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Course Catalogue

2018-19

Class of 2019

Class of 2020

Class of 2021

Maryville High School and the Maryville City Schools reserve the right to add, delete, or change requirements, course offerings, and services at any time without prior notice.

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MINIMUM GRADUATION REQUIREMENTS

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

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

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

³ World Language and Fine Arts may be waived for students not planning to attend a four-year college or university and 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 MHS faculty member that has been recommended by the P.E. department and approved by the administration.

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

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

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

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 guidance 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.

MHS ELECTIVE FOCUS AREAS

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

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

Fine Arts

(In addition to one credit required for graduation)

Advanced Mixed Chorus

AP Music Theory

Art 1

Art History AP

Band

Clay/Ceramics

Drama 1; Intermediate Drama; Drama 2

Drawing

Intermediate Female Chorus

Intermediate Male Chorus

Orchestra

Painting

Studio Art/Digital Photography

Studio Art/Drawing AP

Studio Art/3D AP

Studio Art/2D AP

AP Seminar, Senior Transition, College Success 1500 or
Independent Project

World Crafts

Exercise, Safety, and Sports Science

(In addition to 1 credit in Wellness and .5 credit in P.E.)

***3 credits from the following (PE courses may be repeated for multiple credits)**

Strength & Conditioning (for Classes of 2019 and 2020)

Team Sports (for Classes of 2019 and 2020)

P.E.

Driver's Education

Students are encouraged to enhance and expand this focus area by taking any of the following related courses:

Anatomy & Physiology

Health Science Education

Senior Program Course

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.

Architecture and Construction

Fundamentals of Construction
Residential and Commercial Construction I
Residential and Commercial Construction II
Work Based Learning Career Practicum

Arts, Audio/Visual Technology, & Communications

A/V Production I
A/V Production II
A/V Production III
AP English 3 Language and Composition
Work Based Learning Career Practicum

Business Management and Administration

Intro to Business & Marketing (not for Class of 2021)
Business Communications
Accounting 1
Advanced Computer Apps
Work Based Learning Career Practicum

Finance

Intro to Business & Marketing (not for Class of 2021)
Accounting I
DE Probability & Statistics or AP Statistics
Work Based Learning Career Practicum

Hospitality & Tourism: Culinary Arts

Culinary Arts I
Culinary Arts II
Culinary Arts III
Work Based Learning Career Practicum

Information Technology – Networking Systems

Computer Science Foundations
Computer Systems
Networking (Coming in 2019-2020)
Work Based Learning Career Practicum

Humanities

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

Ancient World History
European History AP
AP Music Theory
Foreign Language Teaching Ambassadors
French 1, 2, 3H, 4H, AP
Human Geography AP
Contemporary Issues (Honors)

Advanced Manufacturing

Principles of Manufacturing (MJHS)
Digital Electronics
DE Mechatronics I and II
Work Based Learning Career Practicum

Law, Public Safety, Corrections & Security

Criminal Justice 1
Criminal Justice 2
Criminal Justice 3
Work Based Learning Career Practicum

Information Technology – Web Design

Web Design Foundations
Web Site Development
Work Based Learning Career Practicum

Health Science

Health Science Education
Emergency Medical Services
Medical Therapeutics
Clinical Internship
Anatomy & Physiology
Nursing Education

STEM

Introduction to Engineering (MJHS)
Principles of Engineering PLTW
Computer & Software Engineering
Digital Electronics
AP Physics
Work Based Learning Career Practicum

Marketing Management

Intro to Business & Marketing (not for Class of 2021)
Marketing & Management I
Marketing & Management II
Work Based Learning Career Practicum

Journalism--Yearbook
Latin 1, 2, 3H, 4H, AP
Psychology AP
Spanish 1, 2, 3H, 4H, AP
World History
Dual Enrollment Courses related to focus
AP Seminar, Senior Transition, College Success 1500 or

Science and Math

(In addition to courses required for graduation)

Biology AP
Chemistry AP
Calculus H
Calculus AB AP
Calculus BC AP
Statistics AP
Chemistry AP
Chemistry 1CP
Chemistry 1H
Crime Scene Investigations

Environmental Science AP
Human Anatomy and Physiology
Natural Science/Biology 2
Physics 1
Physics 1 AP
Physics 2 AP
Dual Enrollment Courses related to focus area
AP Seminar, Senior Transition, College Success 1500 or
Independent Project

Advanced Placement

*** 3 courses from the following:**

AP Art History
AP Biology
AP English 3
AP English 4
AP Calculus AB
AP Calculus BC
AP Computer Science
AP Chemistry
AP Economics
AP Environmental Science
AP French
AP Government
AP Human Geography

AP European History
AP Latin
AP Music Theory
AP Physics 1
AP Physics 2
AP Psychology
AP Research
AP Seminar
AP Spanish
AP Statistics
AP Studio Art Drawing, Studio Art 3D, Studio Art 2D
AP United States History

Dual Enrollment

*3 approved dual enrollment courses

REQUIRED ASSESSMENTS

End-Of-Course (EOC) exams are given in English 1, English 2, Algebra 1, Algebra 2, Geometry, U.S. History, and Biology that 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.

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.

DEMONSTRATING POST SECONDARY READINESS

MHS requires that students select ACT Readiness Preparation and Reading as one of their electives when needed to demonstrate post-secondary readiness. Students who have achieved or surpassed college readiness benchmarks on the

ACT will be permitted an exemption but may take courses as electives. Sophomores will have the opportunity to take the ACT Readiness Preparation course based on achievement readiness prior to the junior year. Readiness can be shown by

- 1) Meeting the subtest benchmarks on the ACT and achieving an ACT composite score of 21.

Test	ACT	College Course
English	18	English Comp
Reading	22	Social Science
Mathematics	22	Algebra
Science	23	Biology

- 2) Earning a combination of 4 AP or Dual Enrollment credits
- 3) Earning a combination of 2 AP or Dual Enrollment credits along with an industry certification.

SELECTION CRITERIA FOR ACADEMIC HONOR DISTINCTIONS:

Selection of students will be based on the following requirements:

MARYVILLE HIGH SCHOOL HONOR ROLL

- 1) Must have one complete term of grades at MHS at the time of selection;
- 2) Must attain a B (3.0) average or better
- 3) Must have a satisfactory record of attendance
- 4) May not have any out-of-school suspensions

MARYVILLE SCHOLARS AND NATIONAL HONOR SOCIETY

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

NATIONAL HONOR SOCIETY

The C. D. Curtis Chapter of the National Honor Society is composed of juniors and seniors who have shown outstanding leadership, service, character, and scholarship. Juniors who have met the requirements listed above and who have a weighted GPA of 4.0 or above after the December grading period will be invited into membership. These students will be inducted into the MHS Chapter of the National Honor Society at an evening ceremony in February. Inductees must complete a minimum of 10 hours of service prior to the senior year. Senior members must complete a minimum of 15 additional hours of service on NHS-sponsored projects. Special recognition will be given at graduation to seniors who have exceeded the service expectations: a silver award for 35+ hours of service and a gold award for 50+ hours of service.

MARYVILLE SCHOLARS

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

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 9-12

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

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

- 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 Dual Enrollment and Local Dual Credit passing course work, and State-wide Dual Credit classes who sit for the identified statewide dual credit challenge exam shall have 4 percentage points added to the grades used to calculate the semester average.
- Advanced Placement (AP), Cambridge International, College Level Exam Program (CLEP), and International Baccalaureate (IB) Courses shall include addition of 5 percentage points to the grades used to calculate the semester average for students who sit for the identified exam.

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

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

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

Semester Average = 94

GRADE POINT AVERAGE AND CLASS RANK

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

Maryville High School does not provide a specific numerical rank except to determine valedictorian and salutatorian and as a component for selection as a Maryville Scholar. However, to assist college admission personnel in the evaluation of our students, the distribution of grade point averages by 5% increments will be provided. Valedictorian and salutatorian will be announced at graduation through 2019. Only students enrolled in Maryville High School at the beginning of the tenth (10th) grade and attending through the twelfth (12th) grade are eligible to be valedictorian or salutatorian. For the graduating classes of 2020 and beyond

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

Summa Cum Laude : 4.45 and above

Magna Cum Laude: 4.25 – 4.44

Cum Laude: 3.95 – 4.24

MHS GPA QUALITY POINT TRANSCRIPT CALCULATION FOR COURSES

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

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

PASS/FAIL GRADING

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

Criteria for Graded Course Waiver

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

SUMMER SCHOOL

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

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

CREDIT RECOVERY

Credit recovery is a course-specific, skill-based extended learning opportunity for students who have previously been unsuccessful in mastering content or skills required to receive course credit or earn promotion. Credit recovery programs, in general, have a primary focus of helping students stay in school and graduate on time. To be eligible for credit recovery, the student must have previously taken an initial, non-credit recovery section of the proposed course and received a grade of not less than fifty percent (50%). Students who receive a grade of below fifty percent (50%) in the non-credit recovery section of the course must re-take the course. Students successfully completing credit recovery coursework receive a grade of 70%.

