

*Approved 3/4/24*

# MILLINGTON CENTRAL MIDDLE HIGH SCHOOL

## COURSE CATALOG 2024-2025



## HOME OF THE TROJANS

Millington Central Middle High School  
8050 West Street  
Millington, TN 38053  
(901) 873-8100



### **Administration**

Principal: Michael Perry  
Vice Principal: Zane Adams  
Assistant Principal: Sharon Harris  
Assistant Principal: Beth Hale  
Assistant Principal: John Hawkins

### **School Counselors**

Ashleigh Currie  
Kaylin Greganti  
Brenda Lawson  
Tarique Martin



### **Mission Statement**

The mission of Millington Central High School is to educate all learners in a safe environment and prepare students to function effectively as members of an ever-changing global and technological society.

### **Introduction**

The Millington Central High School Course Catalog provides a general description of courses available. Because course availability is determined by a variety of factors, not every elective course is offered every year. Courses may be unavailable contingent on student interest, budgetary constraints, or staffing. Parents and students may use this directory as a reference for graduation requirements, course offerings, course prerequisites, course credits, and course descriptions.



## Counseling Services

Grade-level school counselors meet with each of their students individually each year. Emphasis is placed on academic advice and planning for a successful four-year program in preparation for continued post-high school education and the world of work. Enrichment visits are made to the classrooms to discuss among various topics: study skills, decision-making, test taking skills, transcripts, calculating the GPA, and state mandated testing. The Counseling Department organizes workshops for parents and students on financial aid, College and Career Fairs, college admissions procedures, college requirements, and scholarships. Our guidance counselors provide student support services to enhance the academic, career, and social/emotional development of all students.

## State Mandated TN Ready Tests

Mandated by the Tennessee State Board of Education are End of Course tests in Algebra I, Algebra II, Geometry, Biology, English 9, English 10, and U.S. History. The students' scores become part of the permanent record and count as a percentage of their final semester grade in the respective class.

## EARLY POST-SECONDARY OPPORTUNITIES (EPSOs)

### Advanced Placement Program

The Advanced Placement Program consists of college-level courses and AP College Board exams that provide high school students the opportunity to receive college credit. AP courses are introductory or second year college courses and are taught as a college class. They are much more rigorous than an honors class. Students who enroll in a College Board Advanced Placement course are required to take the College Board AP examination in May. The College Board fee for the AP Exam is approximately \$100.00 and is **non-refundable**--reduced fees may be available for students who qualify. Students must meet prerequisites for this program. **In order to receive the additional AP points and GPA weighting, students must take the AP exam.**

### College Level Examination Program

The College Level Examination Program or CLEP, is a program that enables students to earn college credit for introductory-level courses by achieving satisfactory scores on subject-specific tests. CLEP is administered by the College Board. Students who enroll in a CLEP course are required to take the appropriate CLEP exam at the end of the course. The College Board fee for the CLEP Exam is approximately \$95.00 and is **non-refundable**--reduced fees may be available for students who qualify. Students must meet each course's prerequisite to enroll. **In order to receive the additional CLEP points and GPA weighting, students must take the CLEP exam.**

### Dual Enrollment

The Dual Enrollment Program allows eligible students to work toward both a high school diploma and a college degree at the same time. For each course, students earn honors credit at the high school level and college credit hours at the postsecondary level. Most college credits will transfer to public colleges and universities throughout Tennessee and the United States.

Participating Dual Enrollment students must apply for admission to the University of Memphis or Tennessee College of Applied Technology, our Dual Enrollment partnering institutions. A qualified student has a grade point average of 3.0 or better in the subject area of enrollment and the required ACT scores. Government-funded financial aid packages are available to students through the Tennessee Dual Enrollment Grant. Furthermore, the college credit students earn throughout the program applies toward college graduation, drastically reducing the time required to complete a bachelor's degree.

For high school credit and transcripts, the Millington Municipal grade scale is used. For the college transcript, the college grade scale is applicable. Please contact your guidance counselor for additional information on dual enrollment.

### **State Dual Credit**

State Dual Credit courses are academically challenging high school courses, created by Tennessee secondary and postsecondary educators, which incorporate college-level learning objectives and have an aligned challenge exam. There are no fees associated with state dual credit courses. **Students enrolled in state dual credit courses must take the culminating challenge exam in the spring in order to receive the additional points and GPA weighting.** Students who meet the cut score on the challenge exam will receive college credit that can be applied at public postsecondary institutions in Tennessee.

### **Career Technical Education (CTE) Industry Certification**

Students in many of our CTE courses have the opportunity to gain industry certifications while enrolled in high school, which equips students with a market-ready skill upon graduation. Colleges and universities also value industry certifications, as this designation indicates a student has successfully taken and passed a rigorous exam in a specific field, demonstrating promise for college and career success.

### Grade Classification

High school students in Millington Municipal Schools are classified as follows:

- |  |                        |
|--|------------------------|
| <input type="checkbox"/> Less than <b>five (5)</b> credits                         | 9 <sup>th</sup> Grade  |
| <input type="checkbox"/> Earned <b>five (5)</b> credits and passed English 9       | 10 <sup>th</sup> Grade |
| <input type="checkbox"/> Earned <b>eleven (11)</b> credits and passed English 10   | 11 <sup>th</sup> Grade |
| <input type="checkbox"/> Earned <b>sixteen (16)</b> credits* and passed English 11 | 12 <sup>th</sup> Grade |

*\* In accordance to the Tennessee State Department of Education requirements, students classified as 12th graders must be enrolled in a full schedule of credit-bearing courses their senior year.*

### Graduation Requirements *Per the Tennessee Diploma Project*

Course	Credits
English .....	4.00
Mathematics ( <i>including Alg. I &amp; II, Geometry, and 4<sup>th</sup> higher level math</i> ) .....	4.00
<i>Students must be enrolled in a math course <u>each year</u> of high school.</i>	
Science ( <i>including Biology, Chemistry or Physics, and a 3<sup>rd</sup> lab course</i> ) .....	3.00
Social Studies ( <i>World Hist. &amp; Geography, U.S. Hist. &amp; Geography, Economics, &amp; U.S. Govt.</i> ) .....	3.00
Wellness & *Physical Education .....	1.50
Personal Finance .....	0.50
Fine Arts .....	1.00
World Language ( <i>two years of same language</i> ) .....	2.00
Elective Focus .....	3.00
Computer Science <sup>^</sup> .....	1.00
<b>Total</b> .....	<b>22.0</b>

#### \* Alternative Credit for Physical Education *Pass/Fail Grade only, no numerical grade*

High school students may earn one-half (0.5) credit through participation in approved extracurricular activities, according to the following Millington Municipal Schools requirements:

- To ensure that the minimum 80 hours of physical activity are included, the activity must be approved by the principal.
- Appropriate activities may include, but are not limited to, all Tennessee Secondary School Athletic Association (TSSAA) sanctioned sports, as well as cheerleading and marching band. The principal shall provide the superintendent with a list of all approved activities annually.
- The student must submit a *Request for Alternative Credit for Physical Education* signed by the faculty coach, sponsor, or teacher verifying participation and completion of the activity.
- The student must successfully complete the entire activity or season with an attendance rate of at least 90%.

- The grade for alternative credit for physical education will be recorded as “pass” on the student’s transcript and will NOT be used in calculating the student’s GPA.

### **^Computer Science**

- Students may fulfill this requirement by substituting computer science for the student’s fourth credit of mathematics, third credit of science, or an elective focus credit. Students may only use computer science as a substitution to fulfill one (1) credit in mathematics, or one (1) credit in science, or one (1) or more elective focus credits required for a traditional high school diploma.

## **PROGRAMS OF STUDY FOR THE ELECTIVE FOCUS**

### **Advanced Academics**

Students may choose three advanced academic courses to include those designated as Advanced Placement, CLEP, Dual Credit and/or Dual Enrollment. These courses may overlap with core requirements.

### **Career & Technical**

Students may earn three credits in one of the following CTE programs of study: Advanced STEM Applications, Coding, Networking Systems, Cybersecurity, Culinary Arts, Therapeutic Services, Cosmetology, Criminal Justice and Correction Services, Marketing Management, Supply Chain Management, Automotive Collision Repair, Welding, and Residential and Commercial Construction.

### **Fine Arts**

Fine Arts credits may be earned in Visual Arts, Vocal Music, Instrumental Music, and Theater Arts. For this focus area, a student must earn three credits in addition to the one credit required to meet state graduation requirements.

### **Intervention\***

Select students who qualify may earn three elective credits in Tier III math and/or English courses.

### **Liberal Arts/Humanities**

Students may select three credits of study in English, Social Studies, or World Language in the department’s course offerings in addition to the state mandated requirements to meet graduation.

### **Math & Science**

Students may select three additional math and/or science courses in addition to the requirements required to meet graduation requirements.

### **ROTC**

Students may choose ROTC as an elective focus area OR as substitution for core requirements.

\*For those who meet established guidelines.

## Course Selection for Spring Registration

Grade level counselors meet with students to determine course selections for the following school year. During the spring registration process, students take home their *Course Request Sheets* for the parents to sign. All registration forms, including recommendation forms and applications for select courses, must be returned. If not, students lose priority for scheduling in the desired courses. Once classes reach their maximum enrollment, other courses are substituted where class seats are available.

Freshmen must enroll in fourteen semester classes. Students in grades 10-12 must take twelve semester classes and may take fourteen if space is available in the elective courses.

**NOTE:** Because of limited available seats in foreign language classes, ninth and tenth graders cannot be guaranteed enrollment in a first-year foreign language class unless they have acute language acquisition skills as demonstrated by standardized test scores.

## Course Drop/Add Policy

Because of constraints with the semester schedule, **students will not be permitted to drop a required or elective class and add another** during the same semester. After the first day of classes, students will remain in all selected courses. During the first week of school, students may be permitted to drop a nonrequired elective and enroll in a study hall on a space-available basis.

