a teacher, school counselor, trainer, librarian, or speech-language pathologist. This course covers classroom management, concepts of higher order thinking, differentiating instruction, and strategies of effective classroom planning. Students in this course will demonstrate their skills in laboratory settings while building a course portfolio of work, which will carry with them throughout the program of study.

WBL Teaching as a Profession Practicum

(1 credit)

MHS Code: CTWBTPP TN Code: C32H36

- **Prerequisite: 2 credits in this program of study**
- **Application required**
- **Grade Level: 11th & 12th (students must be at least 16 years old)**
- **1 Industry Certification Available: OSHA-10 General Industry Course**
- **1 EPSSO Available: PSCC CIVT 2980 - Special Topics - 1 Credit Hour**

The WBL Career Practicum course provides students with the opportunity to apply classroom concepts in the workplace through paid or unpaid placements to support the development of career readiness knowledge and skills. Through experiences such as internships, apprenticeships, and paid cooperative work experiences, students may earn high school credit for capstone WBL experiences. WBL experiences can be a capstone course for all CTE programs of study and is open to 11th and 12th grade students (16 years or older) who have earned a minimum of 2 credits in a CTE program of study. Students must complete an application and receive CTE Focus Area teacher referral for consideration in WBL Career Practicum. See SchoolLinks registration or Counseling Canvas Page for Applications.

Contemporary & Professional Issues (Dual Enrollment at Maryville College)

(1 credit)

MHS Code: CTTAM3SS TN Code: C32H26

- **Prerequisite: Teaching as a Profession 1 & 2**
- **Grade level: 11-12**
- **1 EPSSO**

A dual enrollment course for prospective educators to examine contemporary issues in education that include social and economic diversity, ethical and legal concerns, professional development, and credentialing. Foundational knowledge of pedagogy and disciplinary applications important to instruction are introduced. The prospective educator supports instruction through tutoring or small group sessions in a traditional and/or virtual educational setting. Approximately 10 hours of fieldwork will be completed for this course. Students are responsible for off-site transportation. Current background check is required.

Introduction to Education (DE at Pellissippi State)

MHS Code: CTDETAP TN Code C32H04

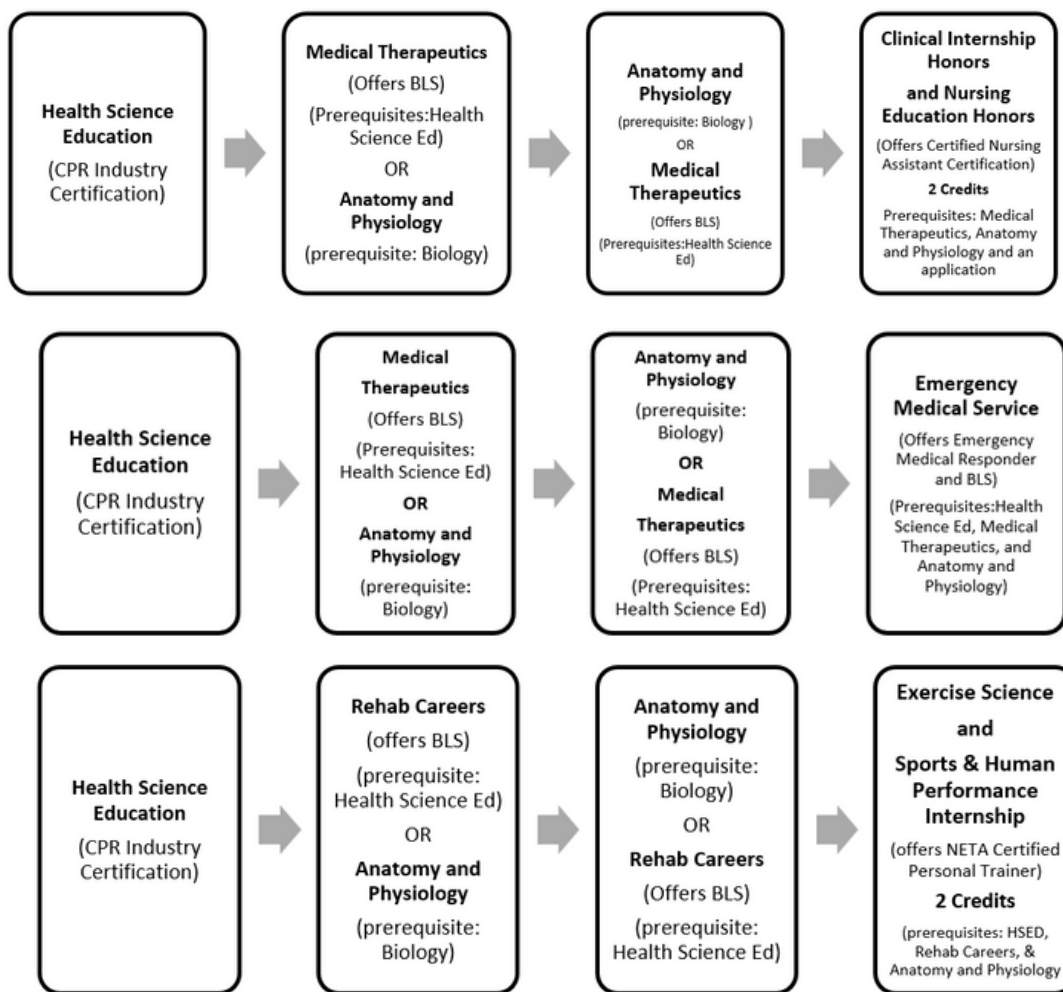
- **Prerequisite: Teaching as a Profession 1 & 2**
- **Grade level: 11-12**

- 1 EPSSO
- Must have taken ENG 1010

An overview of the role and legal responsibilities of the classroom teacher with an emphasis on current teaching strategies and best practices in education. The course also provides instruction in classroom management, student academic learning levels and diverse backgrounds, the workings of a school, a brief history of education, the components of an effective lesson plan, incorporating technology into instruction, as well as preparing effectively for the hiring process. Observation/Field Experience/Service Learning is required for this course. (Note: An additional cost of a criminal background check and liability insurance may be required for Observation/Field Experience/Service Learning. Students may also be required to attend an out-of-class orientation [3½ hours] and/or professional development events.)