CHANGE OF SCHEDULE

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

ATHLETIC ELIGIBILITY

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

NON-TRADITIONAL COURSE POLICY

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

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

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

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

COLLEGE CREDIT COURSES

The Advanced Placement (AP) Program

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

Specific course descriptions can be found by academic discipline in this catalogue.

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

Early College Experience Programming

Dual Enrollment

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

- A. 19 or higher on all ACT sub-scores and composite
- B. 3.0 G.P.A.
- C. Completion of Maryville High School Dual Enrollment Registration (accompanied by copy of college admission application and copy of dual enrollment grant application – (submit copies to the guidance office)
- D. Registration in Maryville High School's Early College Experience – (submit copies to the guidance office)
- E. Completion of Maryville High School's Early College Experience Release – (submit copies to the guidance office)
- F. Admission into college by completing college application (found on college website) – (submit copies to the guidance office)
- G. Completion of Dual Enrollment Grant Application – (submit copies to the guidance office)
- H. Completion of Hepatitis B Form – (submit copies to the guidance office)
- I. Payment of college tuition
- J. Transportation to college courses
- K. Purchase of college textbooks
- L. To maintain the Dual Enrollment Lottery Scholarship, students must maintain a 2.75 G.P.A. in their college courses

If students enrolled in college courses take these classes on the college campus, students must follow their school's rules and schedules. On the days and times students are not on the college campus, they will report for their normal high school classes at Maryville High School, following the rules and schedules of MHS. Some Dual Enrollment classes may be taught at MHS.

Students may pursue college credit in the academic areas of English, psychology, and biology and in any other academic course approved by the administration. Certain dual enrollment courses are also offered through the Career and Technical Education Program and area community colleges, Roane State and Pellissippi State. These courses have different admissions requirements. For additional information, please refer to Career and Technical course descriptions.

Dual Credit

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

The following steps must be completed for students who wish to enroll in dual enrollment classes:

- A. 19 or higher on all ACT sub-scores and composite
- B. 3.0 G.P.A.
- C. Completion of Maryville High School Dual Enrollment Registration (accompanied by copy of college admission application and copy of dual enrollment grant application – (submit copies to Mrs. Burchfield in room 331)
- D. Registration in Maryville High School's Early College Experience – (submit copy to Mrs. Burchfield in room 331)
- E. Completion of Maryville High School's Early College Experience Release – (submit copy to Mrs. Burchfield in room 331)
- F. Admission into college by completing college application (found on college website) – (submit copy to Mrs. Burchfield in room 331)
- G. Completion of Dual Enrollment Grant Application – (submit copy of grant application and bring to Mrs. Burchfield in room 331)
- H. Completion of Hepatitis B Form – (submit copy to Mrs. Burchfield in room 331)
- I. Payment of college tuition
- J. Transportation to college courses
- K. Purchase of college textbooks
- L. To maintain the Dual Enrollment Lottery Scholarship, students must maintain a 2.75 G.P.A. in their college courses

If students enrolled in college courses take these classes on the college campus, students must follow their school's rules and schedules. On the days and times students are not on the college campus, they will report for their normal high school classes at Maryville High School, following the rules and schedules of MHS. Dual Enrollment classes are offered on or off the Maryville High School campus, depending on teacher and classroom availability.

Students may pursue college credit in the academic areas of English, psychology, and biology and in any other academic course approved by the administration. Certain dual enrollment courses are also offered through the Career and Technical Education Program and area community colleges, such as Pellissippi State. These courses have different admissions requirements. For additional information, please refer to Career and Technical course descriptions.

PELLISSIPPI STATE

Students who have ACT subscores of 19 or higher and a composite of 19 or higher, along with a 3.0 G.P.A., have the privilege of earning college credit through Pellissippi State. Students wishing to pursue college credit must meet several criteria.

ENCP1DS – DE English Composition I 1010 (with College Credit at Pellissippi State) (1 credit)

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

ENPS1DS – DE English Composition II 1020 (with college credit at Pellissippi State) (1 credit)

DE English Composition II 1020 includes analytic writing based on the study of literature and the study and practice of research writing. DE English Composition II 1020 meets 2 or 3 days per week on the Pellissippi State campus. English Composition II 1020 is a 3-hour college course and is a level II MHS course, which earns .5 bonus point on the MHS grade point average and 1 bonus point on the MHS grade point average beginning with the class of 2019. (Students who score

a 4 or 5 on the AP Junior English, Language and Composition Exam will be eligible to receive credit for 1010 and can move on to English Composition 1020.)

SSPS1DS- DE Psychology (with college credit)

(1 credit)

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.

SCBI1DS- DE Biology (with college credit)

(1 credit)

Prerequisite: Biology 1 and Chemistry 1

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

DE Calculus

(1 credit)

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

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

DE Elementary Probability and Statistics

(1 credit)

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

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

MARYVILLE COLLEGE

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

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

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

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

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

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

MARYVILLE HIGH SCHOOL COURSES OFFERINGS:

(All courses are not offered every year)

Fine Arts

CHORAL ARTS

Advanced Mixed Chorus - FAAMCSS

(2 credits)

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

This course covers intermediate and advanced levels of music literacy, vocal production, performance preparation, and public performance. The choir will perform repertoire of intermediate and advanced-level difficulty from all stylistic periods (5-6 on a scale of 1 to 6) under the name "The Maryville Chorale" or "The Maryville Singers," depending on group size and performance context.

Intermediate Female Chorus - FAIFCSS

(1 credit)

This course is appropriate for beginning through advanced-level choral students, and may be repeated. Admission is restricted to female students, but no audition is required. The course covers the basics of music literacy, vocal production, performance preparation, and public performance. The choir will perform repertoire of intermediate-level difficulty from all stylistic periods (3-4 on a scale of 1 to 6) under the name "The Belles of Maryville." A course fee will be charged.

Intermediate Male Chorus - FAIMCSS

(1 credit)

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

DRAMATIC ARTS

Dramatic Arts 1- FADR1SS

(1 credit)

This course is open to all students and will include both speech and theatre components. It will emphasize the basic principles of speech preparation, delivery, and evaluation, and basic acting and stage techniques. This course will include monologues, acting scenes, improvisation, pantomime, research on a major playwright, writing, and interpersonal communications. A fee will be charged.

Drama 2 Intermediate - FADR2SS

(1 credit)

- **Prerequisite:** One credit in Dramatic Arts 1

Students will perform and participate in a variety of theatre experiences to expand upon what was learned in Drama 1 with emphasis on movement, voice production and articulation, character analysis and development, technical theatre, directing, playwrighting, and film. There will be a course fee.

Drama 2 (Play Production) - FAPLYSS

(1 credit)

- **Prerequisite:** One credit in Dramatic Arts 1
- **Percentage points are available to students completing local dual credit requirements.**

- **Note: Advanced acting ability expected for enrollment in this course.**

This course is open to students who have successfully completed Dramatic Arts 1. Students will participate in full-length evening/weekend performances for the school and community and will also prepare a professional portfolio, a monologue, and partner scenes with emphasis on character development. This course may be repeated for up to six credits. Evening and weekend rehearsals will be required. Students are expected to pay the cost of their costume rental, and/or scripts and T-shirts. There will be a course fee.

INSTRUMENTAL ARTS

Band

(1 credit or ½ credit)

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

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

FABNDSQ Band – 2nd Band class for students interested in taking band every day one semester- ½ credit

FABGUSA Band- Field Guard (Fall only)- ½ credit

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

Orchestra

(1 credit or ½ credit)

FAORCSS – Yearlong A/B day schedule for 1 credit

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

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

MUSIC THEORY

AP Music Theory - FAMUSPS

(1 credit)

- **Prerequisite: Teacher approval (Mr. Ford, Mr. Wilkinson, and Mr. Davis) is required before registering for this class.**
- **Percentage points and quality points are available to students completing course work and state/college board exams.**

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

VISUAL ARTS

AP Studio Art Drawing - FASADAS

(1 credit)

- **Prerequisite: Art 1**
- **Percentage points and quality points are available to students completing course work and state/college board exams.**

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

AP Art History - FAHISPS (1 credit)

- **Percentage points and quality points are available to students completing course work and state/college board exams.**

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

AP Studio Art 2-D - FASA2AS (1 credit)

- **Percentage points and quality points are available to students completing course work and state/college board exams.**
- **Prerequisite: Art 1**

The AP Studio Art 2-D course is intended for highly motivated students who are seriously interested in the study of art. AP course requirements are significantly more rigorous and students should demonstrate commitment and accomplishment while enrolled. It is recommended for the AP student to have previous training in art or be able to demonstrate through a portfolio an ability to create fine art. The course is designed as an intensive one-year program. The course is the infusion of new ideas and constructed around meaning and an enduring idea. Students who choose to take AP course work are expected to take the AP exam and will be responsible for its cost.