## Graduating With State Honors

If students score at or above all of the subject area readiness benchmarks on the ACT or the equivalent score on the SAT, they will graduate with honors.

## Graduating With State Distinction

Students will graduate with distinction if they earn an overall B average and complete at least one of the following:

- Earn a nationally recognized industry certification
- Participate in at least one of the Governor's Schools
- Participate in one of the state's All State musical organizations
- Be selected as a National Merit finalist or semi-finalist
- Attain a 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 postsecondary credit (*via Advanced Placement Exams of 3 or above, passing CLEP score and/or Dual Enrollment*)

## District Honors Diploma

Students will graduate with District Honors, if they complete at least 12 Honors units. Students must take at least 3 CLEP/Honors/AP/DE units each year of high school. AP full year courses = 1.5 Honors units  
Honors course / Dual Enrollment course / semester AP course = 1 Honor unit

## Graduating With District Distinction

Students shall be recognized as graduating with district distinction if they have met the graduation requirements, have obtained an overall grade point average of at least a 3.0 or higher on a 4.0 scale, and have earned an industry certification in his or her career interest category or a regionally recognized industry certification.

### Tri-Star Scholar

A student who earns a composite score of nineteen (19) or higher on the ACT, or an equivalent score on the SAT, and earns a capstone industry certification as promoted by the Department of Education, shall be recognized as a Tennessee Tri-Star Scholar upon graduation from high school.

### COURSE SEQUENCE

Students must take a math course each year of high school even if an Algebra I credit was earned in middle school.

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
Algebra I	Geometry	Algebra II	Mathematical Reasoning SDC Precalculus SDC Statistics
Algebra I Honors	Geometry Honors	Algebra II Honors	SDC Precalculus SDC Statistics College Algebra Dual Enrollment Probability and Statistics Dual Enrollment Elementary Calculus and Trigonometry Dual Enrollment.
Geometry Geometry Honors (if Algebra I was taken in 8 <sup>th</sup> grade)	Algebra II Algebra II Honors	SDC Precalculus SDC Statistics College Algebra Dual Enrollment Probability and Statistics Dual Enrollment	College Algebra Dual Enrollment Probability and Statistics Dual Enrollment Elementary Calculus and Trigonometry Dual Enrollment.



## SUGGESTED SCIENCE COURSE SEQUENCE

Three science credits earned in high school are required for graduation.

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
Environmental Science	Biology Biology Honors	Chemistry Chemistry Honors (concurrent with Algebra II)	Anatomy & Physiology Physics Honors Biology Honors CLEP Biology
Biology Biology Honors (concurrent with Geometry)	Chemistry Chemistry Honors (concurrent with Algebra II)	Anatomy & Physiology Environmental Science Physics Honors CLEP Biology	Anatomy & Physiology Environmental Science Biology Physics Honors CLEP Biology

# COURSE DESCRIPTIONS



## College Readiness

### ACT PREP

**Credits:** 0.50

**Number of Semesters:** 1

**Grade Level:** 11

**Co-requisite:** TN Student Success

ACT Prep is designed to assist students in understanding what the ACT is, why it is important for their postsecondary readiness, and how to interpret their progress/results; understanding how academic skills connect to career pathways and postsecondary opportunities; preparing for the ACT exam through instruction, practice, and familiarity with the structure and format of the ACT exam; and identifying and using best practices for maximizing one's score.

### TENNESSEE STUDENT SUCCESS

**Credits:** 0.50

**Number of Semesters:** 1

**Grade Level:** 11

**Co-requisite:** ACT Prep

This course is designed to equip high school students with the skills and information needed to enroll and succeed in higher education. The course is aligned with Tennessee Department of Education standards and has been broken up into four topical modules: College 101, Getting In, Gearing Up for College, and College Skills and Success.

# English

## ENGLISH 9 HONORS

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9

**Prerequisite:** A minimum “B” average in 8<sup>th</sup> grade enriched English or an “A” average in standard English; teacher recommendation

English 9 Honors is designed to help students become higher-level critical readers. This course prepares students for the demands of the more rigorous Honors and AP English Program. Students are expected to read texts that are sophisticated and rigorous with emphasis on critical thinking skills. Students are required to write a research paper. This course has a state mandated End of Course exam.

## ENGLISH 9

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9

**Prerequisite:** None

English 9 integrates the state standards of reading, writing, viewing and representing, and speaking and listening. Students work to comprehend a wide variety of texts, including traditional works of literature, practical and persuasive forms of communication, along with the appropriate use of technology. This course emphasizes critical thinking skills and grammar. Students are required to write a research paper. This course has a state mandated End of Course exam.

## ENGLISH 10 HONORS

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 10

**Prerequisite:** A minimum “B” average in Honors English 9 or an “A” average in standard English 9; recommendation from current English teacher

English 10 Honors is designed for students who have mastered writing and grammar skills at grade level or above and who are also motivated to expand their knowledge through the study of major literary works. Emphasis is placed on the development of vocabulary. Interpretation of world literature and literary genres along with expansion of writing skills through essays, creative writing, and research writing are required. Summer reading assignments and outside reading are mandatory elements of this course. This course has a state mandated End of Course exam.

## ENGLISH 10

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 10

**Prerequisite:** English 9

English 10 includes a survey of literature from around the world, a continuation of grammar and composition skills, as well as a focus on the research skills and techniques needed to write a successful research paper. The literature component includes the study of short stories, nonfiction, poetry, legends, myths, drama, and novels. English 10 students demonstrate their knowledge through class presentations and essays, as well as through the standard classroom experiences of tests, class work, and homework. This course has a state mandated End of Course exam.

## ENGLISH 11 ADVANCED PLACEMENT

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 11

**Prerequisite:** A minimum “B” average in Honors English 10 or an “A” average in standard English; recommendation from current English teacher

Advanced Placement English 11 is a college-level course designed to develop students’ abilities to become skilled readers of prose in a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. In reading and writing, students become aware of the interactions among a writer’s purpose, audience expectations, and subjects, as well as the way generic conventions and the resources of language contribute to effectiveness in writing. An AP testing fee is required. All students must participate in the College Board AP testing program.

### **ENGLISH 11 HONORS**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 11

**Prerequisite:** A minimum “B” average in Honors English 10 or an “A” average in standard English; recommendation from current English teacher

English 11 Honors is designed for students who have mastered grade level writing and grammar skills. This course focuses on composition, vocabulary building, critical interpretation of American literature, and research writing. College bound students with motivation to expand their knowledge through added outside reading and a challenging work load are recommended.

### **ENGLISH 11**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 11

**Prerequisite:** English 10

English 11 is a study of American literature with an emphasis on persuasive writing skills. Students will continue to practice grammar and vocabulary specifically aimed at college entrance exams. The curriculum is designed to raise students’ abilities in critical thinking skills.

### **ENGLISH 12 ADVANCED PLACEMENT**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 12

**Prerequisite:** A minimum “B” average in Honors English 11 or AP English 11 or an “A” average in standard English; recommendation from current English teacher

Advanced Placement English 12 is a college-level course for students who have advanced skills in grammar, spelling, writing, and critical reasoning. Students read, analyze, and respond in writing to major works of world literature with emphasis on the writer’s stylistic maturity. Students revise and rewrite literary essays to improve style, organization, diction, and clarity. An AP testing fee is required. All students must participate in the College Board AP testing program.

### **ENGLISH 12 DUAL ENROLLMENT**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 12

**Prerequisite:** A minimum ACT composite score of 19, ACT English score of 18, a minimum “B” average in Honors English 11 or AP English 11; recommendation from current 11<sup>th</sup> grade Honors or AP English teacher

#### **Semesters 1 & 2 – 6 hours college credit**

English 12 Dual Enrollment combines English 12 and college English 1010 and 1020 from the University of Memphis. Students are introduced to college-level reading and writing with an emphasis on inquiry, critical analysis, argumentation, research, and documentation, as well as content, organization, and style. The course also includes practice in expository writing with emphasis on levels of usage and sentence structure for different purposes and audiences.

### **ENGLISH 12**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 12

**Prerequisite:** English 11

English 12 continues the focus on reading and critical thinking skills developed in previous academic levels. The course offers a thorough treatment of classic novels from literature and emphasizes class discussion, analysis, and interpretation. Skills in grammar and usage as well as vocabulary in context are integrated primarily through the study of British Literature. Emphasis is also placed on writing that develops analytical skills. A research paper is required in this course.

### **ENGLISH AS A SECOND LANGUAGE I, II, III, IV**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-12

**Prerequisite:** Recommendation of ESL teacher

English As A Second Language is designed to assist English Language Learners with the development of daily and academic vocabulary, reading, writing, and communication skills, as well as the development of skills in the areas of grammar, literature, and spelling.

## **ENGLISH ELECTIVES**

### **CLASSICAL MYTHOLOGY**

**Credits:** 0.50

**Number of Semesters:** 1

**Grade Level:** 9-12

**Prerequisite:** None

Classical Mythology is a rigorous introductory study of the primary characters and most important stories of classical Greek and Roman mythology, including the most famous classical myth, the Trojan War. *The Iliad* and *The Odyssey* are also studied, along with an examination of Joseph Campbell's *The Hero of a Thousand Faces* for a comparison of mythical heroes with modern day heroes.

### **ETYMOLOGY HONORS**

**Credits:** 0.50

**Number of Semesters:** 1

**Grade Level:** 9-12

**Prerequisite:** A minimum "B" average in Honors English 9, 10, or 11 or an "A" average in English 8

Etymology Honors is designed to teach students to recognize Latin and Greek word elements in the English language. The purpose of this study is to increase vocabulary and enable students to analyze familiar and unfamiliar words. The history of the development of the English language and its cognates allow students to become familiar with patterns of semantic change and world history from a unique perspective.