Career Cluster: Healthcare & Human Services

Nursing Services, Emergency Services, and Sport & Human Performance



Health Science Education

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

(1 credit)

- **Grade level: 9-11**
- **1 industry certification available: CPR**

This introductory course with a heavy science emphasis acquaints the student with beginning principles of health care, services offered by health care systems, careers in the health care industry, 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

MHS Code: CTRHCSS TN Code: C14H08

(1 credit)

- **Prerequisite: Health Science Education**
- **Recommended Prerequisite: Anatomy & Physiology**
- **Grade Level: 10-12**
- **1 industry certifications available: Basic Life Support**

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.

Anatomy and Physiology for Health Science Students**(1 credit)****MHS Code: CTHSANP TN Code: C14H09**

- **Prerequisite: Biology and Health Science Education**
- **Grade Level: 9-11**

Anatomy and Physiology is designed to develop an understanding of the structures and functions of the human body, while relating those to knowledge and skills associated with pathophysiology. Upon completion of this course, proficient students will be able to (1) apply the gross anatomy from earlier courses to a deeper understanding of all body systems, (2) identify the organs and structures of the support and movement systems, (3) relate the structure and function of the communication, control, and integration system, and (4) demonstrate a professional, working understanding of the transportation, respiration, excretory, and reproduction systems.

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

- **Prerequisite: Health Science Education**
- **Grade Level: 10-12**
- **1 industry certification available: Basic Life Support (BLS)**

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.

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

- **Prerequisite: Health Science Education , Medical Therapeutics, and Anatomy & Physiology**
- **Grade Level: 11th and 12th grade**
- **2 industry certifications available: Emergency Medical Responder and Basic Life Support**

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. A fee will be charged to cover the cost of lab supplies and CPR certification.

*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: CTCINHNS (Clinical Internship) TN Code: C14H11****MHS Code: CTNEDHS (Nursing Education) TN Code: C14H16**

- **Prerequisite: Medical Therapeutics and 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.

Rehab Careers Curriculum
Sports and Human Performance and Exercise Science

Sports and Human Performance Internship/Exercise Science (2 credits)
MHS Code: CTSHPISS (Internship) TN Code: C14H11
MHS Code: CTEXSSS (Exercise Science) TN Code: C14H22

- Prerequisite: Health Science Education, Rehab Careers, and Anatomy & Physiology
- Grade Level: 12
- 1 industry certification available: NETA Personal Trainer Certification

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. 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.

Exercise Science is designed to prepare students to pursue careers in kinesiology and exercise physiology services. Upon completion of this course students will understand the importance that exercise, nutrition, and rehabilitation play in athletes or patients with debilitating or acute metabolic, orthopedic, neurological, psychological, and cardiovascular disorders. In addition, students have the opportunity to incorporate communication, goal setting, and information collection skills in their coursework in preparation for future success in the workplace.

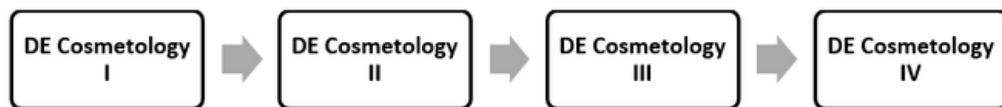
Sports and Human Performance Clinical Internship is designed to allow students to apply concepts of anatomy and physiology, physics, chemistry, bioenergetics, and kinesiology through off-campus, experiential learning in a variety of health care settings. Through these connections students will understand the importance that exercise, nutrition, and rehabilitation play in athletes or patients with debilitating or acute metabolic, orthopedic, neurological, psychological, and cardiovascular disorders. Prior to beginning work at a clinical site, students must be certified in Basic Life Support (BLS) Cardiopulmonary Resuscitation (CPR), and deemed competent in basic first aid, body mechanics, Standard Precaution guidelines, and confidentiality. Personal Trainer Certification candidates must be at least 18 years old, or hold a high school diploma. There are additional fees associated with this certification.

Cosmetology

The Tennessee College of Applied Technology Knoxville was established in 1963 by enactment of the General Assembly as part of a statewide system of 26 schools whose purpose is to provide work specific training to prepare citizens for employment. The Tennessee College of Applied Technology Knoxville designs and offers programs that are responsive to local business and industry needs.

The Tennessee College of Applied Technology Knoxville main campus is located at:

Main Campus
1100 Liberty Street
Knoxville, TN 37919
865-546-5567



The Cosmetology program is taught by TCAT Knoxville at the main campus as a Dual Enrollment Program. It provides the student with basic theory and clinical knowledge of the beauty industry through the use of approved textbooks, classroom instruction, and practical application with mannequins and live models. Upon successful completion of 1,500 hours of training, students are prepared to take the TN Board of Cosmetology licensing exam. **Space within this program is limited by TCAT Knoxville.**

DE Cosmetology I (1 credit)
MHS Code: CTCOSM1 TN Code: C19H04

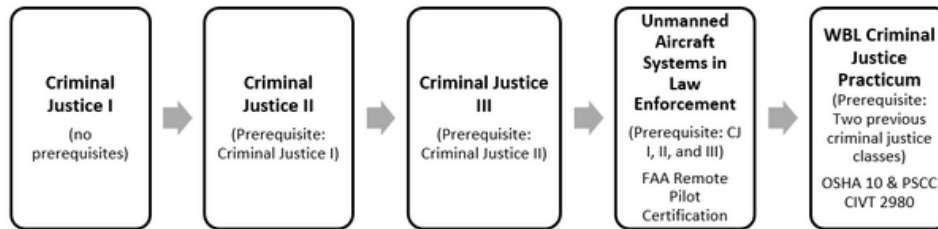
DE Cosmetology II (1 credit)
MHS Code: CTCOSM2 TN Code: C19H23

DE Cosmetology III (1 credit)
MHS Code: CTCOSM4 TN Code: C19H27

DE Cosmetology IV (1 credit)
MHS Code: CTCOSM4 TN Code: C19H28

Career Cluster: Civics, Public Service, & Safety

Criminal Justice



Criminal Justice 1

MJHS Code: CTCJ1 MHS Code: CTCJ1SS TN Code: C30H00

(1 credit)

- **Grade Level: 9-11**
- **NCAA Eligibility Qualifying Course**

Criminal Justice 1 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

MHS Code: CTCJTSS TN Code: C30H01

(1 credit)

- **Prerequisite: Criminal Justice 1**
- **Grade Level: 10-12**

Criminal Justice II is the second course in the Criminal Justice and Correction Services program of study. Upon completion of this course, proficient students will understand the impact of the constitution on law enforcement, law enforcement and police procedures, alcohol and beverage laws, sentencing, and the importance of communications and professionalism in law enforcement.