AP Studio Art 3-D - FASA3AS (1 credit)

- **Prerequisite: Art 1**
- **Percentage points and quality points are available to students completing course work and state/college board exams.**

The AP Studio Art 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.

Art 1 - FAAR1SS (1 credit)

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. A materials fee will be charged. This course will be offered both terms and is a prerequisite for all studio art courses.

Clay/Ceramics - FACLYSS (1 credit)

- **Prerequisite: Art 1**

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, modeling, and using a potter's wheel. Students will prepare and present a portfolio at the end of the course. For advanced students, the curriculum will be modified to develop their skills and techniques. A materials fee will be charged.

Digital Photography - FASAPSS

(1 credit)

- **Prerequisite:** Art 1, Priority given to juniors and seniors.
- **Percentage points are available to students completing local dual credit requirements.**

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 - FADRWSS

(1 credit)

- **Prerequisite:** Art 1

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 - FAPAIS

(1 credit)

- **Prerequisite:** Art 1

This course is a studio course that focuses on the different paint media, styles, and techniques. 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.

World Crafts

Semester class – FACFTSS

(1 credit)

A/B Day – FACFTSB

(.5 credit)

- **Prerequisite:** none

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. Major traditional crafting techniques we will learn include paper crafting, fabric dying, calligraphy, stained glass, basket weaving, and metal tooling.

English

Four credits of English are required for graduation. One English course should be selected each year from the normal sequence.

AP Junior English, Language and Composition

(1 credit)

- **Percentage points and quality points are available to students completing course work and state/college board exams.**
- **NCAA Eligibility Qualifying Course**

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 identify major American literary genres and historical periods; 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 3 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.

Instruction of this course will be delivered in three formats:

- semester-long AP Junior English
- year-long combined studies-AP Junior English & AP US History on A/B schedule
- AP Junior English & AP Seminar on an A/B schedule.

AP Senior English 4, Literature and Composition

(1 credit)

- **Percentage points and quality points are available to students completing course work and state/college board exams.**
- **NCAA Eligibility Qualifying Course**

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

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

(1 credit)

Percentage points and quality points are available to students completing course work and state/college board exams.

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.

English 2 (Sophomore), College Preparatory

(1 credit)

- **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 TNReady testing.

English 2 (Sophomore), Honors

(1 credit)

- **Percentage points and quality points are available to students completing course**
- **NCAA Eligibility Qualifying Course**

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

English 3 (Junior), College Preparatory

(1 credit)

- **NCAA Eligibility Qualifying Course**

This survey course on American literature focuses on the following: learning basic principles of grammar and usage; increasing vocabulary skills; constructing various types of strong sentences; emphasizing organization, content, and style in written work; writing persuasive essays and literary analyses; recognizing the various elements of literature; developing reading skills through the short story, drama, and novel; and demonstrating library skills through research. One formal research paper will be required. Students will also practice critical thinking skills and prepare for standardized testing.

English 4 (Senior), College Preparatory

(1 credit)

- **NCAA Eligibility Qualifying Course**

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

Journalism – Yearbook- ENYRBSS

(1 credit)

Prerequisite: Application required

(Students wishing to enroll in this class for the entire year must select ENYRBSS Journalism-Yearbook as a course request as well as ENYEASS Journalism-Yearbook.)

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

Mathematics

All students are required to complete a mathematics course sequence including Algebra 1, Algebra 2, Geometry, and one additional mathematics course. The Maryville High School mathematics program provides multiple opportunities for advanced study and significant flexibility in the scheduling of those course options. Thus, students are strongly advised to develop a plan for their mathematics courses in consultation with parents, guidance counselors, and mathematics teachers. This plan should reflect a student's aptitude, interests, and post-secondary aspirations and should be reviewed annually for continued applicability.

Calculator Requirements

Calculators are an important component of mathematics instruction, practice, assessment, and application at every level. Each mathematics class at the Algebra 2 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 MHS Mathematics Department uses Texas Instruments models TI-83 and TI-84 and will base instruction on these models. Either is adequate. For certain topics in each class, use of graphing calculators will not be allowed. At such times, the teacher may furnish students an appropriate 4-function or scientific calculator (The TI-30 is often used by the department) to use during classroom instruction and testing.

Algebra 2 Honors (1 credit)

- Percentage points and quality points are available to students completing course work.
- NCAA Eligibility Qualifying Course

Algebra 2A CP (1 elective credit)

- NCAA Eligibility Qualifying Course

Algebra 2B CP (Credit for Algebra 2 will be given upon completion of Algebra 2B) (1 credit)

- NCAA Eligibility Qualifying Course

Algebra 2 CP (1 credit)

- NCAA Eligibility Qualifying Course

Three levels of Algebra 2 instruction are offered. 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 and introduces the mathematics student to higher-order polynomial, rational, and transcendental functions. In accordance with the Tennessee Department of Education Curriculum Standards, Algebra II emphasizes polynomial, rational and exponential expressions, equations, and functions. This course also introduces students to the complex number system, basic trigonometric functions, and foundational statistics skills such as interpretation of data and making statistical inferences. Students build upon previous knowledge of equations and inequalities to reason, solve, and represent equations and inequalities numerically and graphically.

Applied Mathematical Concepts (1 credit)

- Prerequisite: Algebra 2 and senior standing
- Percentage points are available to students completing local dual credit requirements.
- NCAA Eligibility Qualifying Course

Applied Mathematical Concepts is a fourth year mathematics course. Applications and modeling using mathematics are the primary focus of this course. Mathematical clusters include: financial mathematics, linear programming, logic and Boolean algebra, problem solving, investigative logic, interpreting data, combinatorics, normal probability distributions, as well as confidence intervals.

AP Calculus AB (1 credit)

- Prerequisites: Pre-Calculus H; placement based on previous performance. This course is intended for students with senior status.
- Percentage points and quality points are available to students completing course work and state/college board exams.
- NCAA Eligibility Qualifying Course

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

AP Calculus BC (1 credit)

- Prerequisites: AP Calculus AB; placement based on previous performance. This course is intended for senior students wanting to pursue post-secondary programs in mathematics, science, or engineering or for advanced mathematics students wishing to fulfill college mathematics requirements through Advanced Placement credit.
- Percentage points and quality points are available to students completing course work and state/college board exams.
- NCAA Eligibility Qualifying Course

AP Calculus BC is the second half of a two term sequence of calculus that follows AP Calculus AB. This is a college-level calculus course in the theory, techniques, and applications of single variable calculus with emphasis on functions, graphs,

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

AP Statistics

(1 credit)

- **Prerequisites:** Pre-Calculus H or CP, Algebra 3/Trig, or Algebra 2 H
- **Percentage points and quality points are available to students completing course work and state/college board exams.**
- **NCAA Eligibility Qualifying Course**

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

Bridge Math/SAILS

(1 credit)

This class, designed as a culminating math course for seniors, combines many of the concepts learned in Algebra and Geometry classes with a focus on topics covered on the ACT. An ACT math subscore below 19 is a requirement for placement in this class. Students enrolled in Bridge Math will have the opportunity to complete the SAILS (Seamless Alignment and Integrated Learning Support) program through Pellissippi State. The SAILS program is designed to allow students to work self-paced through the curriculum and receive credit for five competencies covered in remedial math courses at most colleges throughout the state of Tennessee.

DE Calculus

(1 credit)

- **Prerequisite:** Pre-Calculus CP and Teacher Recommendation
- **Percentage points and quality points are available to students completing course work and state/college board exams.**

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

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

DE Elementary Probability and Statistics

(1 credit)

- **Prerequisite:** Algebra 2 or Completion of SAILS math and Teacher Recommendation
- **Percentage points and quality points are available to students completing course work and state/college board exams.**

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

Geometry CP

(1 credit)

- **NCAA Eligibility Qualifying Course**

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

Pre-Calculus Honors (1 credit)

- Percentage points and quality points are available to students completing course work and state/college board exams.
- **NCAA Eligibility Qualifying Course**

Pre-Calculus CP (1 credit)

- **Prerequisite: Algebra 2 and teacher recommendation**
- Percentage points are available to students completing local dual credit requirements.
- **NCAA Eligibility Qualifying Course**

Placement is based upon prior student performance. 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 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.