### **CREATIVE WRITING**

**Credits:** 0.50

**Number of Semesters:** 1

**Grade Level:** 9-12

**Prerequisite:** None

Creative Writing is a personal, aesthetic, experiential writing course in which students discover their own artistic voice and progressively model their own writing after published works in several genres including poetry, personal narrative, creative nonfiction, short fiction, and short plays. The course is conducted as a workshop which provides a forum for discussion and critique of published works as well as students' original works.

### **JOURNALISM (YEARBOOK)**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 10-12

**Prerequisite:** Application

Journalism is the course in which students produce the school's yearbook. Students develop a theme, sell ads, design layouts, proofread, and distribute yearbooks. Students must apply in the spring semester for the following school year.

### **SPEECH AND COMMUNICATIONS STATE DUAL CREDIT**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 11-12

**Prerequisite:** A minimum "B" average in 10<sup>th</sup> grade English course

Speech and Communications State Dual Credit studies the fundamentals of speech and communications. Students will study group communications, intercultural communication, interpersonal communications, the nature and value of speaking, nonverbal communication, persuasion, public speaking and the value of listening. Students will be required to take the challenge exam in the spring.

### **JOURNALISM I (NEWSPAPER)**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 10-12

**Prerequisite:** Application Required

Journalism I (Newspaper) is the course in which students produce the school's monthly newspaper. Students learn the basics of news writing and gain an understanding of newsworthiness. Students develop story ideas, design layouts, proofread, and publish the newspaper. Students will also gain skills in sports writing, humor writing, and photojournalism. Students complete an application in the spring semester and are selected based on teacher recommendations, attendance, and commitment to the project.

## **Fine Arts**

### **INSTRUMENTAL MUSIC**

#### **GENERAL MUSIC**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-12

**Prerequisite:** None

General Music focuses on discovering music as a means of communication in and between cultures, and how we use music to tell the story of our lives. The course provides experiences for all students in the area of creating understanding of and listening to music. Areas of focus are producing and experiencing music, musical styles, and music in contemporary life. Students will develop skills in performing, organizing, and describing music.

#### **PERCUSSION**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-12

**Prerequisite:** Middle School Band and Audition

Percussion is a performance class for all percussionists. Time is spent on ensemble and individual technique. Students are expected to be able to play and read percussion music. Participation in marching band is required. Attendance at all after school rehearsals, performances, and summer band camp is mandatory. There is a course fee of \$250.

#### **SYMPHONIC BAND**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-12

**Prerequisite:** Middle School Band and Audition

Symphonic Band is the advanced band performance class. Emphasis is placed on musicality and performance. Students are expected to be able to play advanced music. Participation in marching band is required. Attendance at all after school rehearsals, performances, and summer band camp is mandatory. There is a course fee of \$250.

#### **JAZZ BAND**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-12

**Prerequisite:** Middle School Band or Equivalent Experience

This performance-based course provides students with a variety of jazz ensemble experiences. Music is studied and performed from an intermediate to advanced level of jazz repertoire. Jazz basics and techniques are performed. This ensemble performs at least once per semester. Some extracurricular commitment is required before performances. Traditional jazz instruments are used in this course (i.e. saxophones, trombones, trumpets, piano, bass, drums & mallet percussion). There may be instrument exceptions at the discretion of the director.

### **PIANO I**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-12

**Prerequisite:** None

This course is designed for students who wish to develop basic piano playing skills or expand on their existing skills. During Piano 1, instruction will be given both on and off the piano keyboards. Students will be working individually and in small groups to master the techniques of playing melodies, chords, short songs, and accompaniment. The students will also work in groups on musical notation and theory. The students' final exam will be to play one mini-classical piece and one pop song with chordal accompaniment.

### **PIANO II**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 10-12

**Prerequisite:** Piano I or Theory/Performance Exam

Piano II class is a continuation of Piano I. Students must successfully complete Piano I, or pass a comprehensive theory and performance exam to enroll in this class. During this course students will be exposed to more advanced music theory and piano techniques. The students will be able to play major scales and basic chord progressions in every key. The students will also be required to complete a recital at the end of each semester.

## **THEATRE AND COMMUNICATIONS**

### **THEATRE ARTS I**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-12

**Prerequisite:** None

Introduction to Theatre Arts introduces the student to the history and conventions of theatre. Topics covered include the history of Western Theatre from the Golden Age of Greece to modern day, production roles and responsibilities, set design, lighting, sound effects, stage make-up, directing, scriptwriting, acting and improvisation. Reading, analyzing, and performing plays is also an integral part of this course of study with an emphasis on participation and performance.

### **THEATRE ARTS II**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 10-12

**Prerequisite:** Theatre I

This Course is designed for the performance-oriented student. This course examines practical and theoretical approaches to performance, including improvisational acting, acting styles, and acting scenes. Students are required to critique live theatrical performances in the Memphis/Millington area and perform in main-stage theatrical performances.

### **THEATRE ARTS III**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 11-12

**Prerequisite:** Theatre I, II

This course provides a workshop setting for students who desire to learn advanced techniques and gain practical experience in all phases of theatre activities. Students must audition, interview, and be recommended by the theatre director. Students must be detail-oriented and able to work outside the direct supervision of the instructor. Some after-school hours may be required.



## **THEATRE ARTS IV**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 12

**Prerequisite:** Theatre I, II, III

This course is designed for those who want to pursue the art of theatre seriously. It will be used to prepare students for college scholarship auditions and various competitions in the Memphis Area. Students are strongly encouraged to participate in Millington High School productions. Students must be able to work without direct supervision, be detail oriented, and be able to work well with others.

## **VISUAL ARTS**

### **ART I**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-12

**Prerequisite:** None

Art I is a basic art-studio orientation course that utilizes the elements and principles of design and artistic awareness. Students become acquainted with a number of different media and are encouraged to experience, invent, and transfer learning from one medium to another. The specific program content includes drawing, extensive color study, perspective, structure and composition, art vocabulary, art history, painting, design and three-dimensional experiences. Course expectations include in-class projects, quizzes, tests, a final exam, and regular class attendance. Supplies and a \$20.00 fee are required.

### **ART II**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 10-12

**Prerequisite:** Art I

Art II provides a wide variety of drawing and painting experiences. Drawing experiences include contour (blind and controlled), gesture, outline, modeled, ink and watercolor wash, and an art's eye view. Tactile experiences are emphasized in the study of painting, including glazing, collage techniques, watercolor, and acrylics, as well as woodcuts and linoleum, and sculpture involving multimedia. Creative experiences are offered in plastic, wire, clay, and mixed media. Competitions, art history investigations and sketchbooks are an integral part of Art II. Supplies and a \$30.00 fee are required.

### **ART III**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 11-12

**Prerequisite:** Art I, Art II, and teacher recommendation

Art III allows students to explore their own personal artistic style and learn new mediums, two-dimensional and three-dimensional. Projects for the course emphasize problem solving, synthesizing all the skills learned in Art I & II, and effective visual communication, also included are studies in self-portraiture, advanced painting mediums and techniques, drawing to a theme, and figure drawing. This class incorporates field trips and guest speakers. Competitions, art history investigations and sketchbooks are an integral part of Art III. Supplies and a \$40.00 fee are required.

### **ART DUAL ENROLLMENT**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 11-12

**Prerequisite:** A minimum ACT composite score will be set by the University. Minimum "B" average in Art III and a teacher recommendation.

This course would be Art 1035 through the University of Memphis. The overall purpose of this course is to provide the student with a basic understanding of the visual arts. The first half of the course deals with the nature of art, the evaluation of art, the processes, and materials of art. We will examine the formal elements of design and look at a wide variety of both 2D and 3D art works to learn about the processes and tools involved in its creation. The second half of the semester is spent in a chronological study of art from around the world in its cultural setting from the prehistoric to the contemporary.

## **PHOTOGRAPHY II**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 10-12

**Prerequisite:** Art I and selected through application process

Photography courses provide students with an understanding of photographic media, techniques, and processes. These courses focus on development of photographic compositions through manipulation of the fundamental processes of artistic expression. Students may learn to make meaningful visual statements with an emphasis on personal creative expression to communicate ideas, feelings, or values. Photography courses may also include the history of photography, historic movements, image manipulation, critical analysis, and some creative special effects.

## **PHOTOGRAPHY III**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 11-12

**Prerequisite:** Photography II and selected through application process

Photography courses provide students with an understanding of photographic media, techniques, and processes. These courses focus on development of photographic compositions through manipulation of the fundamental processes of artistic expression. Students may learn to make meaningful visual statements with an emphasis on personal creative expression to communicate ideas, feelings, or values. Photography courses may also include the history of photography, historic movements, image manipulation, critical analysis, and some creative special effects.

# **VOCAL MUSIC**

## **CHAMBER CHOIR/CHORALE**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 10 -12

**Prerequisite:** Audition

Chorale is the most advanced vocal ensemble offering. Chorale produces and performs a minimum of four (4) concerts annually. In addition to school concerts, the group makes guest appearances for many community events and fundraisers. Concert uniform must be purchased.

## **MEN'S CHOIR/MALE CHORUS**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9 -12

**Prerequisite:** Audition

Male Chorus is an auditioned ensemble for students who wish to get a better foundation at the art of vocal music. This vocal ensemble performs at least three (3) concerts annually. Members of this group will be required to attend scheduled rehearsals after school. In addition to the concert season, they also participate in choral festivals on a local and state level as the Male Chorus and as a part of the Concert Choir, as designated by the choir director. Concert uniform must be purchased.

## **JAZZ CHOIR/SPIRIT OF MCHS**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 11-12

**Prerequisite:** Audition and a minimum of one year in another choral ensemble

Jazz Choir is an advanced performance ensemble that focuses on complex and diverse music with an emphasis on Swing, Ballad, A Cappella, and Improvisation. Various styles and themes are presented through advanced competition level music. Music skills such as sight singing and reading music notation are required. Students work in various groupings (quartets, small groups, full group, etc.), attend multiple Jazz and Choral Festivals and perform at private concerts throughout the year. Participation after school in all performances is required. Concert uniform must be purchased.