Criminal Justice 3: Investigation

MHS Code: CTCR3SS TN Code: C30H02

(1 credit)

- **Prerequisite: Criminal Justice 1 and 2**
- **Grade Level: 11-12**
- **1 EPSO possible**

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 Grades 11- 12 who have successfully completed Criminal Justice 1 and Criminal Justice 2.

Unmanned Aircraft Systems in Law Enforcement

MHS Code: CTCR4SS TN Code: C30H18

(1 credit)

- **Prerequisites: Criminal Justice 1,2 & 3**
- **Grade Level: 11-12**
- **1 EPSO : FAA Remote Pilot Certification**

The Unmanned Aircraft Systems (UAS) in Law Enforcement course is an advanced course in Law, Public Safety, Corrections, and Security career cluster intended to meet the needs of specific applications of advanced UAS precision technologies specific to the law enforcement industry. Students will receive rigorous instruction in preparation to take the the Federal Aviation Administration (FAA) remote Pilot Certification (Part 107) (less than 55 pounds) exam for the commercial drone pilots for small Unmanned Aircraft Systems (sUAS) and develop specific knowledge and skills associated with specific sUAS technologies, platforms and precision attachments to monitor, map, and provide data and surveillance in law enforcement situations.

WBL Criminal Justice Career Practicum

MHS Code: CTWBCJP TN Code: C30H27

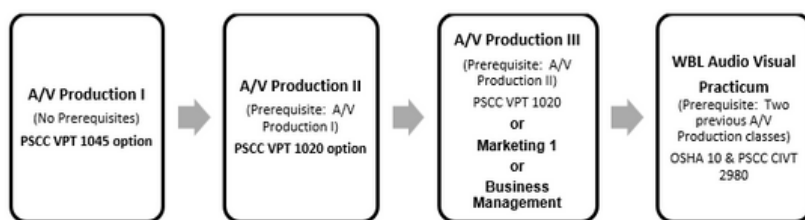
(1 credit)

- **Prerequisite: 2 credits in this program of study**
- **Application required**
- **Grade Level: 11th & 12th (students must be at least 16 years old)**
- **1 Industry Certification Available: OSHA-10 General Industry Course**
- **1EPSO Available: PSCC CIVT 2980 - Special Topics - 1 Credit Hour**

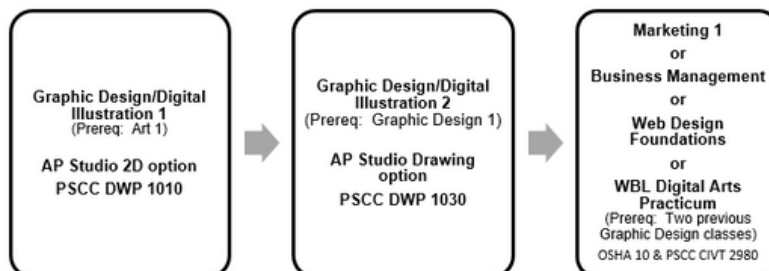
The WBL Career Practicum course provides students with the opportunity to apply classroom concepts in the workplace through paid or unpaid placements to support the development of career readiness knowledge and skills. Through experiences such as internships, apprenticeships, and paid cooperative work experiences, students may earn high school credit for capstone WBL experiences. WBL experiences can be a capstone course for all CTE programs of study and is open to 11th and 12th grade students (16 years or older) who have earned a minimum of 2 credits in a CTE program of study. Students must complete an application and receive CTE Focus Area teacher referral for consideration in WBL Career Practicum. See SchoolLinks registration or Counseling Canvas Page for Applications.

Career Cluster: Arts, Entertainment, & Design

A/V Production



Digital Arts & Design



A/V Production I

MHS Code: CTAV1SS TN Code: C11H01

(1 credit)

- Prerequisite: None
- Grade Level: 10-11
- 1 EPSSO 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. Students will assist as entry level operational technicians in the operational support for various school-related activities and programs. 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

MHS Code: CTAV2SS TN Code: C11H02

(1 credit)

- Prerequisite: A/V Production I
- Grade Level: 10-12
- 1 EPSSO available for LDC exam: Special Topics Guerilla Film Making PSCC 1020

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. Students will assist as intermediate operational technicians in the operational support for various school-related activities and programs. The class centers around the student produced program MTV.

A/V Production III

MHS Code: CTAV3SS TN Code: C11H03

(1 credit)

- Prerequisite: A/V Production I and II required
- Grade Level: 11-12
- Availability in the fall semester for afterschool filming requirements
- 1 EPSSO Available for LDC Exam: Special Topics Remote Field Production PSCC VPT 1020

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 assist as advanced operational technicians in the operational support for various school-related activities and programs.

Graphic Design/Digital Illustration I

MHS Code: FAGDDSS TN Code: C11H06

(1 credit)

- Prerequisite: Art 1
- Grade Level: 10-12
- 1 EPSSO available for LDC Exam: Design Basics for Web and Print PSCC DWP 1010

This course is a studio course that focuses on the different digital drawing techniques and programs. Students will learn to use Photoshop and Illustrator to design and create artwork such as composited photography, logos, t-shirt designs, as well as fine art drawings. It will explore the use of digital media create artwork. Students will learn how the Adobe Photoshop and Illustrator Programs work and will work to achieve Adobe Certified Associate status in one or both programs. Students that have met the AP Studio 2D requirements for the AP test may submit their final portfolio to the College Board for AP credit. A materials fee will be charged.