Science

For students expecting to attend a four-year college or university after graduation from Maryville High School, it is strongly recommended that a minimum of four science courses be taken. To achieve this, at least one science course must be taken every year. Credits in biology and chemistry or physics are required for graduation. Data have shown that students who take high school biology, chemistry, and physics score higher on the ACT test than students who do not complete these courses. In addition, many colleges and universities require incoming freshmen to complete a laboratory science in biology, chemistry, or physics regardless of their major. For these reasons, taking biology, chemistry and physics prior to graduation from Maryville High School is highly recommended.

AP Biology (1 credit)

- **Prerequisite: Biology 1 and Chemistry 1 (honors level recommended)**
- Percentage points and quality points are available to students completing course work and state/college board exams.
- **NCAA Eligibility Qualifying Course**

The AP Biology curriculum is designed to prepare students to take the College Board AP Biology test given in May of each year and for higher-level work in college biology. AP Biology follows the syllabus of the College Entrance Examination Board's Advanced Placement Program, including the areas of molecular and cellular biology, genetics and evolution, and organismal and population biology. Students will be required to attend additional classroom or laboratory sessions beyond the usual block schedule, which may be in the evenings or before school. Students who choose to take AP course work are expected to take the AP exam and will be responsible for its cost. A lab fee will be charged.

Chemistry 2 Honors & AP Chemistry (2 credits)

- **Prerequisite: Chemistry 1 and Algebra 2 (honors level recommended)**
- Percentage points and quality points are available to students completing course work and state/college board exams.
- **NCAA Eligibility Qualifying Course**

The Chemistry 2 Honors/AP Chemistry course is a year-long course designed to be the equivalent of the general chemistry course usually taken during the first college year. Students should attain depth of understanding of

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

AP Environmental Science (APES)

(1 credit)

- **Prerequisite: Biology 1 and Chemistry 1 (honors level recommended)**
- **Percentage points and quality points are available to students completing course work and state/college board exams.**
- **NCAA Eligibility Qualifying Course**

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. It is understood that students enrolled in the course will take the AP Exam. A lab fee will be charged.

AP Physics 1

(1 credit)

- **Prerequisites: Chemistry 1 (honors level recommended)
Algebra 2 [Mastery or On Track student achievement expected]**
- **Percentage points and quality points are available to students completing course work and state/college board exams.**
- **NCAA Eligibility Qualifying Course**

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

AP Physics 2

(1 credit)

- **Prerequisite: AP Physics 1**
- **Percentage points and quality points are available to students completing course work and state/college board exams.**
- **NCAA Eligibility Qualifying Course**

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

Biology I CP

(1 credit)

- **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.

Chemistry 1 Honors

(1 credit)

Prerequisite: Biology 1 and Algebra 1 (honors level recommended)

- **Percentage points and quality points are available to students completing the course.**
- **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.

Chemistry 1 CP

(1 credit)

- **Prerequisite: Biology 1 and Algebra 1**
- **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.

Crime Scene Investigations

(1 credit)

- **Prerequisite: Biology 1 and Chemistry 1**
- **NCAA Eligibility Qualifying Course**

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

Human Anatomy and Physiology

(1 credit)

- **Prerequisite: Biology 1 and Chemistry 1**
- **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.

Natural Science/ Biology 2

(1 credit)

- **Prerequisite: Biology 1 and Chemistry 1**
- **NCAA Eligibility Qualifying Course**

Biology II is a laboratory science which extends and broadens the biological principles learned in Biology I. Topics such as cells, taxonomy, morphology, physiology, and reproduction will be emphasized through the study of plants (botany) and animals (zoology). Students will learn the classification and identification of plants and animals, as well as discover the interrelationships and adaptations formed between living things and their environment. This class utilizes lectures, laboratory activities, dissections, group presentations, and field trips to emphasize the major scientific concepts. A lab fee will be charged. Open to 11th and 12th grade only.

Physical Science CP

(1 credit)

- **NCAA Eligibility Qualifying Course**

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

Physics 1 CP

(1 credit)

- **Prerequisites: Chemistry 1 and Algebra 2**
- **NCAA Eligibility Qualifying Course**

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

World Language

Completion of two years of the same world language is required for graduation under the Tennessee Diploma Project. It is also required for admission to the University of Tennessee and the State Board of Regents Universities. A third year of the same language is highly recommended and sometimes expected of students competing for scholarships, for admission into competitive universities, and for preparing for language placement exams.

AP French – FLFREPS

(1 credit)

- **Prerequisite: French 4 Honors**
- **Percentage points and quality points are available to students completing course work and state/college board exams.**
- **NCAA Eligibility Qualifying Course**

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 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 will be responsible for its cost.

AP Latin – FLLATPS

(1 credit)

- **Prerequisite: Latin 4 Honors**
- **Percentage points and quality points are available to students completing course work and state/college board exams.**
- **NCAA Eligibility Qualifying Course**

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

AP Spanish Language and Culture- FLSPAPS

(1 credit)

- **Prerequisite: Spanish 4 Honors**
- **Percentage points and quality points are available to students completing course work and state/college board exams.**
- **NCAA Eligibility Qualifying Course**

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 will be responsible for its cost.

AP Spanish Literature- FLSP2PS

(1 credit)

- **Prerequisite: AP Spanish Language and Culture**
- **Percentage points and quality points are available to students completing course work and state/college board exams.**
- **NCAA Eligibility Qualifying Course**

The AP Spanish Literature and Culture course, exclusively taught in Spanish, follows the Advanced Placement Curriculum

and is the equivalent of a third year Spanish college course in advanced Spanish. The course uses a thematic approach to introduce students to representative texts (short stories, novels, poetry, and essays) from Peninsular Spanish, Latin American, and United States Hispanic literature. Students develop proficiencies across the full range of communication modes (interpersonal, presentational, and interpretive), thereby developing their critical reading and analytical writing skills. Literature is examined within the context of its time and place, as students reflect on the many voices and cultures present in the required readings. The course also includes a strong focus on cultural connections and comparisons, including exploration of various media (e.g., art, film, articles, literary criticism). Students who choose to take AP course work are expected to take the AP exam and will be responsible for its cost.

Foreign Language Teaching Ambassadors - FLTAMSS

(1 credit)

- **NCAA Eligibility Qualifying Course**

This course is an innovative class whereby high school students will introduce elementary students to language and culture (French or Spanish) by using the skills of listening, speaking, reading, and writing. High school students will spend the first nine weeks learning developmental characteristics of the younger students and exploring teaching methods and materials. The second nine weeks will be devoted to a modern language experience at a local school or pre-school where they will plan with a coordinating teacher to share the world language with younger students. Prerequisites for the course are as follows: **must be able to provide their own transportation** and must have completed two terms of a modern world language (Spanish or French). A fee is charged.

French 1 - FLFR1SS

(1 credit)

- **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 - FLFR2SS

(1 credit)

- **Prerequisite: French 1**
- **NCAA Eligibility Qualifying Course**

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

French 3, Honors - FLFR3HS

(1 credit)

- **Prerequisite: French 2**
- **Percentage points and quality points are available to students completing the course.**
- **NCAA Eligibility Qualifying Course**

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

French 4, Honors - FLFR4HS

(1 credit)

- **Prerequisite: French 3 Honors**
- **Percentage points and quality points are available to students completing the course.**
- **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.

Latin 1 - FLLT1SS

(1 credit)

- **NCAA Eligibility Qualifying Course**

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

Latin 2 - FLLT2SS

(1 credit)

- **Prerequisite:** Latin 1
- **NCAA Eligibility Qualifying Course**

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

Latin 3, Honors - FLLT3HS

(1 credit)

- **Prerequisite:** Latin 2
- **Percentage points and quality points are available to students completing the course.**
- **NCAA Eligibility Qualifying Course**

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

Latin 4, Honors - FLLT4HS

(1 credit)

- **Prerequisite:** Latin 3 Honors
- **Percentage points and quality points are available to students completing the course.**
- **NCAA Eligibility Qualifying Course**

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

Spanish 1, CP - FLSP1SS

(1 credit)

- **NCAA Eligibility Qualifying Course**

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

Spanish 2, CP - FLSP2SS

(1 credit)

- **Prerequisite:** Spanish 1
- **NCAA Eligibility Qualifying Course**

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

Spanish 3, Honors - FLSP3HS

(1 credit)

- **Prerequisite:** Spanish 2
- **Percentage points and quality points are available to students completing the course.**
- **NCAA Eligibility Qualifying Course**

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

Spanish 4, Honors - FLSP4HS

(1 credit)

- **Prerequisite:** Spanish 3 Honors
- **Percentage points and quality points are available to students completing the course.**
- **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.

Social Studies

Ancient World History - SSANHSS

(1 credit)

- **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.