## **WOMEN'S CHOIR/CANTABILE**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9 -12

**Prerequisite:** Audition

Cantabile is an auditioned ensemble for students who wish to get a better foundation in the art of vocal music. This vocal ensemble performs at least three (3) concerts annually. Members of this group will be required to attend scheduled rehearsals after school. In addition to the concert season, they also participate in choral festivals on a local and state level as the Cantabile and as a part of the Concert Choir, as designated by the choir director. Concert uniform must be purchased.

## World Languages

### SPANISH

#### SPANISH I HONORS

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 8-11

**Prerequisite:** Enrollment in English Honors; teacher recommendation, Native Speaker of Spanish

Spanish I Honors emphasizes the four skills (speaking, listening, writing, and reading) of the target language with a more intensive, critical approach. Students are required to purchase a Spanish dictionary. Supplementary materials must be purchased.

#### SPANISH I

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-11

**Prerequisite:** None

Spanish I is an introduction to grammar, vocabulary, culture, and pronunciation. Students learn the four skills of the language: reading, writing, speaking, and listening. A study of the cultures of Spanish speaking countries is included.

#### SPANISH II HONORS

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-12

**Prerequisite:** Minimum "B" average in Honors Spanish I; teacher recommendation, Native Speaker of Spanish

Spanish II Honors emphasizes the four skills (speaking, listening, writing, and reading) of the target language with a more intensive, critical approach. Students are required to purchase a Spanish dictionary. Supplementary materials must be purchased.

#### SPANISH II

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-12

**Prerequisite:** Spanish I

Spanish II is a continuation of Spanish I grammar, vocabulary, and culture with an emphasis on speaking, listening, writing, and reading.

#### SPANISH III HONORS

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 10-12

**Prerequisite:** Minimum "B" average in Honors Spanish II; teacher recommendation

Spanish III Honors includes an advanced study of grammar and an introduction to Spanish literature. Communication in the target language is emphasized. This class is taught mostly in Spanish. Students are required to purchase a Spanish dictionary as well as supplementary materials.

#### SPANISH IV HONORS

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 11-12

**Prerequisite:** Minimum "B" average in Honors Spanish III; teacher recommendation

Spanish IV Honors is a continuation of Spanish III Honors with a more intensive study of communication skills. This class is taught mostly in Spanish. Students must be able to work independently in the target language. Supplementary materials must be purchased.

**SPANISH DUAL ENROLLMENT**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 12

**Prerequisite:** A minimum ACT composite score will be set by the University. Minimum “B” average in Spanish III and a teacher recommendation.

**Semesters 1 & 2 – 6 hours college credit**

Spanish Dual Enrollment combines Spanish and college Spanish 1010 and 1020 from the University of Memphis. This class is designed to develop skills for speaking, listening, reading, and writing Spanish at the Elementary Level. Special emphasis will be given to pronunciation, vocabulary, grammar, and cultural awareness.

# Mathematics

## ALGEBRA I HONORS

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9

**Prerequisite:** A minimum “B” average in 8<sup>th</sup> grade enriched math or a minimum “A” average in standard math; teacher recommendation

This course is designed for students with an excellent enriched, or accelerated 8th grade math background who want a more challenging approach to Algebra I. More emphasis will be placed on understanding and applying the different sets of real numbers; on developing the concept of functions; on establishing connections between graphs, equations, and numerical patterns; and on solving a greater variety of applications. For this course, it is strongly recommended that students be skilled in working with the basic mathematical operations using fractions, decimals, and whole numbers WITHOUT the use of a calculator. This course has a state mandated End of Course exam.

## ALGEBRA I

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9

**Prerequisite:** None

Algebra I is the study of functions and the ability to work flexibly with verbal, symbolic, graphic, and tabular representations. Topics include solving linear and quadratic equations, slope as rate of change, proportionality, representing and solving inequalities, systems of equations, and irrational numbers. Statistical and geometric applications are investigated. Concept building through connections, reasoning, and communication is emphasized, especially student justification of solutions and methods. This course has a state mandated End of Course exam.

## GEOMETRY HONORS

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-10

**Prerequisite:** A minimum “B” average in Algebra I Honors; teacher recommendation

Geometry Honors places emphasis on investigating solid figures such as the triangle, circle, and polygons, investigating trigonometric relationships, bridging the gap between algebraic and geometric concepts, justifying conclusions, making logical arguments, and proving postulates and theorems. Emphasis is placed on how these concepts are used in the real-world. Students must have a scientific calculator. This course has a state mandated End of Course exam.

## GEOMETRY

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-10

**Prerequisite:** Algebra I

Geometry incorporates the basic structure of plane and solid geometry, as well as critical and creative reasoning skills. This course provides the application of mathematical models to real-world situations and to mathematical ideas and processes both orally and in writing to become proficient in problem solving. The content includes the basics of numerical reasoning, the use of algebraic methods in solving problems in geometry, the properties of geometric figures and special applications, the area and volume formulas, probability and statistics, and transformations. This course has a state mandated End of Course exam.

## ALGEBRA II HONORS

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 10-11

**Prerequisite:** A minimum “B” average in Honors Geometry; teacher recommendation

Algebra II Honors incorporates a study of number systems, equations, inequalities, relations and functions, matrices, quadratic relations, systems of equations and inequalities, exponents and logarithms, probability and statistics, rational expressions, and trigonometric functions. Graphing calculators are utilized regularly. Students are advised to purchase their own to augment the limited classroom sets of TI-83+ graphing calculators. This course has a state mandated End of Course exam.

## **ALGEBRA II**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 10-11

**Prerequisite:** Geometry and Algebra I

Algebra II continues topics from Algebra I with more detail and depth. The content also includes a study of real and imaginary numbers, equations, inequalities, relations and functions, matrices, quadratic functions, conic sections, systems of equations and inequalities, exponents and logarithms, probability and statistics, and rational expressions. Concepts from geometry are extended, especially the ability to write proofs, the treatment of conic sections through coordinate geometry, regions described by systems of inequalities, and probability modeled by areas of figures. This course has a state mandated End of Course exam.

## **STATISTICS STATE DUAL CREDIT**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 11-12

**Prerequisite:** A minimum “B” average in Algebra II, Algebra I, and Geometry

Probability and Statistics State Dual Credit entails the underlying ideas of statistical and quantitative thinking; randomization in sample survey methods and design of experiments; double blind experiments and observational studies; descriptive and summary statistics; measurement errors; probability models; normal approximation; tests of significance and p-values, basic concepts of correlation and regression analyses. Students are required to take the challenge exam during the spring semester.

## **PRECALCULUS STATE DUAL CREDIT**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 11-12

**Prerequisite:** A minimum “A” average in Honors Algebra II and Algebra I

Precalculus State Dual Credit is recommended for college-bound students who plan to pursue careers in mathematics, science, or engineering. This course both encompasses and extends topics and concepts of Algebra II. It includes functions, conic sections, complex numbers, vectors, and a full course in trigonometry. A minimum of one hour of homework per night is required. Students are required to take the challenge exam during the spring semester.

## **MATH DUAL ENROLLMENT**

**Credits:** 0.5

**Number of Semesters:** 1

**Grade Level:** 11-12

**Prerequisite:** A minimum ACT composite score of 19, ACT math score of 18, and recommendation from current honors math teacher

Offered through the University of Memphis; The student is responsible for fees due to the university.

### **Semester 1: Probability and Statistics/Non-Calculus (3 hours college credit)**

Underlying ideas of statistical and quantitative thinking; randomization in sample survey methods and design of experiments; double blind experiments and observational studies; descriptive and summary statistics; measurement errors; probability models; normal approximation; tests of significance and p-values, basic concepts of correlation and regression analyses.

### **Semester 2: College Algebra (3 hours college credit)**

Analysis of functions (linear, quadratic, polynomial, root, rational, exponential, logarithmic) using graphing calculators; partial fractions; conic sections; theory of equations; inequalities; applications.

### **Semester 1: Elementary Calculus (3 hours college credit)**

Calculus of one real variable related to rational, exponential, and logarithmic functions. Topics include the limits of functions, derivatives of algebraic, exponential, and logarithmic functions and their inverses and the definite integral and its economic applications: Consumer Surplus, Producer Surplus; and applications of integrating growth and decay models. Also included are applications of the derivative including maximum and minimum problems in business and economics.

### **Semester 2: College Trigonometry (3 hours college credit)**

Circular functions; inverse circular functions, graphs of circular and inverse functions, identities, equations, angles, trigonometric functions, solution of triangles, elementary application of vectors; trigonometric form of complex numbers.

**MATHEMATICAL REASONING FOR DECISION MAKING**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 12

**Prerequisite:** Algebra I, II, and Geometry

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

# NJROTC

## NJROTC I, II, III, IV, & V

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 8-12

**Prerequisite NJROTC I:** None

**Prerequisite NJROTC II-III:** Successful completion of previous year.

**Prerequisite NJROTC IV:** Successful completion of NJROTC 3 and individual selection by the Senior Naval Science Instructor.

**Prerequisite NJROTC V:** Successful completion of NJROTC 4 and individual selection by the Senior Naval Science Instructor.

NJROTC (Naval Junior Reserve Officer Training Corps) is an elective course designed to promote patriotism, teamwork, create better informed and productive citizens, teach self-discipline and personal responsibility. Course content includes academic lessons such as citizenship, foundations of government, naval aviation and ships, approaches to leadership, meteorology, astronomy, naval and military operations and basic seamanship, differing world cultures, and financial management and responsibility. NJROTC also includes instruction and practical application of uniform inspections, military drill, and physical training. NJROTC may be taken from one to four years; students who complete two years of NJROTC receive the required Wellness credit for graduation. Students who successfully complete three years of NJROTC will also receive the required graduation requirements for PE and the ½ year credit for Personal Finance. NJROTC 4/5 is leadership based and is designed for those students that have excelled in NJROTC 1, 2 & 3.