Graphic Design/Digital Illustration II**(1 credit)****MHS Code: FAGDD2S TN Code: C11H05****•Prerequisite: Graphic Design/Digital Illustration II****•Grade Level: 10-12****•1 EPSO available for LDC Exam PSCC DWP 1030 Photoshop for Web and Print**

Applying design skills developed in prior courses, students will expand their creative and critical thinking skills to create comprehensive multimedia projects and three-dimensional designs. Upon completion of this course, proficient students will be able to use industry-standard software to create multimedia projects, web pages, three-dimensional models, and animations. Students will utilize research techniques to plan and enhance project outcomes. Standards in this course also include professionalism and ethics, career exploration, and business and project management. Students will learn how the Adobe Photoshop and Illustrator Programs work and will work to achieve Adobe Certified Associate status in one or both programs. Students that have met the AP Studio Drawing requirements for the AP test may submit their final portfolio to the College Board for AP credit. A materials fee will be charged.

WBL Audio/Visual Career Practicum**(1 credit)****MHS Code: CTWBAVP TN Code: C11H25**

- **Prerequisite: 2 credits in this program of study**
- **Application required**
- **Grade Level: 11th & 12th (students must be at least 16 years old)**
- **1 Industry Certification Available: OSHA-10 General Industry Course**
- **1EPSO Available: PSCC CIVT 2980 - Special Topics - 1 Credit Hour**

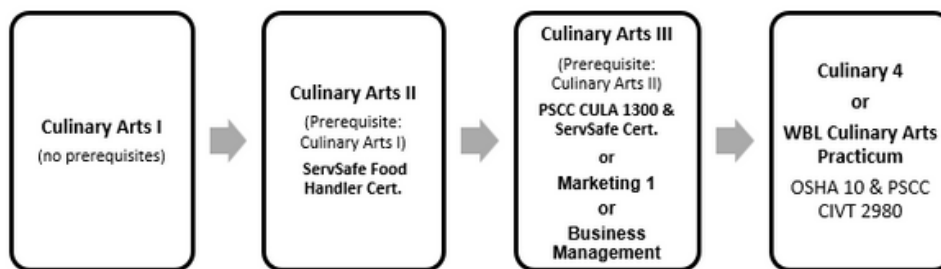
The WBL Career Practicum course provides students with the opportunity to apply classroom concepts in the workplace through paid or unpaid placements to support the development of career readiness knowledge and skills. Through experiences such as internships, apprenticeships, and paid cooperative work experiences, students may earn high school credit for capstone WBL experiences. WBL experiences can be a capstone course for all CTE programs of study and is open to 11th and 12th grade students (16 years or older) who have earned a minimum of 2 credits in a CTE program of study. Students must complete an application and receive CTE Focus Area teacher referral for consideration in WBL Career Practicum. See SchoolLinks registration or Counseling Canvas Page for Applications.

WBL Digital Arts Career Practicum**(1 credit)****MHS Code: CTWBDDP TN Code: C11H26**

- **Prerequisite: 2 credits in this program of study**
- **Application required**
- **Grade Level: 11th & 12th (students must be at least 16 years old)**
- **1 Industry Certification Available: OSHA-10 General Industry Course**
- **1EPSO Available: PSCC CIVT 2980 - Special Topics - 1 Credit Hour**

The WBL Career Practicum course provides students with the opportunity to apply classroom concepts in the workplace through paid or unpaid placements to support the development of career readiness knowledge and skills. Through experiences such as internships, apprenticeships, and paid cooperative work experiences, students may earn high school credit for capstone WBL experiences. WBL experiences can be a capstone course for all CTE programs of study and is open to 11th and 12th grade students (16 years or older) who have earned a minimum of 2 credits in a CTE program of study. Students must complete an application and receive CTE Focus Area teacher referral for consideration in WBL Career Practicum. See SchoolLinks registration or Counseling Canvas Page for Applications.

Career Cluster: Hospitality and Events
Culinary Arts



Culinary Arts I

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

- **Grade Level: 9-11**

(1 credit)

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 lab fee will be charged.

Culinary Arts II

MHS Code: CTCA2SS TN Code: C16H07

- **Prerequisite: Culinary Arts I**
- **Grade Level: 10-12**
- **1 industry certification available: ServSafe Food Handler**

(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 lab fee will be charged.

Culinary Arts III

MHS Code: CTCA3SS TN Code: C16H08

- **Prerequisite: Culinary Arts 1 & 2**
- **Grade Level: 10-12**
- **1 EPSO available for LDC exams: Sanitation and Food Safety Pellissippi State CULA 1300**
- **1 industry certification available: ServSafe Food Manager (can be used at PSTCC for CULA1300)**

(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 lab fee will be charged.

Culinary Arts IV

MHS Code: CTCA4SS TN Code: C16H09

- **Prerequisite: Culinary Arts 1, 2 & 3**
- **Grade Level: 12**
- **Application required**

(1 credit)

Culinary Arts IV is an on campus capstone course in the Culinary Arts program of study intended to prepare students for careers in entry-level food and beverage careers. Course content reinforces the components of commercial kitchen safety and sanitation, food presentation, bakeshop preparation skills, sustainability practices, professionalism, and business opportunities. Upon completion of this course, proficient students will have applied the full range of knowledge and skills acquired in this program of study to the planning and catering of an instructor-approved event. A lab fee will be charged.