AP Economics - SSECOPS

(1credit)

- **Satisfies graduation requirements**
- **Percentage points and quality points are available to students completing course work and state/college board exams.**
- **NCAA Eligibility Qualifying Course**

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

AP European History - SSEURAS

(1 credit)

- **Prerequisite:** Completion of English courses at a level of Honors or AP
- **Percentage points and quality points are available to students completing course work and state/college board exams.**
- **NCAA Eligibility Qualifying Course**

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 Government - SSGOVPS

(1 credit)

- **Satisfies graduation requirements**

- **Percentage points and quality points are available to students completing course work and state/college board exams.**
- **NCAA Eligibility Qualifying Course**

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.

AP Human Geography - SSHGOPS

(1 credit)

- **Percentage points and quality points are available to students completing course work and state/college board exams.**
- **NCAA Eligibility Qualifying Course**

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.

AP Psychology - SSPSYPS

(1 credit)

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

- **Percentage points and quality points are available to students completing course work and state/college board exams.**
- **NCAA Eligibility Qualifying Course**

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. Students are required to complete a summer

assignment to acquaint themselves with basic terminology, theories, and disciplines in the field. The assignment is due on the first day of the school year. 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.

AP U.S. History

(1 credit)

- **Satisfies graduation requirements**
- **Percentage points and quality points are available to students completing course work and state/college board exams.**
- **NCAA Eligibility Qualifying Course**

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. A fee will be charged. Instruction of this course will be delivered in two formats, semester long AP US History or combined studies (AP US History & AP Junior English) year-long AB schedule.

Instruction of this course will be delivered in two formats:

- year-long AP US History
- AP Junior English & AP US History on an A/B schedule.

Contemporary Issues and Public Policy - SSCOISB

(.5 credits)

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. **It is highly recommended that students taking AP Government register for this class.**

Economics - SSECOSB

(.5 credit)

- **Satisfies graduation requirements**
- **NCAA Eligibility Qualifying Course**

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

Government – SSGOVSB

(.5 credit)

- **NCAA Eligibility Qualifying Course**
- **Satisfies graduation requirements**

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.

U.S. History, CP - SSUSHSS

(1 credit)

- **Satisfies graduation requirements**
- **NCAA Eligibility Qualifying Course**

U.S. History, CP, State Dual Credit Course - SSUSHHA

(1 credit)

- **Satisfies graduation requirements**
- **Percentage points and quality points are available to students completing course work and state/college board exams.**
- **NCAA Eligibility Qualifying Course**

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

World History - SSWHISS

(1 credit)

- **NCAA Eligibility Qualifying Course**

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

College & Career Readiness Program

MHS believes that one of our primary goals is to prepare students for the very important transition from high school to higher education, employment, or military service by providing opportunities to take greater responsibility for their learning and time management. The courses in the College & Career Readiness Program enable students to pursue in-depth areas of personal interest, to develop independent learning techniques, to become involved in a service learning experience, to engage in teamwork and consensus building, to connect to the community, to demonstrate learning in their

own way, to engage in moral, ethical and philosophical reasoning, to improve presentation skills, and to grow in independence, dependability, and intellectual curiosity so that they may find success and become lifelong learners.

Analytical Development and Strategic Reading - LPADRSB

(.5 credit)

This course is intended for sophomores working to meet all readiness benchmarks. The intent of the course is to help students develop critical thinking skills by analyzing, synthesizing, evaluating, and summarizing nonfiction texts related to content area reading similar to that studied at the college level. Students will learn to select and apply effective reading strategies to improve abstract problem solving, logic, visualizing information, and communicating creative responses. The student will be asked to infer, critique, and provide evidence while relating the text to outside experiences. Reading and brain development will be discussed as well as skills used in testing and for college level inquiry. Sophomores will be placed in this course based on readiness projections. Students who have satisfied readiness requirements may take the course as an elective.

Strategic Reading - LPSRDSB

(.5 credit)

The intent of this sophomore course is to help students develop better reading skills so they may read with competence, confidence, and better understanding. Students will strengthen reading skills to be able to read and respond critically, evaluate sources, and draw supportable conclusions. Emphasis will be placed on critical thinking, study skills, organization, development and utilization of vocabulary, and comprehension. Instruction will help students self-monitor and reflect on tasks and assignments in all content areas. Test-taking skills for successful performance on the ACT will also be reviewed. Sophomores will be placed in this course based on readiness projections.

Socratic Inquiry, Honors- LPSINHB

(.5 credit)

- **Prerequisite: is currently enrolled or has taken bonus point courses**
- **Percentage points and quality points are available to students completing course work and state/college board exams.**

Socratic Inquiry is a course designed as an elective for students who are taking AP classes and are projected to score well on the ACT. This class will assist students in developing questioning, advanced research, presentation and discussion skills. The class will be tied to the AP seminar and research capstone curriculum. The activities in the course will be designed to give students an in-depth look at the analytical and communication skills needed to be successful in college and adulthood. It will focus on Socratic methods of inquiry and will be student centered.

ACT Readiness Preparation - SRACTSB

(.5 credit)

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.

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 - SRSEMPs

(1 credit)

- **Prerequisites:** English 2 Honors, enrollment in English 3 AP

- **Percentage points and quality points are available to students completing course work and state/college board exams.**

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 Seminar will be offered as a yearlong A/B class and may be combined with another yearlong A/B class, including English 3 AP.

Instruction of this course will be delivered in two formats:

- year-long AP Seminar
- AP Junior English & AP Seminar on an A/B schedule.

AP Research - SRRESPS

(1 credit)

- New Course for 2018-2019
- **Prerequisite:** AP Seminar is a prerequisite for AP Research.
- **Percentage points and quality points are available to students completing course work and state/college board exams.**

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

College Success 1500 – SRCSSSS

(1 credit)

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

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

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

Internship/Independent Project - SRINDSS

(1 credit)

- **Prerequisites:** AP or Honors English and application

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

Senior Transition - SRTRNSS

(1 credit)

This course is designed to address the needs and interests of all seniors as they prepare for the next steps after graduation. It will emphasize the college 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. In the Fall Term 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 certain issues of college life. **Students who take this course must have access to transportation.** There is a fee for this course. This course fulfills the intent and purpose of the state recommended capstone experience.

Special Courses

Peer Tutoring - SAPRTSS

(1 credit)

- **Prerequisite: Application Required**

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

Teacher Assistant

(No Credit)

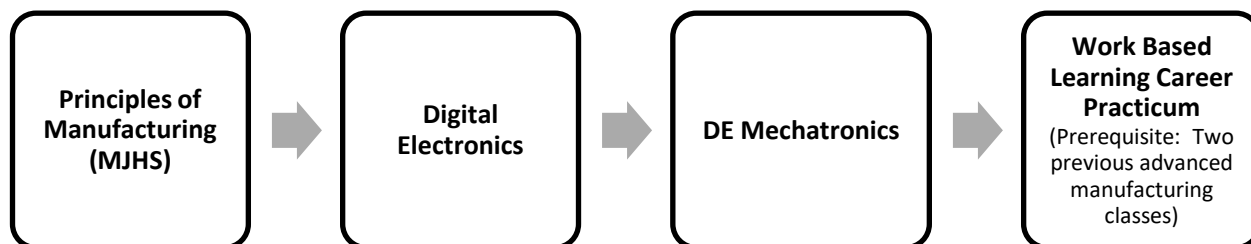
- **Semester course – SATASSS**
- **A/B day semester course – SATASSB**

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

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

Career and Technical Education

ADVANCED MANUFACTURING/MECHATRONICS



Digital Electronics – CTDIGSS

(1 credit)

- **Recommended: Principles of Engineering**

Digital Electronics is intended to provide students with an introduction to the basic components of digital electronic systems and equip them with the ability to use these components to design more complex digital systems. Standards in this course outline what students must know and do in order to (1) describe basic functions of digital components (including gates, flip flops, counters, and other devices upon which larger systems are designed), (2) use these devices as

building blocks to design larger, more complex circuits, (3) implement these circuits using programmable devices, and (4) effectively communicate designs and systems. Students develop additional skill in technical documentation when operating and troubleshooting circuits.