# Science

## ENVIRONMENTAL SCIENCE

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-12

**Prerequisite:** None

Environmental Science is a year-long course designed to show thematic connections between a variety of science disciplines including biology, chemistry, and physics. It gives students a coherent and realistic picture of the applications of a variety of scientific concepts as they manifest in our environment.

## BIOLOGY I HONORS

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-10

**Prerequisite:** A minimum “A” average in Honors Physical Science or 8<sup>th</sup> grade Science; teacher recommendation

Biology Honors is designed to accentuate the thought processes and enhance the scientific competencies of each student and utilize and magnify cognitive abilities by laboratory experiences that emphasize problem solving, information gathering, decision-making, and an in-depth study of biological concepts. This course has a state mandated End of Course exam.

## BIOLOGY

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 10

**Prerequisite:** Physical Science or Environmental Science

Biology is devoted to the study of living things and their processes. Throughout the year this course provides an opportunity for students to develop scientific processing skills, laboratory techniques, and an understanding of the fundamental principles of living organisms. Students will explore biological science as a process, cell structure and function, genetics and heredity, evolution and classification, diversity of living organisms and their ecological roles, and an introduction to animal structure and function. This course has a state mandated End of Course exam.

## CHEMISTRY HONORS

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 10-11

**Prerequisite:** A minimum “B” average in Honors Biology; teacher recommendation

Chemistry Honors is designed for students who plan to major in science, mathematics, medicine, or engineering in college. The following basic principles are developed: the nature of matter, atomic theory, the mole concept, organic chemistry and physical inorganic chemical concepts. These concepts and principles are developed through laboratory exercises, class discussions, lectures, demonstrations, and science projects.

## CHEMISTRY

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 10-12

**Prerequisite:** Algebra I and Biology

Chemistry involves the study of elements, compounds, formulas, symbols, equations, solutions, gas laws, atomic theory, and organic chemistry. Laboratory experiences are an important part of this course. Emphasis is placed on reasoning and application of math concepts.

## PHYSICS HONORS

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 11-12

**Prerequisite:** Completion of or co-enrollment in Honors Algebra II; minimum “B” average in Honors Chemistry; teacher recommendation

Physics Honors is designed for students who plan to major in science, mathematics, engineering, or medicine in college or enter the military. Physics is the study of matter and energy. Topics of study include classical mechanics, motion, momentum, energy forms of sound, heat, light, electricity, wave theory, and atomic theory. Investigations in

laboratory and classroom demonstrations are included in this course. An average of one hour of homework per night is required.

**CLEP BIOLOGY**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 11-12

**Prerequisite:** A minimum “A” average in both Biology I & Chemistry I; teacher recommendation

CLEP Biology is designed to provide an overview of cellular structure and function, genes and biodiversity. NOTE: credit will not apply toward a major or minor in the sciences, nor will it satisfy any part of science requirements for preprofessional curricula. A minimum of one hour of homework is required each night. All students must participate in the College Board CLEP testing program. A passing exam score is required for college credit. A CLEP testing fee is required.

## Social Studies

### PERSONAL FINANCE

**Credits:** 0.50

**Number of Semesters:** 1

**Grade Level:** 10-12

**Prerequisite:** None

Personal Finance is a course designed to help students understand the impact of individual choices on occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing. Students will design personal and household budgets; simulate use of checking and saving accounts; demonstrate knowledge of finance, debt, and credit management; and evaluate and understand insurance and taxes. This course will provide a foundational understanding for making informed personal financial decisions. The co-curricular student organization will provide students with opportunities for leadership development, personal growth, and school/community involvement.

### WORLD HISTORY AND GEOGRAPHY

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-12

**Prerequisite:** None

World History involves the study of past cultures and societies in light of contemporary perspectives on diversity, human interaction, and global dynamics. The course follows the story of humanity from the earliest records, including the developments of civilization and urbanization and the establishment and decline of the classical empires. The second half of the course addresses topics related to the rise of Western civilization and discusses its decline in recent decades.

### WORLD HISTORY AND GEOGRAPHY HONORS

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-10

**Prerequisite:** Teacher recommendation & enrollment in English Honors

World History Honors follows the standard World History and Geography curriculum but places a greater emphasis on reading and critical thinking skills, research, and outside independent study.

### HUMAN GEOGRAPHY ADVANCED PLACEMENT

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 10-12

**Prerequisite:** A minimum "A" average in current Honors English course; teacher recommendation

Advanced Placement Human Geography introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. An AP testing fee is required. All students must participate in the College Board AP testing program.

### UNITED STATES HISTORY ADVANCED PLACEMENT

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 11

**Prerequisite:** A minimum of "A" average in World History and Geography Honors; teacher recommendation

Advanced Placement U.S. History is designed to develop analytical skills and factual knowledge necessary to critically study American history. Material includes early exploration and colonization to present day and explores history through themes/topics. Summer reading assignments are required, as are research and literature assignments, and outside reading that includes novels and primary source (document) interpretation. An AP testing fee is required. All students must participate in the College Board AP testing program.

### **UNITED STATES HISTORY AND GEOGRAPHY**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 11

**Prerequisite:** None

Students will examine the causes and consequences of the Industrial Revolution and America's growing role in world diplomatic relations, including the Spanish-American War and World War I. Students will study the goals and accomplishments of the Progressive movement and the New Deal. Students will also learn about the various factors that led to America's entry into World War II, as well as its consequences for American life. Students will learn about the Cold War, Civil Rights Movement, Great Society, and the consequences of these topics into the late 20th Century. Students will continue to learn fundamental concepts in civics, economics, and geography within the context of United States history. Finally, students will focus on current human and physical geographic issues important in contemporary America and the global society. This course has a state mandated End of Course exam.

### **UNITED STATES HISTORY AND GEOGRAPHY DUAL ENROLLMENT**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 11

**Prerequisite:** 19 composite score on the ACT, 100 admissions index score, and teacher recommendation

This course will be through the University of Memphis. Dual Enrollment History provides students with a study of the history of the United States from the age of discovery to the present. Students utilize primary and secondary sources to interpret the past through reading, writing, and class discussions. Students understand and appreciate the complexity of the political, economic, and social development of the United States.

#### **HISTORY 2010 US to 1877**

United States from colonization through Reconstruction.

#### **HISTORY 2020 The US Since 1877**

United States from 1877 to present.

### **MACROECONOMICS ADVANCED PLACEMENT**

**Credits:** 0.50

**Number of Semesters:** 1

**Grade Level:** 12

**Prerequisite:** a minimum "A" average in U.S. History Honors or "B" in AP U.S. History; teacher recommendation

Advanced Placement Macroeconomics emphasizes a thorough understanding of the principles of economics that apply to complete economic systems. Particular emphasis is placed on the study of national income and price determination, as well as the application of both monetary and fiscal policies. In addition, students develop an understanding of economic performance measures, economic growth, and international economic transactions. This course fulfills the Economics requirement for graduation. A minimum of one hour of homework is required each night. An AP testing fee is required. All students must participate in the College Board AP testing program.

### **ECONOMICS**

**Credits:** 0.50

**Number of Semesters:** 1

**Grade Level:** 12

**Prerequisite:** None

Economics is a study of the principles of economics, such as the free enterprise system, the government's role in our economy, supply and demand, and banking and the Federal Reserve System. Students examine their role as a consumer, worker, and investor in order to improve decision-making skills related to consumer spending, career paths, financial planning for the future, and reactions to market fluctuations. This course is required for graduation.

### **UNITED STATES GOVERNMENT AND CIVICS**

**Credits:** 0.50

**Number of Semesters:** 1

**Grade Level:** 12

**Prerequisite:** None

United States Government is a survey of American Government. It includes a study of the foundations of American Government, federalism, the three branches of government, the election process, and the Constitution. This course is required for graduation.

### **AMERICAN GOVERNMENT DUAL ENROLLMENT**

**Credits:** 0.50

**Number of Semesters:** 1

**Grade Level:** 12

**Prerequisite:** Minimum grade of “B” in US History and teacher recommendation

Development, structure, and processes of American system of government, including framing principles of U.S. Constitution and Bill of Rights; structure and roles of President, Congress, and Supreme Court, and citizen participation in governing.

## **SOCIAL STUDIES ELECTIVES**

### **AFRICAN-AMERICAN HISTORY**

**Credits:** 0.50

**Number of Semesters:** 1

**Grade Level:** 10-12

**Prerequisite:** None

African-American History is designed to provide a historical perspective of African-Americans. Course content includes the Civil Rights Movement in the U.S., a study of Africans and African slavery, the Middle Passage and the crossing of the Atlantic Ocean, and various modes of slavery in the colonial Americas under the Spanish, the French, the Dutch, and the English. Students investigate the uniquely American side of slavery from 1776 through the American Civil War in 1861, as well as the experience of the Freedman, life as an African-American in the Jim Crow South, and the Harlem Renaissance.

### **PSYCHOLOGY STATE DUAL CREDIT**

**Credits:** 1.0

**Number of Semesters:** 2

**Grade Level:** 10-12

**Prerequisite:** Completion of English I

Psychology State Dual Credit is designed to provide an overview of the field of psychology and human behavior. The topics of philosophy, history, biology, learning, personality, abnormal behavior, treatment, applied memory, intelligence, motivation, consciousness, perception and sensory are included. Prerequisites: Reading and writing proficiency appropriate for college-level coursework. Students are required to take the challenge exam during the spring semester.