WBL Culinary Arts Career Practicum or Apprenticeship

MHS Code: CTWBCAP TN Code: C16H21

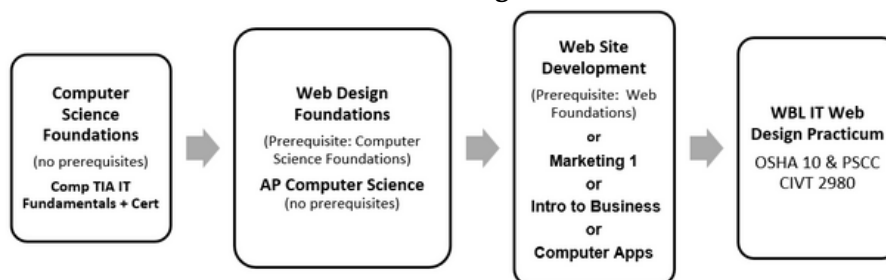
- **Prerequisite: 2 credits in this program of study**
- **Application required**
- **Grade Level: 11th & 12th (students must be at least 16 years old)**
- **1 Industry Certification Available: OSHA-10 General Industry Course**
- **1EPSO Available: PSCC CIVT 2980 - Special Topics - 1 Credit Hour**

(1 credit)

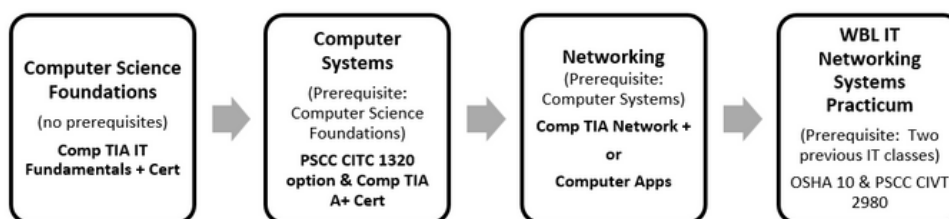
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Career Cluster: Digital Technology

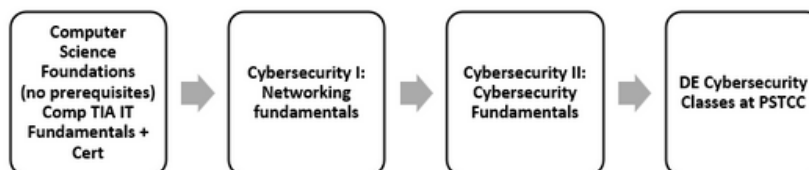
Web Design



Networking Systems



Cybersecurity Pilot



Computer Science Foundations

(1 credit)

MJHS Code: CTSCF MHS Code: CTCFSFSS TN Code: C10H11

- **Grade Level: 9-11**
- **1 industry certification available: Comp TIA IT Fundamentals + Certification or Comp TIA Tech + Certification**
- **Fulfills the computer science requirement and may substitute for fourth year science, fourth year math course, or as one course in an elective focus pathway.**

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: CTCSYSS TN Code: C10H10

- **Prerequisite: Computer Science Foundations**
- **Grade Level: 10-12**
- **2 EPSO available LDC from Pellissippi State for A+ Hardware CITC 1321 & A+ Software CITC 1322**
- **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: Hardware and Computer Systems: Software**
- **Grade Level: 10-12**
- **1 EPSO available for LDC: Introduction to Networking Pellissippi State CITC 1302**
- **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: 10-12**
- **Fulfills the computer science requirement and may substitute for fourth year science, fourth year math course, or as one course in an elective focus pathway.**
- **1 EPSO available**
- **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**
- **This course may substitute for the fine art graduation requirement.**
- **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.

Cybersecurity 1

(1 credit)

MHS Code: CTCYBER TN Code: C10H19

- **Career Kickstart pilot by AP - first course in a two course progression**

This is a full-year high school course that covers the fundamentals of networking. It is equivalent to a college-level Introduction to Networking course. The course interweaves essential networking concepts with relevant, hands-on problem-solving activities to maximize students' understanding of network hardware and configuration, the use of protocols to enable reliable and accurate transmission of data between different hosts around the world, and relevant security practices that secure the transmission of data both within and between computer networks.

WBL Networking Systems Career Practicum or Apprenticeship

(1 credit)

MHS Code: CTWBNSP TN Code: C10H42

WBL Technology Career Practicum or Apprenticeship

(1 credit)

MHS Code: CTWBTCP TN Code: C21H48

WBL Web Design Career Practicum or Apprenticeship

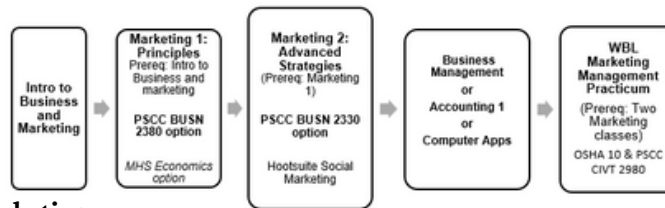
(1 credit)

MHS Code: CTWBWDP TN Code: C10H43

- **Prerequisite: 2 credits in this program of study**
- **Application required**
- **Grade Level: 11th & 12th (students must be at least 16 years old)**
- **1 Industry Certification Available: OSHA-10 General Industry Course**
- **1EPSO Available: PSCC CIVT 2980 - Special Topics - 1 Credit Hour**

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Career Cluster: Marketing and Sales Marketing Management



Introduction to Business and Marketing MHS Code: CTBUSMK TN Code: C12H26

(1 credit)

- **Grade Level 10-11**

Introduction to Business and Marketing is an introductory course designed to give students an overview of the Business Management and Administration and Marketing Management Programs of Study. The course helps students prepare for the growing complexities of the business world by examining basic principles of business, marketing, and finance in addition to exploring key aspects of leadership, ethical and social responsibilities, and careers. Students' academic skills in communication, mathematics, and economics are reinforced with activities modeled in the context of business topics. Upon completion of this course, proficient students will be equipped to determine whether to enter the Business Management or Marketing Management program of study.

Marketing 1

(1 credit)

MHS Code: CTMK1SS TN Code: C31H00

- **Prerequisite: Intro to Business and Marketing**
- **Grade Level: 10-11**
- **This course may substitute for the graduation requirement of Economics only.**
- **1 EPISO available for LDC exam: Principles of Marketing Pellissippi State BUSN 2380 and/or CLEP Principles of Marketing**

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. A CLEP opportunity may be provided by the course instructor.

Marketing and Management 2

(1 credit)

MHS Code: CTMK2SS TN Code: C31H01

- **Prerequisite: Marketing 1**
- **Grade Level: 11-12**
- **1 EPISO available for LDC exam: Principles of Marketing Pellissippi State BUSN 2330**
- **1 industry certification available: Hubspot Social Marketing 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 an industry certification [<https://hubspot.com/resources/courses/social-media>] 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. A CLEP opportunity may be provided by the course instructor.