DE Mechatronics – CTELTDS

(1 credit)

- **Percentage points and quality points are available to students completing course work and state/college board exams.**

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

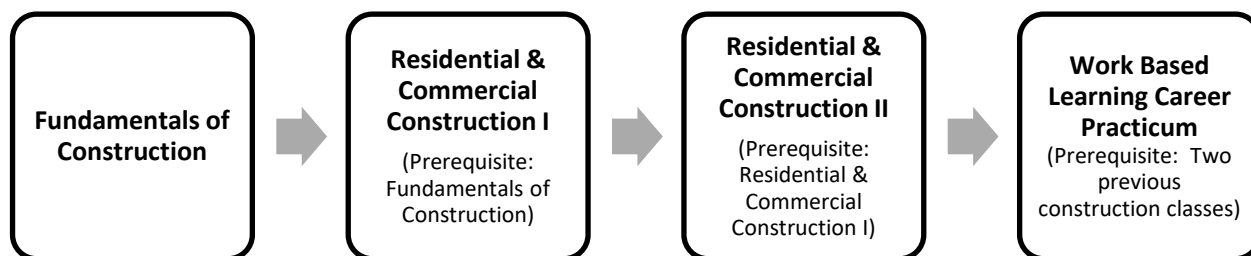
Work-Based Learning (WBL) Career Practicum- CTWBLSS

(1 credit)

- **Prerequisite: 2 credits in a CTE program of study; Application required**

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

ARCHITECTURE AND CONSTRUCTION



Fundamentals of Construction – CTFOCSS

(1 credit)

- **Percentage points are available to students completing local dual credit requirements.**

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

Residential and Commercial Construction I – CTRC1SS

(1 credit)

- **Prerequisite: Fundamentals of Construction**
- **Percentage points are available to students completing local dual credit requirements.**

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. The student is responsible for transportation to and from the job site.

Residential and Commercial Construction II – CTRC2SS

(1 credit)

- **Prerequisite: Fundamentals of Construction, Residential and Commercial Construction 1**
- **Recommended for 11th and 12th grade students**

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. The student is responsible for transportation to and from the job site.

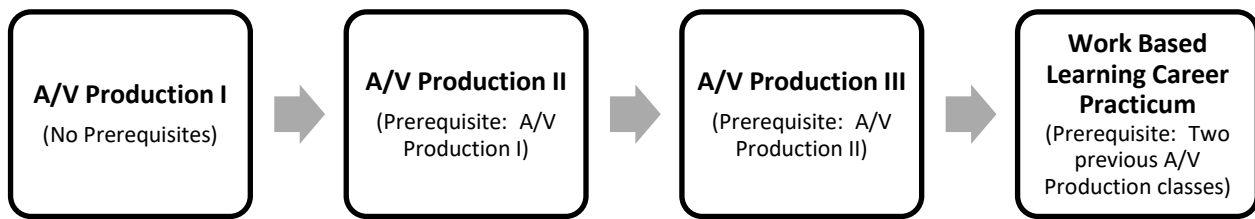
Work-Based Learning (WBL) Career Practicum- CTWBLSS

(1 credit)

- **Prerequisite: 2 credits in a CTE program of study; Application required**

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

ARTS, AUDIO/VISUAL TECHNOLOGY, & COMMUNICATIONS: AV PRODUCTION



A/V Production I – CTAV1SS

(1 credit)

- **Percentage points are available to students completing local dual credit requirements.**

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

A/V Production II – CTAV2SS

(1 credit)

- **Prerequisite: A/V Production I**
- **Percentage points are available to students completing local dual credit requirements.**

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. Upon completion of this course, students will be prepared to pursue advanced coursework.

A/V Production III – CTAV3SS

(1 credit)

- **Prerequisites: A/V Production I and II**

This advanced course is available to students who have completed Broadcasting I and II and are interested in pursuing advanced course work in audio and video technology.

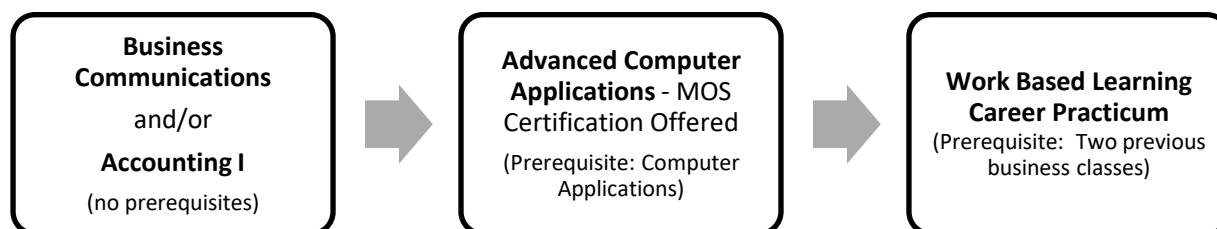
Work-Based Learning (WBL) Career Practicum- CTWBLSS

(1 credit)

- **Prerequisite: 2 credits in a CTE program of study; Application required**

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

BUSINESS MANAGEMENT & ADMINISTRATION: OFFICE MANAGEMENT



Accounting 1 - CTAC1SS

(1 credit)

This is an introductory course in bookkeeping and accounting. Students will analyze various accounting career opportunities. The accounting cycle, analyzing and recording business transactions, maintaining cash control systems, determining payroll and payroll taxes, and preparing financial statements represent the primary topics introduced for a proprietorship and a corporation. This course is recommended for any student planning to pursue a business-related major at the post-secondary level or for any student considering a career in any business or professional field. Working papers are required.

Advanced Computer Applications – CTIITSS

(1 credit)

- **Prerequisite:** Computer Applications
- **Percentage points are available to students completing local dual credit requirements.**

Advanced Computer Applications prepares students to continue postsecondary training in business-related programs, provides advanced training for students pursuing a career in administrative and information support, and supports obtaining an industry certification in specific software applications (such as the Microsoft Office Suite). If you meet certain course criteria, you may be eligible to earn industry certification(s) and/or earn credit at one of the following Technical or Community Colleges. Please verify with the college of your choice for specific criteria in a program or major - not all credits will transfer to all programs or majors.

Industry Certifications		ESSA Conversion	Website
Microsoft Office Specialist – Word, Excel, Access, PowerPoint		Industry certification	https://www.microsoft.com/en-us/learning/mos-certification.aspx
College Course	Course Number	CR	College
Computer Applications	INFS 1010	3.0	Pellissippi State Community College

Business Communications – CTBUSSS

(1 credit)

- **Recommended Prerequisite:** Computer Applications

Business Communications explores multiple forms of communication within a business environment. Emphasis is placed on writing, listening, speaking, nonverbal and interpersonal communication with internal and external business audiences. Students apply the principles learned to written exercises and oral presentations. If you meet certain course criteria, you may be eligible to earn industry certification(s).

Industry Certifications		ESSA Conversion	Website
Microsoft Office Specialist – Word, PowerPoint		Industry certification	https://www.microsoft.com/en-us/learning/mos-certification.aspx

Work-Based Learning (WBL) Career Practicum- CTWBLSS

(1 credit)

- **Prerequisite:** 2 credits in a CTE program of study; **Application required**

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



Health Science Education (Introductory Course) - CTHSESS

(1 credit)

- **Recommended Pre or Co-requisite:** Biology

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

Medical Therapeutics (Level 2 Course)- CTMTHSS

(1 credit)

- **Prerequisites:** Must have completed Health Science
- **Recommended Pre or Co-requisites:** Chemistry 1 and Anatomy and Physiology

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 – CTEMSSS

(1 credit)

- **Prerequisites:** Must have completed Health Science Education
- **Recommended pre or Co-requisites:** Chemistry 1 and Anatomy & Physiology
- **Percentage points and quality points are available to students completing course work and state/college board exams.**

This course is designed to introduce students to the field of emergency services and the various career opportunities within trauma and emergency medicine. The primary competencies include scene and patient assessment, triage, safety, CPR, and basic treatment of injuries and illness. This course satisfies the pre-requisite for progression into the Clinical Internship/ Nursing Education courses. A fee will be charged to cover the cost of lab supplies and CPR certification.

*Students who are age 17 by the end of the course may qualify to sit for the National Registry examination for First Responder certification. There are additional fees associated with National Registry First Responder Certification exam.

Industry Certifications	ESSA Conversion	Website
CPR Certification	Industry certification	https://www.redcross.org/take-a-class
National Registry First Responder Certification	Industry certification	https://www.nremt.org/rwd/public/document/emr

Clinical Internship -CTCINHS

(2 credits)

Nursing Education - CTNEDHS

- **Prerequisites:** EMS and/or Medical Therapeutics, Application Required, BLS Certification Required
- **Recommended:** Anatomy & Physiology
- **Percentage points and quality points are available to students completing course work and state/college board exams.**

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.

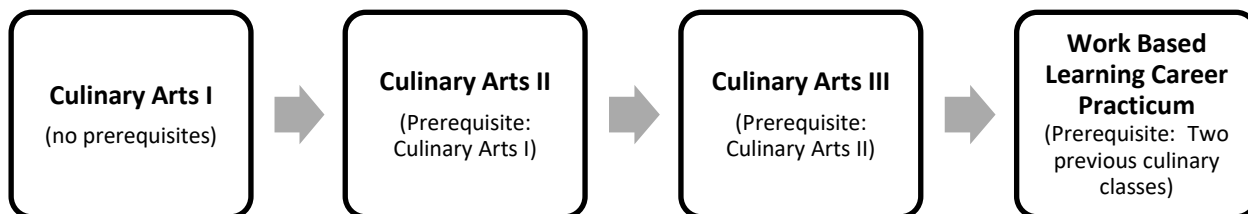
Clinical Internship enables students to utilize and apply previous learning to real clinical scenarios and provides insight into the reality of the health careers within their interest. Internships are available in careers related to nursing, veterinary medicine, radiology, dentistry, physical therapy,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

Industry Certifications	ESSA Conversion	Website
Certified Nursing Assistant (CNA)	Industry certification	https://tn.gov/health/article/hcf-nurseaide

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.