### **CONTEMPORARY ISSUES**

**Credits:** 0.5

**Number of Semesters:** 1

**Grade Level:** 10-12

**Prerequisite:** None

Students will use inquiry skills to examine the issues that impact the contemporary world. Students will analyze the historical, cultural, economic, and geographic factors that have elevated certain issues to levels of concern in the United States and around the globe. Students will engage in research and problem solving in order to better understand and assess significant current issues.

### **TENNESSEE HISTORY**

**Credits:** 0.5

**Number of Semesters:** 1

**Grade Level:** 10-12

**Prerequisite:** None

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

## Wellness and Physical Education

### LIFETIME WELLNESS

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9

**Prerequisite:** None

Lifetime Wellness is designed to instill a lifelong process of positive lifestyle management that seeks to integrate the emotional, social, intellectual and physical dimensions of self for a longer, more productive, and higher quality of life. The course objective is that students completing this study are better prepared to assume responsibilities for personal lifetime wellness. Lifetime Wellness is a graduation requirement and may be substituted by two years of NJROTC.

### LIFETIME SPORTS

**Credits:** 0.50

**Number of Semesters:** 1

**Grade Level:** 10-12

**Prerequisite:** Lifetime Wellness or two years of NJROTC

Lifetime Sports is an activity course designed to introduce students to various activities for a lifetime of fitness. This is an activity class that requires daily participation. Students must dress in appropriate work out clothing for all activities. Lifetime Sports offers a variety of activities that include individual sports, dual sports, team games, and fitness training.

### RECREATIONAL GAMES

**Credits:** 0.50

**Number of Semesters:** 1

**Grade Level:** 10-12

**Prerequisite:** Lifetime Wellness or two years of JROTC

Recreational Games is an activity course designed to introduce students to various activities for a lifetime of fitness. This is an activity class that requires daily participation. Students must dress in appropriate work out clothing for all activities. Recreational Games offers a variety of activities that include recreational activities, team sports, and fitness.

# Career and Technical Education (CTE)

## RESIDENTIAL & COMMERCIAL CONSTRUCTION

### FUNDAMENTALS OF CONSTRUCTION

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-10

**Prerequisite:** None

Fundamentals of Construction is a foundational course covering essential knowledge, skills, and concepts required for careers in construction. Upon completion of this course, proficient students will be able to describe various construction fields and outline the steps necessary to advance in specific construction careers. Students will be able to employ tools safely and interpret construction drawings to complete projects demonstrating proper measurement and application of mathematical concepts.

### RESIDENTIAL & COMMERCIAL CONSTRUCTION I

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 10-12

**Prerequisite:** Fundamentals of Construction

Residential & Commercial Construction I is the second course in the Residential & Commercial Construction program of study intended to prepare students for careers in construction by developing an understanding of the different phases of a construction project from start to finish. Upon completion of this course, proficient students will be able to demonstrate knowledge and skill in the earlier phases of building construction, including site layout, foundation systems, concrete, framing systems, and electrical systems. Students will be able to perform concrete work; frame walls, ceilings, and floors of a structure; and install proper wiring while safely employing tools and interpreting construction drawings to complete projects. Emphasis is placed on demonstrating proper measurement and application of mathematical concepts. Standards in this course also include principles of the construction industry and business and project management. Students will continue compiling artifacts for inclusion in their portfolios, which they will carry with them throughout the full sequence of courses in this program of study.

### RESIDENTIAL AND COMMERCIAL CONSTRUCTION I, II, III, and IV DUAL ENROLLMENT

**Credits:** 1.00

**Number of Semesters:** 1

**Grade Level:** 11-12

**Prerequisite:** Fundamentals of Construction and Residential & Commercial Construction I

These courses will be offered through Tennessee College of Applied Technology (TCAT) and the purpose is to train students for employment in the field of Residential and Commercial Construction. The mission of the Building Construction Technology is to provide theory and hands-on training that will qualify students for employment or advancement in building construction. Students erect framework including subflooring, sheathing, partitions, floor joists, studding and rafters. The curriculum also includes building preparation for trimming, installing molding, wood paneling, window sash, door frames, doors and hardware, as well as building stairs and laying floors.

# MARKETING AND ENTREPRENEURSHIP

## INTRODUCTION TO BUSINESS AND MARKETING

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-10

**Prerequisite:** None

Business and Marketing Principles is designed to provide students with a basic understanding of the business and economic environment in roles as a consumer, worker, and citizen. Course content includes money and banking, credit, budgeting, career development, communication, entrepreneurship, goal setting, and time management.

## MARKETING AND MANAGEMENT I: PRINCIPLES

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 10-11

**Prerequisite:** Introduction to Business and Marketing

Marketing and Management I: Principles focuses on the study of marketing concepts and their practical application. Students will examine risks and challenges marketers face to establish a competitive edge in the sale of products and services. Topics covered include fundamental marketing functions such as promotion, distribution and selling, as well as coverage of economics fundamentals, international marketing, and career development. Upon completion of this course, proficient students will understand the economic principles, the marketing mix, and product development and selling strategies. This course fulfills the Economics graduation requirement.

## MARKETING AND MANAGEMENT II: STATE DUAL CREDIT

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 11-12

**Prerequisite:** Completion of English I and II, Marketing and Management I

Marketing & Management II: State Dual Credit is a study of marketing concepts and principles used in management. Students will examine the challenges, responsibilities, and risks managers face in today's workplace. Subject matter includes finance, business ownership, risk management, marketing information systems, purchasing, promotion, and human resource skills. Students are required to take the challenge exam during the spring semester.

# SUPPLY CHAIN MANAGEMENT

## INTRODUCTION TO BUSINESS AND MARKETING

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-10

**Prerequisite:** None

Business and Marketing Principles is designed to provide students with a basic understanding of the business and economic environment in roles as a consumer, worker, and citizen. Course content includes money and banking, credit, budgeting, career development, communication, entrepreneurship, goal setting, and time management.

## SUPPLY CHAIN MANAGEMENT I: PRINCIPLES AND FOUNDATIONS

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 10-11

**Prerequisite:** Introduction to Business and Marketing

Supply Chain Management I: Foundations & Principles exposes students to careers and businesses involved in the planning, management, and movement of people, materials, and products by road, air, rail, pipeline, and water. As an introduction to this important and globally evolving field, this course covers the basic principles of logistics, reviews the history and development of distribution networks, and examines how they function within the dynamics of the supply chain. Upon completion of this course, proficient students will explore career options; demonstrate an understanding of the historical, current, and future significance of supply chain industries; and plan for the effective and efficient flow of goods and services. This course will require extensive Microsoft Office applications including but not limited to PowerPoint creation; use of templates; spreadsheet manipulations; and designing of charts, graphs, formulas, and tables.



## **SUPPLY CHAIN MANAGEMENT I, II, III, AND IV DUAL ENROLLMENT**

**Credits:** 0.50

**Number of Semesters:** 1

**Grade Level:** 11-12

**Prerequisite:** Introduction to Business and Marketing and Supply Chain Management I

These courses will be offered through Southwest TN Community College. The objective of this course is for each student to know the elements of Supply Chain Management, including, but not limited to the following areas: supply chain management and logistics strategy, supply chain management and logistics in a competitive context, customer service, functional excellence, supply chain techniques to achieve excellence, and future supply chain trends and issues.

## **HEALTH SCIENCE EDUCATION**

### **HEALTH SCIENCE EDUCATION**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-10

**Prerequisite:** None

Health Science Education is an introductory course designed to prepare students to pursue careers in the fields of public health, medical therapeutics, health informatics, diagnostics, and support services. Upon completion of this course, a proficient student will be able to identify careers in these fields, compare and contrast the features of healthcare systems, explain the legal and ethical ramifications of the healthcare setting, and begin to perform foundational healthcare skills. This course will serve as a strong foundation for all of the Health Science programs of study. This is the foundational course in all programs of study in the Health Science career cluster.

### **ANATOMY AND PHYSIOLOGY-CTE**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 10-12

**Prerequisite:** Health Science Education

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

### **MEDICAL THERAPEUTICS**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 11-12

**Prerequisites:** Health Science Education and Anatomy and Physiology

Medical Therapeutics is an applied course designed to prepare students to pursue careers in therapeutic services. Upon completion of this course, a proficient student will be able to identify careers in therapeutics services; assess, monitor, evaluate, and report patient/client health status; and identify the purpose and components of treatments.

### **CLINICAL INTERNSHIP**

**Credits:** 2.00

**Number of Semesters:** 2

**Grade Level:** 12

**Prerequisites:** Health Science Education, Anatomy and Physiology, Medical Therapeutics, and application

Internship is a capstone course and work-based learning experience designed to provide students with real-world application of skills and knowledge obtained in pre-requisite Health Science courses. Upon completion of this course, proficient students will be able to pursue certification in Medical Assisting. Prior to beginning work at a clinical site, students must be certified in Basic Life Support (BLS), Cardiopulmonary Resuscitation (CPR), and deemed competent in basic first aid, body mechanics, Standard Precaution guidelines, and confidentiality. This class is limited to fifteen students. There is an application process for this class and students will be selected based on GPA in health science courses, attendance, discipline and course prerequisites. **Students will be required to buy uniforms and supplies.** Upon graduation, students who complete the Health Science Program (4 classes) will be eligible to take the following certification exams: Certified Pharmacy Technician, Certified Medical Assistant, and EKG Technician.

# COSMETOLOGY

## COSMETOLOGY I

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-10

**Prerequisite:** none

Cosmetology I is an introductory course that focuses on the fundamental skills needed to become a licensed cosmetologist. Cosmetology skills inspire and motivate the expression of creativity through diligent study and ardent practice to acquire the fundamentals in theory and practical hands-on application. Laboratory facilities simulate those found in the cosmetology industry. Students are required at registration to purchase a Cosmetology Kit at a cost of approximately \$250.00, as well as additional mannequin heads for approximately \$40.00 each. Excessive absences can result in removal from the cosmetology program.