Computer Applications

(1 credit)

MHS Code: CTCCAPP TN Code: C12X00

- **Grade level: 11-12**
- **1 industry certification available: Microsoft Office Specialist – Word, Excel, PowerPoint**
- **1 EPISO available for LDC exam: Computer Applications Pellissippi State INFS 1010**

Computer Applications is an upper level course in which students can earn dual credit by passing all three Microsoft Office Specialist tests [<https://learn.microsoft.com/en-us/credentials/certifications/microsoft-office-specialist-associate-2019/>]. 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. 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.

WBL Marketing Management Career Practicum

(1 credit)

MHS Code: CTWBMMP TN Code: C31H28

- **Prerequisite: 2 credits in this program of study**
- **Application required**
- **Grade Level: 11th & 12th (students must be at least 16 years old)**
- **1 Industry Certification Available: OSHA-10 General Industry Course**
- **1 EPISO Available: PSCC CIVT 2980 - Special Topics - 1 Credit Hour**

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Career Cluster: Business Management & Administration



Introduction to Business and Marketing

(1 credit)

MHS Code: CTBUSMK TN Code: C12H26

- Grade Level 10-11

Introduction to Business and Marketing is an introductory course designed to give students an overview of the Business Management and Administration and Marketing Management Programs of Study. The course helps students prepare for the growing complexities of the business world by examining basic principles of business, marketing, and finance in addition to exploring key aspects of leadership, ethical and social responsibilities, and careers. Students' academic skills in communication, mathematics, and economics are reinforced with activities modeled in the context of business topics. Upon completion of this course, proficient students will be equipped to determine whether to enter the Business Management or Marketing Management program of study.

Accounting 1

(1 credit)

MHS Code: CTAC1SS TN Code: C29H00

- Prerequisite: Intro to Business and Marketing
- 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 Management

(1 credit)

MHS Code: CTBUSMG TN Code: C12H17

- Prerequisite: Intro to Business and Marketing
- Grade Level: 11-12
- Can count as the Personal Finance Credit for graduation

Business Management focuses on the development of the planning, organizing, leading, and controlling functions required for the production and delivery of goods and services. This applied knowledge course addresses the management role of utilizing the businesses' resources of employees, equipment, and capital to achieve an organization's goals. Students will participate in a continuing project throughout the course in which, individually or in teams, they will present recommendations to improve an existing business. Local business partnerships are encouraged to provide resources for faculty and students. Upon completion of this course, proficient students will be able to complete a full review of an existing business and offer recommendations for improvement as would a management consultant.

Computer Applications

(1 credit)

MHS Code: CTCCAPP TN Code: C12X00

- Grade level: 11th or 12th
- 1 industry certification available: Microsoft Office Specialist – Word, Excel, PowerPoint
- 1 EPISO available for LDC exam: Computer Applications Pellissippi State INFS 1010

Advanced Computer Applications is an upper level course in which students can earn dual credit by passing all three Microsoft Office Specialist tests [<https://learn.microsoft.com/en-us/credentials/certifications/microsoft-office-specialist-associate-2019/>]. 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. 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.

WBL Business Career Practicum

(1 credit)

MHS Code: CTWBBMP TN Code: C12H61

- Prerequisite: 2 credits in this program of study
- Application required
- Grade Level: 11th & 12th (students must be at least 16 years old)
- 1 Industry Certification Available: OSHA-10 General Industry Course
- 1 EPISO Available: PSCC CIVT 2980 - Special Topics - 1 Credit Hour

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Enrollment in these courses is by teacher placement only.

English Language Development: A recommendation is required

MJHS Code: ELD08

The ESL course teaches English language acquisition ELPA standards in conjunction with content standards. These standards provide the language support necessary to enable the English Learner (EL) to access the grade level content curriculum. It also focuses on improving the reading, writing, listening, and speaking skills of EL's in context.

English Language Development: A recommendation is required

(1 credit)

MJHS Code: ELD09 TN Code: G22H00

- **Grade Level: 9**

The ESL course teaches English language acquisition ELPA standards in conjunction with content standards. These standards provide the language support necessary to enable the English Learner (EL) to access the grade level content curriculum. It also focuses on improving the reading, writing, listening, and speaking skills of EL's in context.

ESL Support

MHS Code: TN Code: G22H04

- **Grade level: 10-12**

This course is offered to all ESL students in grades 10-12 who have scored a 3.5 or higher on the WIDA assessment. The purpose of this class is to provide subject specific support while continuing language development.

English Language Development

MHS Code: SAESES0 TN Code: G22H01

- **Grade level: 10**

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. Students enrolled in this course have scored a 3.4 or below on the WIDA Assessment.

English Language Development

MHS Code: SAESES1 TN Code: G22H02

- **Grade level: 11**

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. Students enrolled in this course have scored a 3.4 or below on the WIDA Assessment.

English Language Development

MHS Code: SAESES2 TN Code: G22H03

- **Grade level: 12**

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. Students enrolled in this course have scored a 3.4 or below on the WIDA Assessment.

Fundamental English 2

(1 credit)

MHS Code: SPEN2FY TN Code: G01H10

- **Grade level: 10**

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: G01H11

- **Grade level: 11**

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: G01H13**
• **Grade level: 12**

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**

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

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**

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: SPCASSA 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.

Work Based Learning (1 credit)
MHS Code: SPWBLSS TN Code: S25H01

Work-Based Learning (WBL) is a proactive approach to bridging the gap between high school and high-demand, high-skill careers in Tennessee. Students build on classroom-based instruction to develop employability skills that prepare them for success in postsecondary education and future careers. Through experiences like internships, apprenticeships, and paid work experiences, students may earn high school credit for capstone WBL experiences.

Principles of Transition: Introduction to Self-determination (1 credit)
MHS Code: SPPTSSD TN Code: S25X28

This course is designed to equip students with knowledge concerning the legal rights of individuals with a disability and how to advocate from themselves in their school and community settings.