HOSPITALITY AND TOURISM: CULINARY ARTS



Culinary Arts I – CTCA1SS

(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 \$40 lab fee will be charged.

Culinary Arts II – CTCA2SS

(1 credit)

- **Pre-requisite:** Culinary Arts 1
- **Percentage points are available to students completing local dual credit requirements.**

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

Culinary Arts III – CTCA3SS

(1 credit)

- **Pre-requisite:** Culinary Arts 2
- **Percentage points and quality points are available to students completing course work and state/college board exams.**

Culinary Arts III is an advanced course intended to further equip students with the skills and knowledge needed to pursue a variety of careers in the culinary field. Upon completion of the course, students will be proficient in components of commercial kitchen safety and sanitation, dining room service, food preparation and presentation, bakeshop preparation skills and equipment, and advanced cooking principles. A \$40 lab fee will be charged.

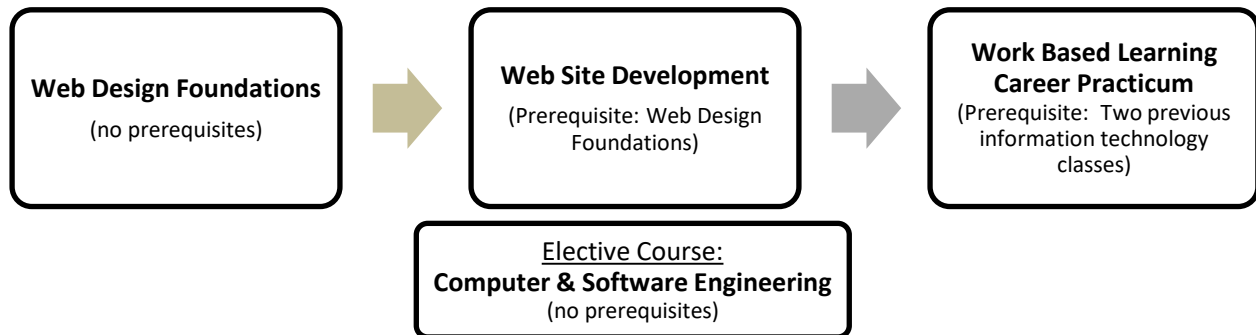
Work-Based Learning (WBL) Career Practicum- CTWBLSS

(1 credit)

- **Prerequisite:** 2 credits in a CTE program of study; **Application required**

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

INFORMATION TECHNOLOGY – WEB DESIGN



Web Design Foundations – CTWDFSS

(1 credit)

- **Prerequisite:** Computer Applications
- **Percentage points and quality points are available to students completing course work and state/college board exams.**

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 - CTWSDSS

(1 credit)

- **Prerequisite:** Web Design Foundations
- **Percentage points and quality points are available to students completing course work and state/college board exams.**

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

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

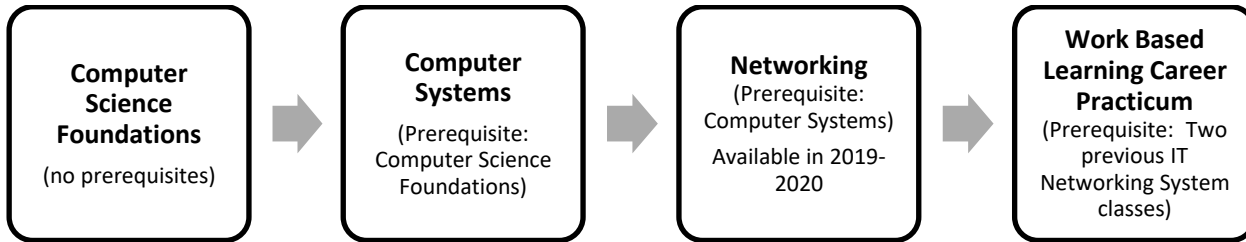
Work-Based Learning (WBL) Career Practicum- CTWBLSS

(1 credit)

- **Prerequisite: 2 credits in a CTE program of study; Application required**

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

INFORMATION TECHNOLOGY- NETWORKING SYSTEMS



Computer Science Foundations – CTCFSS

(1 credit)

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 – CTCSSYSS

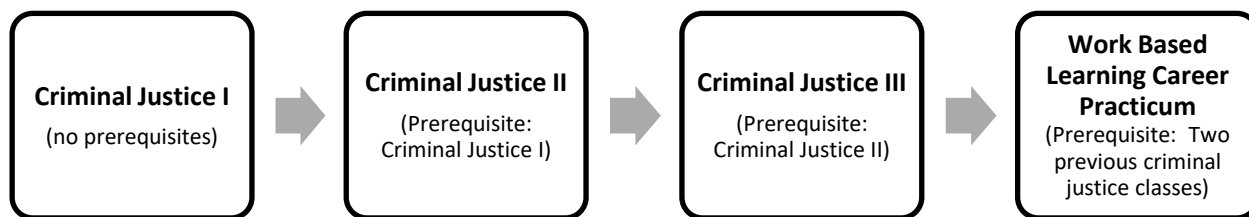
(1 credit)

- **Percentage points and quality points are available to students completing course work and state/college board exams.**

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.

Industry Certifications	ESSA Conversion	Website
Comp TIA's A+ Certification	Industry certification	https://certification.comptia.org/certifications/a

LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY: CRIMINAL JUSTICE & CORRECTION SERVICES



Criminal Justice 1 - CTCJ1SS

(1 credit)

- **NCAA Eligibility Qualifying Course**

Criminal Justice 1 is the first level of study of criminal justice careers. It prepares students for work-related knowledge and skills for advancement into the second level of criminal justice careers. Course content focuses on areas comprised of planning, managing, and providing judicial, legal, and protective services. The course is an overview of the legal justice system and builds a better understanding of the development of laws on state, federal, and international levels. New technology and career opportunities in criminal justice are an integral part of the course content.

Criminal Justice 2 - CTCJ2SS

(1 credit)

- **Prerequisite:** Criminal Justice 1
- **Percentage points and quality points are available to students completing course work and state/college board exams.**

Criminal Justice 2 is a continuation of Criminal Justice 1. The course will cover current job opportunities within the criminal justice field for local, state, federal, and international careers. Concepts and terminology developed through Criminal Justice 1 will be expanded through the course. Course content will introduce new technology and study the use of forensics in the criminal justice field. The Courts and Criminal Trial and Criminal Procedural Law will be the main focus of the course. The class will participate in field trips and projects to strengthen the concepts covered in the course. The course is open to students in grades 11 and 12. If you meet certain course criteria, you may be eligible to earn state-wide post-secondary dual credit. Please verify with the college of your choice for specific criteria in a program or major - not all credits will transfer to all programs or majors.

College Course	Course Number	CR	College
Intro to Criminal Justice	CRMJ 1010	3.0	State-Wide

Criminal Justice 3 - CTCR3SS

(1 credit)

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

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

DE Criminal Justice 2020 - CTCJ3DS

(1 credit)

- **Prerequisite:** Criminal Justice 1 & 2
- **Percentage points and quality points are available to students completing course work and state/college board exams.**

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

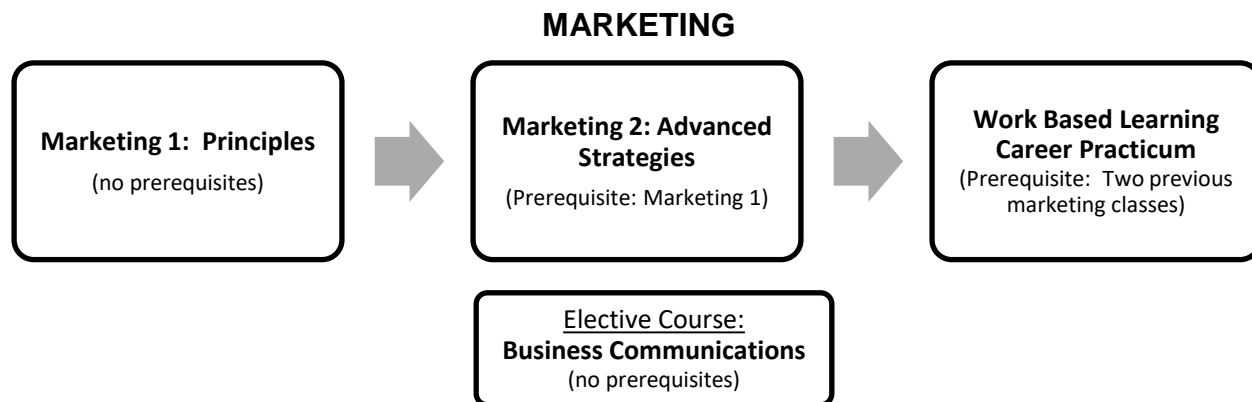
College Course	Course Number	CR	College
Intro to Corrections	CRMJ 2020	3.0	Roane State Community College

Work-Based Learning (WBL) Career Practicum- CTWBLSS

(1 credit)

- **Prerequisite:** 2 credits in a CTE program of study; Application required

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



Business Communications – CTBUSSS

(1 credit)

Business Communications explores multiple forms of communication within a business environment. Emphasis is placed on writing, listening, speaking, nonverbal and interpersonal communication with internal and external business audiences. Students apply the principles learned to written exercises and oral presentations.