## COSMETOLOGY II

**Credits:** 2.00

**Number of Semesters:** 2

**Grade Level:** 10-11

**Prerequisite:** Cosmetology I

Cosmetology II prepares students for work-related skills in both theory and practical applications. Advanced skills in hair design, nail artistry, and cosmetic applications are practiced as in the cosmetology industry. Upon completion of two hundred hours, students begin practicing skills on clientele. The approach to training is stressed with a firm theoretical knowledge of cosmetology for the development of a true professional. Students are required to pay all fees prior to the first day of classes and to purchase additional supplies as necessary. Excessive absences can result in removal from the cosmetology program.

## COSMETOLOGY III

**Credits:** 2.00

**Number of Semesters:** 2

**Grade Level:** 11-12

**Prerequisites:** Cosmetology II

Chemistry of Cosmetology is a two-period course that engages students in the application of knowledge and provides additional experience and greater comprehension of cosmetology through theory and practical classes. Subjects such as the hairdresser-customer relationship, salesmanship, professional attitudes, the latest haircuts, advanced comb-out techniques, pressing and Marcel curling, blow styling, beauty salon business, permanent waving, and nail care are covered in these classes. As students progress through the training and become proficient in hairdressing procedures, the clinical experiences become more salon oriented.

## COSMETOLOGY IV

**Credits:** 2.00

**Number of Semesters:** 2

**Grade Level:** 12

**Prerequisites:** Cosmetology III

Cosmetology IV is the capstone course in the Cosmetology program of study intended to prepare students for careers in cosmetology by developing an understanding and practical skills in efficient and safe work practices, career and business analysis, advanced hair techniques and chemical services, and state board theoretical and practical application.

# NETWORKING SYSTEMS

## COMPUTER SCIENCE FOUNDATIONS

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-10

**Prerequisite:** None

This course is designed to prepare students with work-related skills for advancement in the telecommunication and information technology career paths. Content provides students the opportunity to acquire basic foundational knowledge and skills in both theory and practical applications in direct current, alternating current, and power supply circuits. Course content includes fundamentals of networking concepts for personal computers (PC), networking, determining system requirements, setting up equipment, and performing installation tests for the end user. This course also satisfies the computer science requirement for graduation beginning with the class of 2028.

## COMPUTER SYSTEMS

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 10-11

**Prerequisites:** Information Technology Foundations

This course is designed to allow students to develop work-related skills and prepare for certification in the computer architecture career path. Content provides students the opportunity to acquire knowledge and skill in both theory and practical applications pertaining to troubleshooting, replacing, installing, and upgrading computers. Procedures used in the course may be hardware oriented, software oriented or programming oriented.

## NETWORKING

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 11-12

**Prerequisite:** Computer Systems

Networking stresses the conceptual and practical skills necessary to design and manage networks. Course content is project-based and allows students to interconnect workstations, peripherals, terminals, and other networking devices to create an integrated system where all devices speak the same language or protocol. The course prepares students to design, build, and maintain computer networks. The networking sub-cluster helps prepare students for the Network Certification Exam.

## NETWORKING I AND II DUAL ENROLLMENT

**Credits:** 1.00

**Number of Semesters:** 1

**Grade Level:** 11-12

**Prerequisite:** Computer Science Foundations and Computer Systems

This course will be offered through Southwest TN Community College. This program is designed to consist of a combination of job simulated and live projects providing the student with real "hands-on" learning experiences. Students will be provided with first-hand knowledge of the software, hardware, and operation of computers, network devices, wireless, and other advanced technology used in industry today. Students must maintain a cumulative grade average of 2.75 GPA to continue to meet eligibility requirements. Students who do not maintain the required grade average may be permitted to re-enroll at SWTCC and will be required to pay the assessed tuition/fees. Students who do not meet Dual Enrollment grant eligibility requirements may still dual enroll, but they would be responsible for the tuition/fees.

## CABLING AND INTERNETWORKING

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 11-12

**Prerequisite:** Networking

Cabling Technology is part of the information technology infrastructure sub-cluster and is designed to equip technicians with the fundamental knowledge, skills, and abilities necessary to install, troubleshoot, and maintain today's networks. Course content presents the principles that govern the architecture and design of systems and networks for connectivity of video, voice, and data communications. Course content and skill development are delivered by the use of training centers and training aids in the class laboratory.

## **CYBERSECURITY**

### **COMPUTER SCIENCE FOUNDATIONS**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-10

**Prerequisite:** None

This course is designed to prepare students with work-related skills for advancement in the telecommunication and information technology career paths. Content provides students the opportunity to acquire basic foundational knowledge and skills in both theory and practical applications in direct current, alternating current, and power supply circuits. Course content includes fundamentals of networking concepts for personal computers (PC), networking, determining system requirements, setting up equipment, and performing installation tests for the end user. This course also satisfies the computer science requirement for graduation beginning with the class of 2028.

### **CYBERSECURITY I**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 10-11

**Prerequisite:** Computer Science Foundations

Cybersecurity I is a course intended to teach students the basic concepts of cybersecurity. The course places an emphasis on security integration, application of cybersecurity practices and devices, ethics, and best practices management. The fundamental skills in this course cover both in house and external threats to network security and design, how to enforce network level security policies, and how to safeguard an organization's information. Upon completion of this course, proficient students will demonstrate and understanding of cybersecurity concepts, identify fundamental principles of networking systems, understand network infrastructure and network security, and be able to demonstrate how to implement various aspects of security within a networking system.

### **CYBERSECURITY I, II, III, AND IV DUAL ENROLLMENT**

**Credits:** 1.00

**Number of Semesters:** 1

**Grade Level:** 11-12

**Prerequisite:** Computer Science Foundations and Cybersecurity I

These courses are offered through Tennessee College of Applied Technology (TCAT) and are courses intended to teach students the basic concepts of cybersecurity. The courses place an emphasis on security integration, application of cybersecurity practices and devices, ethics, and best practices management. The fundamental skills in these courses cover both in-house and external threats to network security and design, how to enforce network-level security policies, and how to safeguard an organization's information. Upon completion of these courses, proficient students will demonstrate an understanding of cybersecurity concepts, identify fundamental principles of networking systems, understand network infrastructure and network security, and be able to demonstrate how to implement various aspects of security within a networking system.

## **LAW, PUBLIC SAFETY, CORRECTIONS, AND SECURITY**

### **CRIMINAL JUSTICE I**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-10

**Prerequisite:** None

Criminal Justice I is the first level of study of criminal justice careers. It will prepare students for work-related knowledge and skills for advancement into the second level of criminal justice careers. Course content focuses on areas comprised of the three components of the criminal justice system: the police, courts, and corrections. The course is an overview of the criminal justice system and builds a better understanding of the development of laws and history on the state and federal levels. New technology and career opportunities in criminal justice are an integral part of the course content.

### **CRIMINAL JUSTICE II STATE DUAL CREDIT**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 10-12

**Prerequisite:** Criminal Justice I, Completion of English I

Criminal Justice II State Dual Credit will provide students with an opportunity to explore the basic processes and principles of forensic science as it relates to criminal investigation. Students will learn the importance of the identification, collection, and processing of evidence and of its contribution to the criminal investigation. Students will learn of the legal responsibilities and challenges which the forensic investigator may encounter from initial response to the court room. Students will be required to take the challenge exam in the spring.

### **CRIMINAL JUSTICE III**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 11-12

**Prerequisite:** Criminal Justice I and II

Criminal Justice III will offer an in-depth study of criminal justice in which current criminal justice career issues will be discussed and debated. Local, state, federal, and international laws will be analyzed. Subject matter will include a comparison of the criminal justice careers in the United States with other countries. Students will have opportunities to participate in mock trials and field trips with criminal justice careers emphasis. Course content will introduce new technology, effects of forensic analysis, and career opportunities. The course content will include information for planning, managing, and providing judicial, criminal justices.

### **UNMANNED AIRCRAFT SYSTEMS**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 11-12

**Prerequisite:** Criminal Justice III

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

### **CRIMINAL JUSTICE I AND II DUAL ENROLLMENT**

**Credits:** 0.50

**Number of Semesters:** 1

**Grade Level:** 12

**Prerequisite:** Criminal Justice I, II, and III

These courses will be offered through Southwest TN Community College.

#### **CRMJ 1010 Introduction to Criminal Justice**

This course objective is for a student to examine policing, corrections, and the American court system, amongst other topics. The student gains an understanding of the complexity of the criminal justice processes, its lack of central coordination and most significantly, how justice is administered in the American society.

#### **CRMJ 1020 Introduction to the Legal Process**

This course reviews basic laws governing the maintenance of a democratic society and how criminal and constitutional laws meet the challenge of American society.

## **STEM**

### **STEM I: FOUNDATION**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-10

**Prerequisites:** None

STEM I Foundation is a foundational course in the STEM cluster for students interested in learning more about careers in science, technology, engineering, and mathematics. This course covers basic skills required for STEM fields of study. Upon completion of this course, proficient students are able to identify and explain the steps in both the

engineering design and the scientific inquiry processes. Students will conduct research to develop meaningful questions, define solutions, and conduct basic math modeling and data analysis.

### **STEM II: APPLICATIONS**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 10-12

**Prerequisites:** STEM I Foundation, Algebra I, Geometry

STEM II Applications is a project-based learning experience for students who wish to develop a technical background in electronics, digital electronics and circuit design. This course challenges students to mathematically design, build, test and experiment with basic integrated circuits used to build electronic devices and computers. Students will apply the engineering design model to building and soldering projects to create temperature circuitry, timing circuits and basic logic circuits, used to make electronic devices or computers.