Alternative Academic Diploma (AAD) Courses

AAD Personal Finance (.5 credit)
MHS Code: SPFINAL TN Code: S25H02

Students enrolled in this course are working towards an Alternate Academic Diploma. This course is aligned to the standards of Personal Finance with modifications to pace and depth. Instruction in this class will focus on financial responsibility and personal decision making, credit and debt, and money management.

AAD US Government and Civics (.5 credit)
MHS Code: SPGOVAL TN Code: S25H00

Students enrolled in this course are working towards an Alternate Academic Diploma. This course is aligned to the standards of Government with modifications to pace and depth. Instruction in this class will focus on the branches of governments, local and state government, civic liberties, and citizen participation.

AAD Economics (.5 credit)
MHS Code: SPECOAL TN Code: S04H03

Students enrolled in this course are working towards an Alternate Academic Diploma. This course is aligned to the standards of Economics with modifications to pace and depth. Instruction in this class will focus on trade, role of government, and supply and demand.

AAD US History (1 credit)
MHS Code: SPUSHALT TN Code: S04H01

Students enrolled in this course are working towards an Alternate Academic Diploma. This course is aligned to the standards of US History with modifications to pace and depth. Instruction in this class will focus on important historical events and figures from 1877 to present day.

AAD Biology 1 (1 credit)
MHS Code: SPBIOAL TN Code: S03H02

Students enrolled in this course are working towards an Alternate Academic Diploma. This course is aligned to the standards of Biology with modifications to pace and depth. Instruction in this class will focus on fundamental biological principles, diversity of life, flow of matter and energy, biological evolution, and biodiversity.

AAD Physical Science
MHS Code: SPPHYSAL TN Code: S03H00

(1 credit)

Students enrolled in this course are working towards an Alternate Academic Diploma. This course is aligned to the standards of Physical Science with modifications to pace and depth. Instruction in this class will focus on matter, motion, and energy and their interactions.

AAD English 2
MHS Code: ENSPECS TN Code: S01H01

(1 credit)

Students enrolled in this course are working towards an Alternate Academic Diploma. This course is aligned to the standards of English 2 with modifications to pace and depth. Instruction in this class will focus on foundational literacy skills, novel studies, and essay writing.

AAD English 3
MHS Code: SPENGAL TN Code: S01H02

(1 credit)

Students enrolled in this course are working towards an Alternate Academic Diploma. This course is aligned to the standards of English 3 with modifications to pace and depth. Instruction in this class will focus on foundational literacy skills, novel studies, and essay writing.

AAD English 4
MHS Code: SPENGALT TN Code: S01H03

(1 credit)

Students enrolled in this course are working towards an Alternate Academic Diploma. This course is aligned to the standards of English 4 with modifications to pace and depth. Instruction in this class will focus on foundational literacy skills, novel studies, and essay writing.

AAD Algebra 2
MHS Code: SPALGL TN Code: S02H01

(1 credit)

Students enrolled in this course are working towards an Alternate Academic Diploma. This course is aligned to the standards of Algebra 2 with modifications to pace and depth. Instruction in this class will focus on the number systems, solving and evaluating equations, inferencing, and interpreting data.

AAD Geometry
MHS Code: MASPECS TN Code: S02H02

(1 credit)

Students enrolled in this course are working towards an Alternate Academic Diploma. This course is aligned to the standards of Geometry with modifications to pace and depth. Instruction in this class will focus on geometric properties with equations, geometric modeling, circles, and triangles.

AAD Applied Mathematical Concepts
MHS Code: SPAPMALT TN Code: S02H03

(1 credit)

Students enrolled in this course are working towards an Alternate Academic Diploma. This course is aligned to the standards of Applied Math with modifications to pace and depth. Instruction in the class will focus on financial mathematics, real world problem solving, life skills, and interpreting data.

Principles of Transition: Focus on Adulthood
MHS Code: SPPTSSS TN Code: S25H03

(1 credit)

Students enrolled in this course are working towards an Alternate Academic Diploma. This course is designed to equip students with the knowledge and skills necessary to transition into post-secondary community involvement and independent living. Through a series of in-class and out-of-class activities, students will refine their self-awareness through a discovery process and then learn about relevant community supports and how to access them.

Wellness, Physical Education, and Driver's 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 MHS Code: PEWELSS TN Code: G08H02

- **Grade Level: 9, 10-12**

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. The goal of this class is to equip students with knowledge and skills to make informed health decisions throughout their lives. 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.

The goal for Physical Education is for students to experience multiple forms of activity through games and exercise. Some activities include badminton, pickle ball, ping-pong, Frisbee golf, Ultimate Frisbee, tennis, several mainstream team sports such as volleyball and basketball, and other outdoor games. Ultimately, students will experience several activities that will create a lifelong love for indoor and outdoor recreation and social interaction with peers. In addition, students will gain a knowledge of sports safety, care of equipment, importance of teamwork, and building a foundation for a healthy lifestyle.

Weight Lifting

(.5 credit)

MHS Code: PEWTLS TN Code: G08H00

Beginning Weight Training is a beginner-focused, science-based class designed to teach students the techniques necessary for effective and safe weight training. This course emphasizes designing and implementing basic weight training programs while prioritizing proper form and foundational knowledge. Unlike strength and conditioning classes, Beginning Weight Training focuses exclusively on resistance training and does not include elements such as speed training, plyometrics, balance, coordination, agility, or endurance training. It is ideal for individuals new to lifting or those who enjoy weight training and prefer a straightforward approach without the complexity of sport-specific training.

Strength and Conditioning

(.5 credit)

MHS Code: PESACSS TN Code: G08H01

Strength & Conditioning is a PE 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.

Request for Credit for outside activity

The State of Tennessee requires all students earn a half credit of Physical Education credit to graduate from high school. This credit may be obtained through PE class, participation in one of the school's sanctioned sports teams, school sponsored sports program, or an off campus physical activity that is supervised by adult (coach, instructor, teacher, but not a parent) for a season.

Students who wish to acquire their PE half credit from a source other than MHS, must submit an application, a log of times and dates of participation, as well as a schedule for the outside sport and a business card for the coach/company.