Marketing 1- CTMK1SS

(1 credit)

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.** If you meet certain course criteria, you may be eligible to earn required high school graduation credits for the following courses:

MHS Course	Course Number	CR	
Economics	SSECOSB	0.5	Satisfies MHS Graduation Requirement
Personal Finance	Online	0.5	Satisfies MHS Graduation Requirement

Marketing and Management 2 - CTMK2SS

(1 credit)

- **Prerequisite:** Marketing and Management 1

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.

Work-Based Learning (WBL) Career Practicum- CTWBLSS

(1 credit)

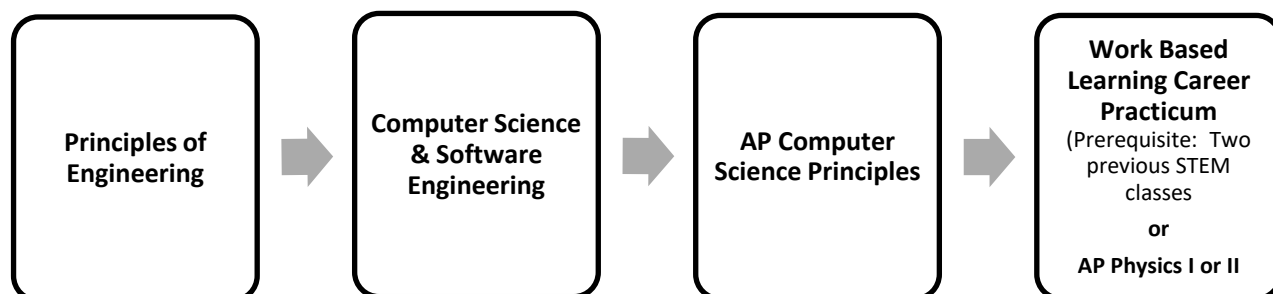
- **Prerequisite:** 2 credits in a CTE program of study; Application required

WBL experiences are activities at the high school level that involve actual work experience or connect classroom learning to work. Students have the opportunity to earn course credit while learning how to apply classroom concepts and theories

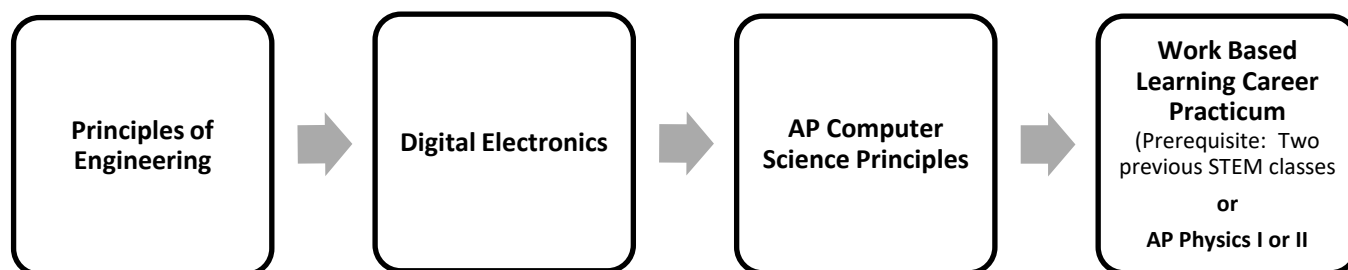
in the workplace through paid or unpaid placements. WBL experiences can be a capstone course for all Career and Technical Education programs of study. WBL is open to 11th and 12th grade students who have earned a minimum of 2 credits in a CTE program of study. **Application is required.**

SCIENCE, TECHNOLOGY, ENGINEERING, & MATHEMATICS PATHWAYS

ENGINEERING



TECHNOLOGY



AP Computer Science Principles – CTCSPPS

(1 credit)

- Percentage points and quality points are available to students completing course work and state/college board exams.

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 exams and/or submissions.

Computer Science and Software Engineering - CTCSESS

(1 credit)

Computer Science and Software Engineering (CSE) covers the College Board's new CS Principles framework. The course does not aim to teach mastery of a single programming language but aims instead to develop computational thinking, to generate excitement about the field of computing, and to introduce computational tools that foster creativity.

Students practice problem solving with structured activities and progress to open-ended projects and problems that require them to develop planning, documentation, and communication skills. Problems aim for ground-level entry with no ceiling, so that all students can successfully engage the problems but students with greater motivation, ability, or background knowledge will be challenged to work further.

Digital Electronics – CTDIGSS

(1 credit)

- **Recommended: Principles of Engineering**
- **Percentage points and quality points are available to students completing course work and state/college board exams.**

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

Principles of Engineering - CTPENSS

(1 credit)

- **Recommended: Introduction to Engineering Design**

This survey course of engineering exposes students to some of the major concepts they'll encounter in a postsecondary engineering course of study. Students have an opportunity to investigate engineering and high-tech careers while developing skills and understanding of course concepts. Students employ engineering and scientific concepts in the solution of engineering design problems. Students will use VEX Robotics kits and learn some basic programming. This course is designed for 10th or 11th grade students.

Work-Based Learning (WBL) Career Practicum- CTWBLSS

(1 credit)

- **Prerequisite: 2 credits in a CTE program of study; Application required**

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

Resource Program- Career and Technical Education

Enrollment in these courses is by teacher placement only.

This course is designed to provide specialized instruction to students identified as eligible for services under the Individuals with Disabilities Education Act (IDEA). The ultimate goal of the program is to help students develop saleable skills so they will be both employable in business and also more self-sufficient in life.

Work-Based Learning - SPWBLSS

(1 credit)

Work-Based Learning (WBL) allows students to apply classroom theories, explore career options and connect classroom learning to work. WBL is available both on campus in our student-run restaurant, Café Le Reve, and also at job sites within the Maryville community.

Resource Program- Academic

Enrollment in these courses is by teacher placement only.

Biology A - SPBIAFS

(1 credit)

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 - SPBIBFS

(1 credit)

- **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 Core Exam in Biology at the conclusion of this course.

Study Skills - SPCASSS

(1 credit)

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.

English 2 - SPEN2FY

(1 credit)

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, and writing assignments will emphasize constructing various types of strong sentences and improving organization, content, and style in written work. Students will complete a research project.

English 3 - SPEN3SS

(1 credit)

This course is for students who require individualized instruction in reading, writing, and language arts to prepare them to meet the requirements of the Common Core standards. This course addresses essential reading, writing, and language skills necessary in assisting students in becoming independent learners. This survey course on American literature focuses on the following: learning basic principles of grammar and usage; increasing vocabulary skills; constructing various types of strong sentences; emphasizing organization, content, and style in written work; writing persuasive essays and literary analyses; recognizing the various elements of literature; developing reading skills through the short story, drama, and novel; and demonstrating library skills through research. Students will complete one research project. Students will also practice critical thinking skills and prepare for standardized testing.

English 4 – SPEN4FS

(1 credit)

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 or training. Students will be exposed to British literature, grammar, and writing strengthens the students' essential language skills. 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 a unit focused on transition toward individual post-secondary goals. Students will complete a research project.

Functional English - SPFENTY

(1 credit)

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 - SPFMATY

(1 credit)

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.

Fundamental Algebra 1B - SPALBFY

(1 credit)

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 - SPGEAFS

(1 credit)

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 success on standardized testing.

Fundamental Geometry B - SPGEBFS

(1 credit)

- **Prerequisite: Fundamental Geometry A**

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

Wellness, Physical Education, and Driver Education

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

Driver Education - PEDE1SS

(.5 credit)

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.

Physical Education- PEFTFSB

(.5 credit)

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

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

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

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