### **STEM III: STEM IN CONTEXT**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 11-12

**Prerequisites:** STEM II and Biology or Chemistry

STEM III: Stem in Context is an applied course in the STEM career cluster which allows students to work in groups to solve a problem or answer a scientific question drawn from real-world scenarios within their schools or communities. This course builds on STEM I: Foundation and STEM II: Applications by applying scientific and engineering knowledge and skills to a team project. Upon completion of this course, proficient students will be able to effectively use skills such as project management, team communication, leadership, and decision making. They will also be able to effectively transfer the teamwork skills from the classroom to a work setting.

### **AP COMPUTER SCIENCE PRINCIPLES**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 11-12

**Prerequisites:** STEM III and/or Teacher recommendation

AP Computer Science Principles is an introductory college-level computing course. Students cultivate their understanding of computer science through working with data, collaborating to solve problems, and developing computer programs as they explore concepts like creativity, abstraction, data and information, algorithms, programming, the internet, and the global impact of computing. An AP testing fee is required. All students must participate in the College Board AP testing program.

### **STEM I and II DUAL ENROLLMENT**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 11-12

**Prerequisites:** STEM III, Teacher Recommendation, and meet the University of Memphis Dual Enrollment requirements.

DESCRIPTION TO FOLLOW

## **CODING**

### **COMPUTER SCIENCE FOUNDATIONS**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-10

**Prerequisite:** None

This course is designed to prepare students with work-related skills for advancement in the telecommunication and information technology career paths. Content provides students the opportunity to acquire basic foundational knowledge and skills in both theory and practical applications in direct current, alternating current, and power supply circuits. Course content includes fundamentals of networking concepts for personal computers (PC), networking, determining system requirements, setting up equipment, and performing installation tests for the end user. This course also satisfies the computer science requirement for graduation beginning with the class of 2028.

### **CODING I**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 10-11

**Prerequisite:** Computer Science Foundations

Coding I is a course intended to teach students the basics of computer programming. The course places emphasis on practicing standard programming techniques and learning the logic tools and methods typically used by programmers to create simple computer applications. Upon completion of this course, proficient students will be able to solve problems by planning multistep procedures; write, analyze, review, and revise programs, converting detailed information from workflow charts and diagrams into coded instructions in a computer language; and will be able to troubleshoot/debug programs and software applications to correct malfunctions and ensure their proper execution.

### **CODING I, II, III, AND IV DUAL ENROLLMENT**

**Credits:** 0.50

**Number of Semesters:** 1

**Grade Level:** 11-12

**Prerequisite:** Computer Science Foundations and Coding I

These courses will be offered through The University of Memphis. Overview of computer science as a field; problem-solving strategies with emphasis in fundamental programming skills, primitive data types, control structures, arrays, strings, I/O, basic recursion, documentation, testing and debugging techniques; introduction to object-oriented concepts.

## **AUTOMOTIVE COLLISION REPAIR**

### **INTRODUCTION TO COLLISION REPAIR**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-11

**Prerequisite:** None

Introduction to Collision Repair is an introductory course for auto mechanics. Students explore career opportunities and requirements of a professional service technician. Content emphasizes beginning transportation service skills and workplace success skills. Students study safety, tools, equipment, and basic technician skills. Students planning to major in auto mechanics are required by the state to successfully complete Transportation Core and Career Management Success as the first year in auto mechanics.

### **COLLISION REPAIR: NONSTRUCTURAL**

**Credits:** 2.00

**Number of Semesters:** 2

**Grade Level:** 10-12

**Prerequisite:** Introduction to Collision Repair

Collision Repair (Nonstructural) prepares students to analyze collision damage to a vehicle, determine the extent of the damage and the direction of impact, initiate an appropriate repair plan, and correctly use equipment to fit metal to a specified dimension within tolerances. Course content includes repairs to vehicle frame and glass.

### **COLLISION REPAIR: PAINTING AND REFINISHING**

**Credits:** 2:00

**Number of Semesters:** 2

**Grade Level:** 10-12

**Prerequisite:** Collision Repair Non-Structural

Painting and Refinishing is a course that prepares students to use plastics and adhesives in the repair and refinish processes and to apply automotive paint to a vehicle. Students learn to diagnose automotive paint finish problems and to perform the appropriate manufacturer-required techniques and processes to refinish the affected area or the complete vehicle. Course content provides the student with training in mixing, matching, and applying paint and finish to vehicles. Course content includes the application of plastics and adhesives in the repair and refinish processes. The course prepares students for entry-level employment and advanced training in collision repair technology, and post-secondary education. Students completing Painting and Refinishing are eligible to take the ASE written examination for Painting and Refinishing.

### **AUTOMOTIVE AND COLLISION REPAIR I, II, III, and IV DUAL ENROLLMENT**

**Credits:** 1.00

**Number of Semesters:** 1

**Grade Level:** 11-12

**Prerequisite:** None

These courses will be offered through Tennessee College of Applied Technology and the purpose is to train students for employment in the field of Collision Repair and Refinishing. Students learn to repair and refinish automobile and truck bodies. Instruction includes inspecting vehicles for damage; cutting, welding, and straightening sheet metal; and removing and replacing trim and glass. The refinishing portion offers students advanced painting techniques, single stage urethane, and base coat clear coat systems. Students must maintain a cumulative grade average of 2.75 GPA to continue to meet eligibility requirements. Students who do not maintain the required grade average may be permitted to re-enroll at TCAT and will be required to pay the assessed tuition/fees. Students who do not meet Dual Enrollment grant eligibility requirements may still dually enroll, but they would be responsible for the tuition/fees.

## **CULINARY ARTS**

### **CULINARY ARTS I**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 9-10

**Prerequisite:** None

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, as well as developing food preparation and interpersonal skills. Fundamental techniques and skills are taught with an emphasis on safety, sanitation, and proper equipment operation and maintenance. Laboratory facilities and experiences, which simulate commercial food production and service operations, offer school-based learning opportunities. Course is lecture based with limited labs.

### **CULINARY ARTS II**

**Credits:** 1.00

**Number of Semesters:** 2

**Grade Level:** 10-11

**Prerequisite:** Culinary Arts I

Culinary Arts II is the second level of Culinary Arts and prepares students for gainful employment and/or entry into post-secondary education in the food production and service industry. Content provides students the opportunity to acquire marketable skills by demonstrating the principles of safety and sanitation, food preparation skills, and teamwork to manage an environment conducive to quality food production and service operations. Laboratory facilities and experiences, which simulate commercial food production and service operations, offer school-based learning and work-based learning opportunities. Course is lab concentrated.

### **CULINARY ARTS III**

**Credits:** 2.00

**Number of Semesters:** 2

**Grade Level:** 11-12

**Prerequisite:** Culinary Arts I and II

Culinary Arts III is the third level of Culinary Arts. It prepares students for gainful employment and/or entry into post-secondary education in the food production and service industry. Content provides students the opportunity to apply the marketable culinary arts skills they have acquired by assuming increasingly responsible positions including participation in a cooperative education experience.

### **CULINARY ARTS I and II DUAL ENROLLMENT**

**Credits:** 1.00

**Number of Semesters:** 1

**Grade Level:** 12

**Prerequisite:** Culinary Arts I, II, III and a minimum ACT composite score of 19 and recommendation from current teacher.



This course will provide the student with a cursory understanding of fundamental culinary theory and techniques, by exposing the student to the basic principles of culinary arts. The primary goal of this class is to acquire the culinary skills needed for success in a career as a food service professional. Skills practiced will include basic kitchen safety and sanitation, knife skills, stock production, soups, sauces, breakfast cooking, and fresh pasta. The course also provides an overview of basic culinary units of measure, culinary history, and professionalism in the culinary industry.

## **WELDING**

### **PRINCIPLES OF MANUFACTURING**

**Credits:** 1:00

**Number of Semesters:** 2

**Grade Level:** 9-10

**Prerequisite:** None

Principles of Manufacturing is designed to provide students with exposure to various occupations and pathways in the Advanced Manufacturing career cluster, such as Machining Technology, Industrial Maintenance Technology, Mechatronics, and Welding. To gain a holistic view of the advanced manufacturing industry, students will complete all core standards, as well as standards in two focus areas. Throughout the course, they will develop an understanding of the general steps involved in the manufacturing process and master the essential skills to be an effective team member in a manufacturing production setting. Course content covers basic quality principles and processes, blueprints and schematics, and systems. Upon completion of this course, proficient students will advance from this course with a nuanced understanding of how manufacturing combines design and engineering, materials science, process technology, and quality. Upon completion of the Principles of Manufacturing course, students will be prepared to make an informed decision regarding which Advanced Manufacturing program of study to pursue.

### **WELDING I**

**Credits:** 1:00

**Number of Semesters:** 2

**Grade Level:** 10-11

**Prerequisite:** Principles of Manufacturing

Welding I is designed to provide students with the skills and knowledge to effectively perform cutting and welding applications used in the advanced manufacturing industry. Proficient students will develop proficiency in fundamental safety practices in welding, interpreting drawings, creating computer aided drawings, identifying and using joint designs, efficiently laying out parts for fabrication, basic shielded metal arc welding (SMAW), mechanical and thermal properties of metals, and quality control. Upon completion of this course, proficient students will be able to sit for the AWS SENSE Entry Level Welder certification and will be prepared to undertake more advanced welding coursework.

### **WELDING I, II, III, and IV DUAL ENROLLMENT**

**Credits:** 1:00

**Number of Semesters:** 1

**Grade Level:** 11-12

**Prerequisite:** Principles of Manufacturing and Welding I

These courses will be offered through Moore Tech. This program is designed for individuals who want to become professional welders. Students are provided with the knowledge, hands-on training and confidence needed for successful employment within industry. It includes instruction in electric arc welding, plasma arc cutting, oxyacetylene cutting, oxyacetylene welding, (both ferrous, and nonferrous metals,) TIG (Tungsten Inert Gas) & MIG (Metal Inert Gas). The student is taught to identify and use various types of welding equipment, including the characteristics and techniques used in fabricating and assembling metal parts.