The activity must meet the following requirements:

1. The activity must be pre-approved.
2. The student must complete 65 hours of activity.
3. Students are allowed to earn a maximum of 1/2 credit of PE.
4. Credit will be granted with a pass; no grade will be given.

Applications for credit for an outside activity are provided in guidance and must be returned to the school counselor.

KEY TERMS

Early postsecondary opportunities (EPSOs) include a course and/or exam that give students a chance to obtain postsecondary credit while still in high school.

Early postsecondary opportunities allow students to:

- earn postsecondary credits while in high school.
- become familiar with postsecondary rigor and expectations.
- develop confidence and skills for success in postsecondary learning.
- make informed postsecondary and career decisions.
- decrease the time and cost of completing a certificate or degree.

Maryville High School is proud to offer a variety of EPSO opportunities for students:

- Advanced Placement Courses
- College Level Examination Program
- Dual Enrollment
- State Dual Credit
- Local Dual Credit
- Industry Certifications

The College Board's **Advanced Placement (AP) Program** provides an opportunity for high school students to experience postsecondary-level coursework across multiple subjects. Each course is aligned to a subject-specific AP exam, which provides students the potential to earn credit for postsecondary coursework in that subject.

Developed by the College Board, **College Level Examination Program (CLEP)** exams can be taken by students and adults to assess mastery of postsecondary-level material acquired in a variety of ways, including through general academic instructions, significant independent study or extracurricular work. Students can earn credit for postsecondary coursework in a specific subject. Examinations are currently offered in 33 subjects at test centers across the state. Maryville High School is a testing center.

Dual enrollment (DE) is a postsecondary course, taught either at the postsecondary institution, at the high school, or online, by postsecondary faculty or credentialed adjunct faculty. Students are enrolled at the postsecondary institution and earn postsecondary credit upon completion of the course. High school credit is awarded based on local policy.

The dual enrollment grant is one of the Tennessee Education Lottery Scholarships, and it provides grant funding for dual enrollment tuition and fees. The dual enrollment grant pays the full cost of tuition and fees for up to five dual enrollment courses at a community college. DE opportunities are available with Maryville College or Pellissippi State Community College.

Statewide dual credit (SDC) classes are college-level courses taught at the high-school level by trained high-school teachers. Course learning objectives are developed by Tennessee high school and college faculty in order to ensure alignment with post-secondary standards. All students enrolled in a statewide dual credit course take the online challenge exam, which is used to assess mastery of the postsecondary-level learning objectives. Students which meet or exceed the exam 'cut score' receive college credit that can be applied to any Tennessee public postsecondary institution.

Local dual credit (LDC) is a high school course aligned to a local postsecondary institution's course and exam. Students who pass the exam earn credits that are accepted and/or recognized by the local postsecondary institution. Courses are taught by licensed high school teachers or certified college instructors approved by the school system and the postsecondary institution. Maryville HS works with Pellissippi State Community College to offer LDC opportunities to our students.

Industry certifications (IC) are earned through secondary and postsecondary career and technical education programs and courses. Industry certifications are work-related credentials, certifications or licenses that:

1. Test to verify qualifications of competence in a specific skill set relates to a particular industry or occupation
2. Are issued by an industry-related organization or state licensing body
3. Are accepted by employers as a recognized credential.

High school students are encouraged to focus their elective credits on robust, career-aligned learning experiences.

Apprenticeship is an opportunity for junior or senior level students who have completed a career experience at MHS. It is an employer driven model that combines structured on-the-job training with job-related instruction at a school or training program tied to the attainment of industry-recognized skills standards and leading into an industry credential. Youth apprenticeship graduates have skills for a successful career in a specialized field and can continue with adult apprenticeship, be hired full time with business, or continue their education and training for more advanced credentials or degrees.



Ruth and Steve West
Workforce Development Center

Programs of Study Guides for:
TCAT Welding

Welding Technology Dual Enrollment

The Welding program prepares the student for certification in a variety of welding techniques and processes. Students begin doing basic welding beads and progress step-by-step to achieve the final goal of pipe welding. Progression is monitored and mastery of each technique is achieved by a combination of classroom, individual, and text book instruction. Graduates of the Welding program will be able to demonstrate competencies in flame cutting, electric ARC welding, gas tungsten, gas metal ARC welding, and flux-cored ARC welding processes.

Course:	Welding Dual Enrollment	Hours:
DE 1000:	Semester 1	
WEL 1010	Safety	15 Hours
WEL 1020	Cutting Processes	10 Hours
WEL 1030	Basic Shielded Metal Arc Welding	130 Hours
	Total	150 Hours
DE 2000:	Semester 2	
WEL 1010	Safety	5 Hours
WEL 1020	Basic Shielded Metal Arc Welding	10 Hours
WEL 1030	Advanced Shielded Metal Arc Welding	135 Hours
	Total	150 Hours
DE 3000:	Semester 3	
WEL 1020	Related Math	10 Hours
WEL 1030	Advanced Shielded Metal Arc Welding	115 Hours
WEL 2040	Blue Print Reading	25 Hours
	Total	150 Hours
DE 4000:		
WEL 1020	Related Math	9 Hours
WEL 2040	Blue Print Reading	100 Hours
WEL 2030	Gas Tungsten Arc Welding	41 Hours
	Total	150 Hours

Completion Awards Offered by TCAT Knoxville

Required Hours

Shielded Metal Arc Welder	Certificate	432
Gas Metal Arc Welder	Certificate	864
Gas Tungsten Arc Welder	Certificate	1296
Combination Welder	Diploma	1296

TCAT Knoxville Welding Program Locations :

Main Campus:
1100 Liberty Street, Knoxville, TN 37919

Instructional Service Center at Oak Ridge High School:
1450 Oak Ridge Turnpike, Oak Ridge, TN 37830

Extension Campus
Anderson County Higher Education Center:
220 Frank L. Diggs Drive, Clinton, TN 37716

Instructional Service Center at
Ruth and Steve West Workforce Development Center:
2731 West Lamar Alexander Parkway, Friendsville, TN 37737

For more information:

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